2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT CLOSED GYPSUM POND CROSS GENERATING STATION

by Santee Cooper
Moncks Corner, South Carolina

January 31, 2026

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 Status of the Groundwater Monitoring Program	3
	2.2.2 Key Actions Completed	3
	2.2.3 Problems Encountered	4
	2.2.4 Actions to Resolve Problems	4
	2.2.5 Project Key Activities for Upcoming Year	4
	2.3 40 CFR § 257.90(e) – Information	5
	2.3.1 40 CFR § 257.90(e)(1)	5
	2.3.2 40 CFR § 257.90(e)(2)	5
	2.3.3 40 CFR § 257.90(e)(3)	5
	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	2025 Synoptic Water Levels for Groundwater Monitoring Wells

Figure No.	Title
1	Location of Closed Gypsum Pond Groundwater Monitoring Wells for CCR Compliance
2	Potentiometric Map January 2025
3	Potentiometric Map April 2025
4	Potentiometric Map June 2025
5	Potentiometric Map November 2025

Appendix A – Statistical Analyses

Appendix B – Laboratory Analytical Results

Appendix C – Nature and Extent Characterization Report

1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2025 Annual Groundwater Monitoring Corrective Action Report for the Closed Gypsum Pond at the Cross Generating Station (CGS). This 2025 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals (CCR) from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated April 17, 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

The Closed Gypsum Pond at CGS was previously closed under state South Carolina Department of Health and Environmental Control (SCDHEC), currently South Carolina Department of Environmental Services (SCDES), regulations; however, it was an active CCR impoundment for a brief period after the effective date of the CCR Rule and therefore continues to be regulated under the CCR Rule. As background, Santee Cooper filed a Notice of Intent with SCDES on March 10, 2016, to initiate closure of the Gypsum Pond, a permitted industrial wastewater pond. The SCDES-approved closure plan met the requirements of § 257.102(b) and as of October 17, 2016, Santee Cooper had removed all CCR material and a layer of subsurface soils from the Gypsum Pond. On March 22, 2017, SCDES formally certified state closure requirements had been met.

In accordance with § 257.90(e)(6), an overview of the 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, 2025), Santee Cooper was monitoring groundwater in accordance with the assessment monitoring program in accordance with § 257.95. Statistics show SSLs for beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, CGYP-5, and CGYP-6 in the January event, but only in CGYP-3, CGYP-4, and CGYP-5 in June. SSLs for cobalt were found in monitoring wells CGYP-1, CGYP-5, and CGYP-6 in the January event and CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, and CGYP-7 in June. SSLs for lead were identified in monitoring well CGYP-3 in the January event and CGYP-7 in June. SSLs for lithium were found in monitoring wells CGYP-3, CGYP-4, CGYP-5, and CGYP-6 in the January event and CGYP-4 and CGYP-5 in June.

Previously, the statistical analysis of the January 2022 detection monitoring event data determined statistically significant increases (SSIs) of boron, calcium, chloride, sulfate, and total dissolved solids in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; fluoride in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; and pH in monitoring wells CGYP-2, CGYP-3, CGYP-4, and CGYP-6. Therefore, the Closed Gypsum Pond initiated an assessment monitoring program, and the notification was posted on the public CCR website on September 29, 2022. Santee Cooper performed the first assessment monitoring sampling event in June 2022, sampling for all Appendix III and Appendix IV constituents. The second assessment monitoring event was conducted in October 2022, within 90 days of the first event.

Analytical results were received and validated in December 2022 and the corresponding statistical analysis for the two assessment monitoring event results identified statistically significant levels (SSLs) of beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; cobalt in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; lead in monitoring wells CGYP-2 and CGYP-3; and lithium in monitoring wells CGYP-3, CGYP-4, and CGYP-6. Assessment monitoring results for the 2023 semi-annual sampling events resulted in the same SSLs as identified above for the October 2022 event. Therefore, an assessment of corrective measures was initiated on June 7, 2023.

An assessment of corrective measures report was prepared on October 30, 2023. Nature and Extent was the focus of this unit in 2024. Data from the nature and extent groundwater monitoring wells that were

installed for both vertical and horizontal extent in 2023 was collected, additional surface water elevations were added to the synoptic water levels, and CGYP-5 was re-incorporated into the groundwater monitoring network. Robust work was undertaken to complete cross sections for this unit and a draft Nature and Extent Report was compiled in 2024. The final report was completed in 2025 (Appendix C). To fulfill the requirement outlined in Title 40 CFR § 257.96(e) of the CCR Rule, a public meeting is planned for 2026 to discuss the assessment of potential groundwater corrective measures for the Closed Gypsum Pond. Therefore, remedy selection and implementation of remedial activities will follow the public meeting at a later date.

At the end of the current annual reporting period (December 31, 2025), the Closed Gypsum Pond is conducting assessment monitoring in accordance with § 257.95 and § 257.96 (b).

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 throughout the active life and post-closure care period of the CCR unit.

The Closed Gypsum Pond at CGS is subject to the groundwater monitoring and corrective action requirements set forth by the EPA in 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 Groundwater Monitoring and Corrective Action Report documents the activities completed in 2025 for the Closed Gypsum Pond as required by the CCR Rule Groundwater Monitoring and Corrective Action regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.95, and the status of the groundwater monitoring program, as set forth in § 257.95, is provided in this report.

2.2.1 Status of the Groundwater Monitoring Program

The groundwater monitoring program remained in assessment monitoring for the duration of 2025. A summary of the history of the evolution of the monitoring programs is provided in this section.

As required by § 257.93(h), the initial detection monitoring event was conducted in January 2022, followed by the statistical analysis to determine if SSIs of one or more of the Appendix III constituents were present downgradient of the Closed Gypsum Pond. SSIs were observed for Appendix III constituents in multiple wells per § 257.94(h); therefore, the Closed Gypsum Pond initiated an assessment monitoring program on September 29, 2022. As required by § 257.93(h)(2), the statistical analysis of the validated results for both assessment monitoring events were conducted in first quarter 2023 to establish groundwater protection standards (GWPS) and determine SSLs for the Appendix IV constituents present downgradient of the Closed Gypsum Pond. The subsequent statistical evaluation of the detected Appendix IV constituents identified SSLs, specifically beryllium, cobalt, lead, and lithium, above GWPS. Therefore, per § 257.95(g)(3), an assessment of corrective measures and nature and extent evaluation was initiated on June 7, 2023, to evaluate the horizontal and vertical nature and extent of the SSLs downgradient of the CGS Closed Gypsum Pond. An assessment of corrective measures report was completed on October 30, 2023. To fulfill the requirement outlined in § 257.96, a public meeting is to be planned for 2026 with remedy selection to follow at a later date. Progress reports were published in May and November 2025.

The statistical analysis of Appendix IV constituents was conducted within 90 days of completing each semi-annual sampling and analysis event in 2025 and it was determined that SSLs of beryllium, cobalt, lead, and lithium continue to be present downgradient of the Closed Gypsum Pond in wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, CGYP-6, and CGYP-7. There is no maximum contaminant level (MCL) for cobalt and elevated levels of cobalt were not identified in the background wells; therefore, the GWPS for cobalt is set at the regional screening level (RSL). The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the monitoring events of 2025 were compared to their respective background UTLs and GWPS (Appendix A). A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents.

2.2.2 Key Actions Completed

The following key actions were completed in 2025:

- Prepared 2024 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), 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 (January and June) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the concentrations in the facility's operating record as required by § 257.95(d)(1) (which is also consistent with § 257.98 (a)(1)). Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B.
- Completed statistical evaluations associated with the January 2025 and June 2025 sampling events to determine statistically significant exceedance of GWPS for Appendix IV constituents in accordance with § 257.93(h)(2). Statistical results are summarized in Appendix A.
- Updated the statistical upper tolerance limits for background wells PM-1 and CBW-1 after the first semi-annual sampling event of 2025 in accordance with the Unified Guidance.
- Following the data from the nature and extent groundwater monitoring wells that were installed for both vertical and horizontal extent in 2023, collected additional surface water elevations which were added to the synoptic water levels. Robust work was undertaken to complete cross sections for this unit and the draft Nature and Extent Characterization Report compiled in 2024 was reviewed and finalized in 2025 (Appendix C).
- Prepared two semi-annual Remedy Selection Progress Reports in May and November 2025, per § 257.97(a).
- The CGS Sampling and Analysis Plan was updated in 2023 to make general revisions and improvements to reflect changes in site conditions and procedures. It was revised in 2025 to reflect additional nature and extent and other groundwater monitoring wells which were subsequently incorporated into the groundwater monitoring network.
- Due to interference from construction of the CGS Effluent Limitation Guidelines treatment (ELG) facility, monitoring well CGYP-6 was relocated following the first sampling event in January 2024. Upon completion of the interfering construction activities in the area, the new replacement monitoring well CGYP-6 was installed and sampled as part of the second sampling event in June 2024. In 2025, continued baseline sampling for the replacement well, approximately quarterly.
- Previously, monitoring well CGYP-5 was reincorporated into the assessment monitoring well network based on findings from a preliminary nature and extent investigation. CGYP-5 was sampled during the January 2025 semi-annual monitoring event and data will be included in the statistical analysis. Baseline sampling of CGYP-5 will continue approximately quarterly for eight (8) independent sampling events.
- Continued with potentiometric surface characterization of the uppermost aquifer given changing site conditions by completing sitewide synoptic water level measurements on an approximately quarterly basis to further evaluate temporal changes.
- Continued to evaluate turbidity, oxidation-reduction potential, and well screen submersion trends sitewide in wells and to identify wells to be redeveloped to remove buildup of sediment fines and suspected biofouling on the well screens. A submersible camera was also used where applicable to investigate wells with unsubmerged screens prior to redevelopment.
- The CGS Groundwater Monitoring Plan was updated in December 2025 to make general revisions and improvements to reflect changes in site conditions and procedures. It will continue to be revised as necessary.

2.2.3 Problems Encountered

No problems were encountered.

2.2.4 Actions to Resolve Problems

No actions were required.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2026 will include the following:

- Prepare the 2025 annual report; place it in the record as required by § 257.105(h)(1); notify the Relevant State Director [§ 257.106(d)]; and post to the facility's publicly available CCR website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring consistent with § 257.95(d)(1) and in accordance with the CGS GMP.
- Conduct statistical analyses of semi-annual groundwater monitoring analytical results of the CCR compliance wells to determine if SSLs of the detected Appendix IV constituents are present.
- Continue potentiometric surface characterization of the uppermost aquifer given changing site conditions.
- To investigate monitored natural attenuation (MNA) demonstration as a viable remedy, conduct dissolved analysis for beryllium, cobalt, lead, and lithium and analyze soil samples collected from additional borings.
- Continue evaluating nearby hydrology to refine the understanding of the groundwater and surface water interaction. Additional piezometers may be installed in areas where no groundwater elevation data is currently available.
- Fully delineate the plume using data collected from nature and extent monitoring wells. Should data indicate the plume is not fully delineated, additional monitoring wells may be considered.
- Initiate planning a public meeting at least 30 days prior to selecting a final remedy to meet the requirements specified in 40 CFR § 257.96(e).
- Prepare the next semi-annual progress report in May 2026, if needed.
- In 2026, wells will be further evaluated. If improvement is still not made, then more aggressive development methods (both mechanical and chemical) may be conducted and reported in the 2026 Annual Report.
- Update the CGS Statistical Data Analysis Plan.

2.3 40 CFR § 257.90(e) – Information

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

2.3.1 40 CFR § 257.90(e)(1)

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

As required by § 257.90(e)(1), a map showing the location of the Closed Gypsum Pond and associated upgradient and downgradient wells is presented as Figure 1.

2.3.2 40 CFR § 257.90(e)(2)

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

No monitoring wells were installed or decommissioned in 2025.

2.3.3 40 CFR § 257.90(e)(3)

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

In accordance with § 257.94(b), at least two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection, and monitoring data obtained for the groundwater monitoring program for the Closed Gypsum Pond is presented in Table 1 of this report. In addition, as required by § 257.95(d)(3), Table 1 includes the GWPS established under § 257.95(d)(2). Laboratory analytical data reports, along with field sampling forms, are provided in Appendix B to this report.

2.3.4 40 CFR § 257.90(e)(4)

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

The groundwater monitoring program is in the process of transitioning from assessment monitoring to corrective action. A summary of the evolution of the monitoring programs is provided in this section. Statistical memos are provided in Appendix A.

Following eight rounds of baseline sampling and one round of detection monitoring from the original monitoring wells (CGYP-1, CGYP-2, and CGYP-3) in 2020, the monitoring well network was updated with additional monitoring wells to ensure ongoing compliance with § 257.91(c). Synoptic water levels in one monitoring well (CGYP-3) indicated that groundwater flow directions were not consistent. Flow directions in CGYP-3 fluctuate between downgradient and side gradient of the Closed Gypsum Pond; therefore, the original monitoring network for the Closed Gypsum Pond was supplemented with three additional monitoring wells (CGYP-4, CGYP-5, and CGYP-6).

In 2021, Santee Cooper concluded that analytical results from monitoring well CGYP-5 were not representative of groundwater quality associated with the Closed Gypsum Pond and therefore monitoring well CGYP-5 was removed from the monitoring network for analytical requirements but remained used

for evaluating the potentiometric surface. Upon further investigation and analytical results from the nature and extent investigations, CGYP-5 has been added back into the groundwater monitoring network.

As required by § 257.91 and § 257.94, the sample concentrations from the downgradient wells for each of the detected Appendix III constituents from the January 2022 detection monitoring event were compared to their respective background values. SSIs were identified for boron, calcium, chloride, sulfate, and total dissolved solids in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; fluoride in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; and pH in monitoring wells CGYP-2, CGYP-3, CGYP-4, and CGYP-6. Therefore, the Closed Gypsum Pond initiated an assessment monitoring program on September 29, 2022.

Santee Cooper performed the first assessment monitoring event in June 2022 and the second event in October 2022, sampling for all Appendix III and Appendix IV constituents. The analytical results were received and validated in December 2022 and identified statistically significant levels (SSLs) of beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, and CGYP-6; cobalt in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, and CGYP-6; lead in monitoring wells CGYP-2 and CGYP-3; and lithium in monitoring wells CGYP-3, CGYP-4, and CGYP-6. Therefore, an assessment of corrective measures was initiated on June 7, 2023. An assessment of corrective measures report was prepared on October 30, 2023.

In 2024, nature and extent investigations continued while statistics showed SSLs for beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, CGYP-6, and CGYP-7; cobalt in monitoring wells CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-6, and CGYP-7; lead in monitoring wells CGYP-2, CGYP-3 and CGYP-7; and lithium in monitoring wells CGYP-3, CGYP-4, and CGYP-6 in both the January and June events. Due to interference from construction of the CGS Effluent Limitation Guidelines treatment (ELG) facility monitoring well, CGYP-6 was relocated following the first sampling event in January 2024. Upon completion of the interfering construction activities in the area, the new replacement monitoring well CGYP-6 was installed and sampled as part of the second sampling event in June 2024. There were several recommendations included in the draft Nature and Extent Characterization Report compiled in 2024; however, ELG construction activities prohibited the implementation of some of them in 2025. Several recommendations will be considered in 2026 for continued investigation for nature and extent.

In 2025, statistics showed SSLs for beryllium in monitoring wells CGYP-1, CGYP-3, CGYP-4, CGYP-5, and CGYP-6 in the January event, but only in CGYP-3, CGYP-4, and CGYP-5 in June. SSLs for cobalt were found in monitoring wells CGYP-1, CGYP-5, and CGYP-6 in the January event and CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, and CGYP-7 in June. SSLs for lead were identified in monitoring well CGYP-3 in the January event and CGYP-7 in June. SSLs for lithium were found in monitoring wells CGYP-3, CGYP-4, CGYP-5, and CGYP-6 in the January event and CGYP-4 and CGYP-5 in June.

This CCR unit will continue groundwater monitoring in accordance with the assessment monitoring program until a final remedy is selected and the corrective action groundwater monitoring program is initiated.

2.3.5 40 CFR § 257.90(e)(5)

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

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.95 of the CCR Rule.

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

TABLES

Table 1 - Summary of Analytical Results
Cross Generating Station Closed Gypsum Pond Assessment Monitoring 2025

					Appendix III Constituents							Appendix IV Constituents																Field Parameters							
Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number		Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226	Radium 228	Radium 226/228 Combined Calculation	Selenium	Thallium	Depth to Groundwater	Groundwater Elevation	pH	Specific Conductivity	Temperature	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen
				Unit	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	SU	ug/L	ug/l	ug/L	ug/l	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	pCi/L	pCi/L	pCi/L	ug/L	ug/L	Feet	Feet	SU	uS	C	mv	NTU	ppm
				Method	EPA 6010D	EPA 6020B	EPA 300.0	EPA 300.0	EPA 300.0	SM 2540C		EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 300.0	EPA 6020B	EPA 6010D	EPA 7470	EPA 6010D	EPA 903.1 Mod	EPA 904.0	EPA 903.1 Mod	EPA 6020B	EPA 6020B						SM2580		
				GWPS/ US EPA MCL/RSL	----	----	----	4.00	----	----	----	25.0	16.0	2000	4.00	5.00	100	6.00	4.00	15.0	40.0	2.00	100	----	----	16.3	50.0	2.00	----	----	----	----	----	----	----	----
	Site Background Wells																																			
PM-1	Background	1/14/2025	AG21205		12.5	16.4	11.7	<0.10	21.4	117.5	5.2	5.6	<5.0	84	<0.5	<0.5	<5.0	1.6	<0.10	<1.0	5.05	<0.2	<5.0	0.421	0.273	0.694	<10.0	<1.0	8.46	74.78	5.2	115	17.08	8	7.9	1.54
PM-1	Background	6/2/2025	AG34934		13.4	20.3	11.2	<0.10	16.8	175.0	5.21	5.7	<5.0	86.9	<0.5	<0.5	<5.0	1.7	<0.10	<1.0	<5.0	<0.2	<5.0	0.481	0.735	1.22	<10.0	<1.0	7.62	75.62	5.21	196	22.33	31.0	0.100	0.49
PM-1	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CBW-1	Background	1/14/2025	AG21166		21.9	23.2	3.46	0.134	76.9	115	4.68	5.9	<5.0	38.3	<0.5	<0.5	<5.0	0.83	0.134	2	<5.0	<0.2	<5.0	0.142	0.981	1.12	<10.0	<1.0	10.95	74.85	4.68	147	18.05	315	0	2.9
CBW-1	Background	6/3/2025	AG34895		21.2	21.7	3.65	0.11	83.9	167.5	4.69	6	<5.0	37.9	<0.5	<0.5	<5.0	1.1	0.11	2.4	<5.0	<0.2	<5.0	0.401	0.59	0.991	<10.0	<1.0	9.97	75.83	4.69	244	24.73	277	3.3	1.81
CBW-1	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Closed Gypsum Pond Wells																																			
CGYP-1	Assessment	2/5/2025	AG21190		8120	193	502	1.18	545	1320	4.11	5.8	10.7	53.5	5.3	<0.5	<5.0	35.8	1.18	8.3	17.3	<0.2	<5.0	1.08	2.30	3.38	<10.0	<1.0	17.04	74.85	4.11	2260	22.18	118	14.9	0.85
CGYP-1	Assessment	6/5/2025	AG34926		7230	171	596	0.90	376	1410	4.33	<5.0	9.3	51.4	3.7	<0.5	<5.0	31.3	0.90	15.0	12.8	<0.2	<5.0	1.22	3.40	4.62	<10.0	<1.0	16.70	75.19	4.33	2220	21.95	168	1.10	1.1
CGYP-1	total samples				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CGYP-2	Assessment	2/4/2025	AG21191		880	149	52.5	0.979	817	1128	3.94	5.1	10.1	17.6	1.8	<0.5	<5.0	16.7	0.979	12.3	15.1	<0.2	<5.0	1.43	1.56	2.99	<10.0	<1.0	9.81	75.07	3.94	1360	21.23	255	0	0.42
CGYP-2	Duplicate	2/4/2025	AG21192		885	150	51.8	0.983	831	1115	***	5.4	9.9	17.7	1.8	<0.5	<5.0	16.5	0.983	12.4	15.3	<0.2	<5.0	0.658	1.81	2.47	<10.0	<1.0	***	***	***	***	***	***	***	***
CGYP-2	Assessment	6/5/2025	AG34927		873	170	48.2	0.68	675	1098	1.01	<5.0	10.9	16.6	1.9	<0.5	<5.0	16.2	0.68	13.4	15.6	<0.2	<5.0	0.871	2.13	3.00	<10.0	<1.0	9.45	75.43	1.01	1320	23.94	249	0	0.24
CGYP-2	Duplicate	6/5/2025	AG34928		870	170	50.5	0.67	675	1090	***	<5.0	10.7	16.6	2.0	<0.5	<5.0	16.3	0.67	13.4	15.1	<0.2	<5.0	1.00	2.09	3.09	<10.0	<1.0	***	***	***	***	***	***	***	***
CGYP-2	total samples				4	4	4	4	4	4	2	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2
CGYP-3	Assessment	2/5/2025	AG21193		12700	494	834	1.97	1070	2708	4.47	<5.0	5.7	69.9	8.7	<0.5	<5.0	46.3	1.97	6.7	28.0	<0.2	<5.0	1.09	3.66	4.75	<10.0	<1.0	8.39	75.56	4.47	3790	20.49	176	12.4	0.34
CGYP-3	Assessment	6/5/2025	AG34929		14400	488	934	1.39	801	3012	4.38	5.1	8.3	63.0	12.7	<0.5	5.5	54.5	1.39	12.0	35.6	<0.2	<5.0	2.41	3.28	5.69	<10.0	<1.0	8.06	75.89	4.38	3810	24.70	166	8.40	0.29
CGYP-3	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CGYP-4	Assessment	2/5/2025	AG21194		4250	200	257	1.46	585	1130	3.72	5.7	<5.0	24.7	9.0	<0.5	<5.0	26.4	1.46	7.3	53.7	<0.2	<5.0	0.660	2.36	3.02	<10.0	<1.0	7.52	75.97	3.72	1780	18.20	292	0.200	0.32
CGYP-4	Assessment	6/5/2025	AG34930		4060	189	257	1.07	468	1062	3.82	<5.0	<5.0	23.7	8.8	<0.5	<5.0	25.5	1.07	7.7	50.9	<0.2	<5.0	8.19	3.46	11.7	<10.0	<1.0	7.24	76.25	3.82	1630	24.13	255	1.40	1.68
CGYP-4	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CGYP-5	Baseline	2/5/2025	AG21195		1560	169	117	0.415	427	855	4.00	5.2	<5.0	26.2	10.3	<0.5	<5.0	46.6	0.415	1.9	66.4	<0.2	<5.0	0.734	0.746	1.48	<10.0	<1.0	7.59	76.53	4.00	1160	17.65	336	4.80	3.10
CGYP-5	Baseline	5/13/2025	AG33005		1450	178	118	0.42	385	822.5	4.20	<5.0	<5.0	23.6	10.2	<0.5	<5.0	44.6	0.42	1.9	59.4	<0.2	<5.0	1.80	2.25	4.05	<10.0	<1.0	7.10	77.02	4.20	1160	21.17	261	0.5	0.65
CGYP-5	Baseline	6/11/2025	AG34931		1420	169	120	0.38	372	822.5	4.23	<5.0	<5.0	23.7	9.4	<0.5	<5.0	41.7	0.38	1.9	60.8	<0.2	<5.0	0.506	1.73	2.24	<10.0	<1.0	7.11	77.01	4.23	1410	26.35	273	3.60	0.20
CGYP-5	Baseline	11/5/2025	AG50785		1420	169	118	0.38	360	762.5	3.87	<5.0	<5.0	27.7	11.5	<0.5	<5.0	44.5	0.38	3.3	67.9	<0.2	<5.0	0.832	2.95	3.78	<10.0	<1.0	7.60	76.52	3.87	1100	24.5	376	1.8	1.55
CGYP-5	total samples				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
CGYP-6	Baseline	2/5/2025	AG21196		843	343	136	0.128	533	1448	6.53	<5.0	<5.0	85.9	<0.5	<0.5	<5.0	6.6	0.128	<1.0	15.6	<0.2	<5.0	0.835	0.994	1.83	<10.0	<1.0	8.96	74.27	6.53	1880	16.41	-15	0.700	0.58
CGYP-6	Baseline	5/13/2025	AG33006		787	347	152	0.13	584	1392	6.62	<5.0	<5.0	80.7	<0.5	<0.5	<5.0	5.5	0.13	<1.0	14	<0.200	<5.0	0.713	0.728	1.44	<10.0	<1.0	8.24	74.99	6.62	1870	20.06	-48	0	0.62
CGYP-6	Duplicate	5/13/2025	AG33007		784	342	152	0.13	537	1440	***	<5.0	<5.0	81.7	<0.5	<0.5	<5.0	5.3	0.13	<1.0	12.9	<0.200	<5.0	0.839	0.62	1.46	<10.0	<1.0	***	***	***	***	***	***	***	***
CGYP-6	Baseline	6/11/2025	AG34932		839	333	140	0.13	532	1382	6.64	<5.0	<5.0	78.3	<0.5	<0.5	<5.0	5.0	0.13	<1.0	13.9	<0.2	<5.0	0.829	1.20	2.03	<10.0	<1.0	8.25	74.98	6.64	1810	24.24	-85.0	31.3	0.27
CGYP-6	Baseline	11/5/2025	AG50786		1230	342	168	0.13	492	1362	6.46	<5.0	6.0	85.4	0.54	<0.5	<5.0	5.1	0.13	<1.0	17.8	<0.2	<5.0	0.889	0.666	1.56	<10.0	<1.0	8.30	74.93	6.46	1910	19.77	-37	4.0	1.18
CGYP-6	Duplicate	11/5/2025	AG50787		1180	340	163	0.13	492	1398	***	<5.0	5.7	84.0	<0.5	<0.5	<5.0	4.9	0.13	<1.0	16.9	<0.2	<5.0	1.3	0.781	2.08	<10.0	<1.0	***	***	***	***	***	***	***	***
CGYP-6	total samples				6	6	6	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4
CGYP-7	Baseline	2/4/2025	AG21197		8350	295	546	1.29	888	1902	4.03	5.6	15.5	24.1	4.7	<0.5	<5.0	44.9	1.29	23.5	16.6	<0.2	<5.0	1.03	4.19	5.22	<10.0	<1.0	10.36	75.01	4.03	2840	20.89	249	1.80	0.44
CGYP-7	Baseline	6/5/2025	AG34933		7800	309	27.0	0.77	698	1712	4.08	5.1	17.4	23.9	5.0	<0.5	<5.0	45.9	0.77	21.3	14.1	<0.2	<5.0	1.82	4.44	6.26	<10.0	<1.0	10.06	75.31	4.08	2490	25.68	227	1.30	0.25
CGYP-7	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CCMGP-1	CMA/NE	2/4/2025	AG21182		1270	211	171	<0.100	80.7	1045	6.72	5.3	<5.0	410	<0.5	<0.5	<5.0	<0.5	<0.100	<1.0	38.6	<0.2	<5.0	1.13	0.912	2.04	<10.0	<1.0	9.39	74.91	6.72	1200	22.42	-101	0	0.56
CCMGP-1	CMA/NE	6/5/2025	AG34911		745	173	143	<0.10	45.2	960.0	6.85	5.4	<5.0	336	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	33.0	<0.2	<5.0	1.60	0.427	2.03	<10.0	<1.0	9.11	75.19	6.85	1020	22.98	-120	11.8	0.35
CCMGP-1	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CCMGP-2	CMA/NE	2/6/2025	AG21183		794	194	177	<0.100	426	1130	5.70	5.6	5.7	42.8	<0.5	<0.5	<5.0	8.7	<0.100	<1.0	<5.0	<0.2	<5.0	0.489	1.86	2.35	<10.0	<1.0	21.97	74.76	5.70	1710	19.05	-51	0.800	4.39
CCMGP-2	CMA/NE	6/10/2025	AG34912		682	161	210	<0.10	413	965.0	5.29	<5.0	5.2	38.3	<0.5	<0.5	<5.0	24.7	<0.10	<1.0	<5.0	<0.2	<5.0	2.48	0.349	2.83	<10.0	<1.0	21.61	75.12	5.29	1500	25.25	71.0	5.40	0.36
CCMGP-2	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CCMGP-3	CMA/NE	2/4/2025	AG21184		120	126	61.1	1.59	681	925.0	4.11	<5.0	19.0	21.7	1.5	<0.5	<5.0	13.3	1.59	22.5	12.5	<0.2	<5.0	1.00	2.55	3.55	<10.0	<1.0	9.89	74.55	4.11	1150	21.02	266	7.10	0.46
CCMGP-3	CMA/NE	6/11/2025	AG34913		123	93.4	45.4	0.85	412	680.0	3.98	<5.0	12.3	17.7	1.5	<0.5	<5.0	17.2	0.85	16.1	8.07	<0.2	<5.0	2.00	1.70	3.70	<10.0	<1.0	9.31	75.13	3.98	926	20.88	223	5.30	0.44
CCMGP-3	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CCMGP-4	CMA/NE	2/4/2025	AG21185		881	195	182	0.108	20.0	947.5	6.35	5.7	<5.0	506	<0.5	<0.5	<5.0	5.3	0.108	<1.0	12.7	<0.2	<5.0	1.19	1.64	2.83	<10.0	<1.0	9.67	75.15	6.35	1270	19.02	-82	7.20	0.58
CCMGP-4	CMA/NE	6/11/2025	AG34914		920	203	211	<0.10	24.8	967.5	6.24	<5.0	<5.0	498	<0.5	<0.5	<5.0	4.0	<0.10	<1.0	13.3	<0.2	<5.0	2.09	1.25	3.34	<10.0	<1.0	9.07	75.75	6.24	1300	22.11	-29.0	2.60	0.45
CCMGP-4	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CCMGP-5	CMA/NE	2/3/2025	AG21186		17.7	69.6	26.2	<0.100	2.49	312.5	6.57	5.8	<5.0	379	<0.5	<0.5	<5.0	3.8	<0.100	<1.0	9.79	<0.2	<5.0	0.751	0.507	1.26	<10.0	<1.0	6.07	73.84	6.57	421	19.16	-8	30.0	1.41
CCMGP-5	CMA/NE	6/11/2025	AG34915		16.4	68.5	28.0	<0.10	2.20	275.0	6.39	<5.0	<5.0	360	<0.5	<0.5	<5.0	4.7	<0.10	<1.0	10.7	<0.2	<5.0	0.575	0.882	1.46	<10.0	<1.0	4.87	75.04	6.39	456	22.99	-56.0	4.90	0.34
CCMGP-5	total samples				2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Notes:

1. All groundwater samples collected from the monitoring wells were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Eurofins (Certification # 98001), Davis & Brown (Certification # 21117), Shealy Environmental Services, Inc (Certification # 32010), Test America Laboratories Inc. Savannah (Certification # 98001), Rogers & Callcot, Inc. (Certification # 23105001), and Pace Analytical Services LLC (Certification #99030).
2. All Background, Corrective Measures Assessment (CMA) / Nature & Extent (NE), & Assessment Monitoring compliance wells have been sampled to meet § 257.95 and § 257.98(a)(1).
3. Due to challenges with laboratory delays, all groundwater samples were not analyzed by a single laboratory. This accounts for the majority of the reporting limit variability. Matrix interference also contributed to variable RLs.
4. Depth to groundwater is measured below the top of the casing (btoc) to the water surface. Elevation is shown relative to mean sea level (msl).

Table 2
Cross Generating Station
2025 Synoptic Water Levels for Groundwater Monitoring Wells

		1st Event - 1/13/2025		2nd Event - 4/22/2025		3rd Event - 6/2/2025		4th Event - 11/3/2025	
Well Name	TOC Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)	Depth to Groundwater (ft btoc)	GW Elevation (ft msl)
PM-1	83.24	8.35	74.89	8.04	75.2	7.53	75.71	7.53	75.71
CBW-1	85.80	10.79	75.01	10.14	75.66	9.89	75.91	9.48	76.32
CAP-1	82.70	7.55	75.15	7.16	75.54	6.95	75.75	6.49	76.21
CAP-2	89.70	17.04	72.66	16.54	73.16	16.43	73.27	15.98	73.72
CAP-3	91.49	16.75	74.74	16.12	75.37	16.05	75.44	15.6	75.89
CAP-4	91.77	17.16	74.61	16.52	75.25	16.41	75.36	15.9	75.87
CAP-5	91.78	17.36	74.42	17.06	74.72	16.78	75.00	15.78	76
CAP-6	91.82	17.72	74.10	17.58	74.24	17.29	74.53	16.31	75.51
CAP-7	91.64	16.84	74.80	17.31	74.33	16.33	75.31	15.87	75.77
CAP-8	91.61	17.84	73.77	17.72	73.89	17.4	74.21	16.75	74.86
CAP-9	91.59	16.99	74.60	16.84	74.75	14.79	76.80	14.89	76.7
CAP-10	95.68	21.89	73.79	21.66	74.02	21.39	74.29	20.98	74.7
CAP-11	95.55	20.14	75.41	19.61	75.94	18.66	76.89	19.02	76.53
CAP-12	98.33	23.80	74.53	23.46	74.87	23.24	75.09	22.94	75.39
CAP-13	80.77	5.86	74.91	6.51	74.26	5.47	75.30	4.89	75.88
CAP-14	80.77	6.32	74.45	6.61	74.16	5.91	74.86	5.05	75.72
CCMLF-1	80.86	6.36	74.50	5.84	75.02	6.05	74.81	5.29	75.572
CCMLF-1D	80.65	6.18	74.47	5.93	74.72	5.84	74.81	5.12	75.533
CCMLF-2	84.08	10.57	73.51	9.84	74.24	10.01	74.07	8.39	75.69
POZ-3	82.61	6.87	75.74	6.86	75.75	6.47	76.14	5.84	76.77
POZ-4	82.73	7.39	75.34	7.29	75.44	6.89	75.84	5.71	77.02
POZ-5D	82.49	7.57	74.92	7.44	75.05	7.08	75.41	5.91	76.58
POZ-6	83.84	8.66	75.18	8.71	75.13	8.09	75.75	6.81	77.03
POZ-7	82.02	6.59	75.43	6.65	75.37	6.42	75.60	5.61	76.41
POZ-8	83.13	8.20	74.93	8.03	75.10	7.67	75.46	6.56	76.57
CLF1B-1	83.76	8.54	75.22	8.16	75.60	7.95	75.81	7.39	76.37
CLF1B-2	82.04	6.87	75.17	6.61	75.43	6.36	75.68	5.75	76.29
CLF1B-3	82.75	7.84	74.91	7.5	75.25	7.16	75.59	6.49	76.26
CLF1B-4	82.74	7.69	75.05	7.73	75.01	7.28	75.46	6.35	76.39
CLF1B-5	81.09	6.16	74.93	6.34	74.75	5.81	75.28	4.7	76.39
CLF1B-5D	80.93	6.37	74.56	6.52	74.41	5.96	74.97	4.99	75.94
CCMAP-1	80.21	6.71	73.50	6.85	73.36	5.83	74.38	5.02	75.19
CCMAP-2	81.24	7.86	73.38	7.39	73.85	7.16	74.08	6.89	74.35
CCMAP-3	81.91	8.07	73.84	7.96	73.95	7.63	74.28	6.95	74.96
CCMAP-4	81.83	7.29	74.54	6.99	74.84	6.74	75.09	5.65	76.18
CCMAP-5	83.71	8.80	74.91	8.60	75.11	8.23	75.48	7.38	76.33
CCMAP-6	84.41	10.46	73.95	10.74	73.67	10.16	74.25	8.94	75.47
CCMAP-7	81.57	8.09	73.48	7.6	73.97	7.45	74.12	7.24	74.33
CCMAP-8	82.89	9.07	73.82	9.17	73.72	8.71	74.18	7.39	75.5
CCMAP-9	82.51	8.47	74.04	5.63	76.88	8.15	74.36	7.08	75.43
CCMAP-10	81.80	8.10	73.70	8.34	73.46	7.77	74.03	6.51	75.29
CCMAP-11	80.29	7.19	73.10	7.41	72.88	6.59	73.70	4.76	75.53
CCMAP-12	80.58	6.64	73.94	6.73	73.85	6.28	74.30	5.62	74.96
CCMAP-13	80.11	6.38	73.73	6.29	73.82	5.67	74.44	5.31	74.8
CCMAP-14	78.64	5.10	73.54	4.79	73.85	4.51	74.13	4.41	74.23
CGYP-1	91.89	17.09	74.80	17.04	74.85	16.71	75.18	16.42	75.47
CGYP-2	84.88	9.77	75.11	9.94	74.94	9.31	75.57	9.03	75.85
CGYP-3	83.95	8.31	75.64	8.84	75.11	7.84	76.11	7.51	76.44
CGYP-4	83.49	7.79	75.70	7.83	75.66	7.11	76.38	7.00	76.49
CGYP-5	84.12	7.82	76.30	7.52	76.60	7.2	76.92	7.5	76.62
CGYP-6	83.93	8.94	74.99	8.85	75.08	8.48	75.45	8.25	75.68
CGYP-7	85.37	10.49	74.88	10.43	74.94	10.05	75.32	9.73	75.64
CGSPZ-1	83.31	8.36	74.95	8.22	75.09	7.71	75.60	7.71	75.6
CGSPZ-2	82.56	7.56	75.00	7.74	74.82	7.4	75.16	7.24	75.32
CGSPZ-3	82.85	8.59	74.26	8.8	74.05	8.03	74.82	5.84	77.01
CGSPZ-4	81.28	6.67	74.61	6.65	74.63	6.43	74.85	5.93	75.35
CGSPZ-5	80.56	7.18	73.38	7.11	73.45	6.52	74.04	5.91	74.65
CCMGP-1	84.30	7.21	77.09	9.42	74.88	9.09	75.21	8.74	75.56
CCMGP-2	96.73	22.03	74.70	21.96	74.77	21.68	75.05	21.2	75.53
CCMGP-3	84.44	9.96	74.48	9.99	74.45	9.66	74.78	9.22	75.22
CCMGP-4	84.82	9.74	75.08	9.67	75.15	9.35	75.47	9	75.82
CCMGP-5	79.91	5.81	74.10	5.76	74.15	5.4	74.51	5.14	74.77
CGS-PSE-1	-	-	75.27	-	74.95	-	74.98	-	75.27
CGS-PSE-2	-	-	76.86	-	75.80	-	75.16	-	76.86
CGS-PSE-3	-	-	76.93	-	NA	-	75.87	-	76.93
CGS-PSE-4	-	-	75.79	-	NA	-	75.48	-	75.79
CGS-PSE-5	-	-	77.67	-	77.13	-	77.70	-	77.67
CGS-PSE-6	-	-	74.53	-	74.54	-	74.50	-	74.53
CGS-PSE-7	-	-	84.36	-	85.02	-	87.65	-	84.36
CGYPSW-1-WSE	-	-	75.29	-	75.05	-	75.04	-	75.29
CGYPSW-2-WSE	-	-	75.34	-	75.19	-	75.15	-	75.34
CGYPSW-3-WSE	-	-	75.49	-	75.57	-	75.36	-	75.49
CGYPSW-4-WSE	-	-	75.89	-	75.86	-	75.69	-	75.89
CGYPSW-6-WSE	-	-	75.11	-	75.10	-	74.93	-	75.11
CGYPSW-7-WSE	-	-	75.14	-	74.91	-	74.84	-	75.14
CGYPSW-8-WSE	-	-	75.22	-	74.94	-	75.13	-	75.22
GMPSW-WET-1SWE	-	-	74.45	-	74.47	-	74.36	-	74.45
GMPSW-WET-2SWE	-	-	75.08	-	74.52	-	75.00	-	75.08
GMPSW-CPD-1SWE	-	-	78.24	-	77.76	-	77.74	-	78.24
STAFF GAUGE	-	-	75.35	-	75.65	-	75.69	-	75.86
STAFF GAUGE	-	-	NA	-	75.78	-	75.40	-	75.08

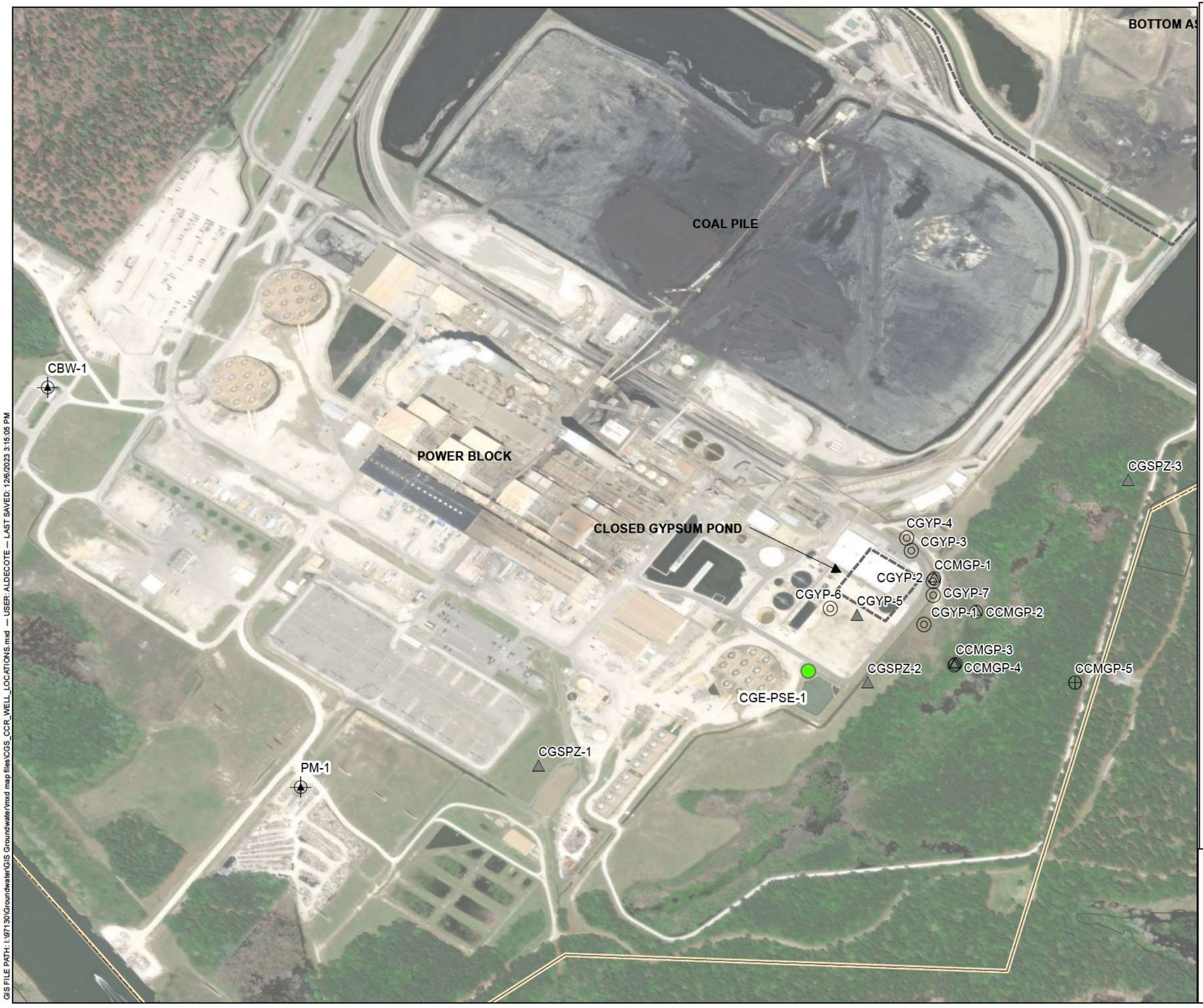
Notes:

1. Additional groundwater monitoring wells used for developmenrt of potentiometric maps. These wells monitor groundwater constituent concentrations under the SCDES NPDES Permit #SC0037401 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 the mean sea level (msl).

3. Pond surface elevations (PSE) and staff gauge elevations were collected to aid in the potentiometric surface interpretation elevation.

FIGURES



LEGEND

- BACKGROUND WELL
- CGS PIEZOMETERS
- CLOSED GYPSUM POND MONITORING WELLS
- GYPSUM POND NATURE & EXTENT WELL
- GYPSUM POND PROPERTY BOUNDARY WELL
- CCR UNIT BOUNDARY
- CROSS GENERATING STATION PROPERTY BOUNDARY
- SANTEE COOPER PROPERTY BOUNDARY
- POND WATER SURFACE ELEVATION MEASUREMENT LOCATION

NOTES:

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

N

0 500 1,000

SCALE IN FEET

SANTEE COOPER
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

LOCATION OF CLOSED GYPSUM POND GROUNDWATER MONITORING WELLS FOR CCR COMPLIANCE

JANUARY 2026

FIGURE 1

GIS FILE PATH: I:\97130\Groundwater\GIS Groundwater\mxd map files\CGS_CCR_WELL_LOCATIONS.mxd — USER: ALDECOTE — LAST SAVED: 12/6/2023 3:15:05 PM

FIGURE 1
POTENTIOMETRIC MAP
JANUARY 13, 2025
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

santee cooper®

synTerra

GRAPHIC SCALE
500 0 500 1,000
(IN FEET)

DRAWN BY: T. KING	DATE: 10/22/2021
REVISED BY: L. FOREMAN	DATE: 07/07/2025
CHECKED BY: K. FERRI	DATE: 07/07/2025
APPROVED BY: K. FERRI	DATE: 07/07/2025
PROJECT MANAGER: K. FERRI	

www.synterracorp.com

N

LAKE MARION
74.01

LAKE MOULTRIE
74.71

CCMLF-2
73.51

CCMLF-1D

CCMLF-1
74.5

STAFF GAUGE 2
DRY

STAFF GAUGE 1
75.35

CGSPZ-5
73.38

POZ-6
75.18

POZ-8

POZ-4
75.34

POZ-5D

CGSPZ-4
74.61

POZ-3
75.74

POZ-7
75.43

CLFIB-5D

CLFIB-5
74.93

CLFIB-4
75.05

CLFIB-3
74.91

CLFIB-2
75.17

CLFIB-1
75.22

CAP-14

CAP-13
74.91

CCMAP-9
74.04

CCMAP-6
73.95

CCMAP-10
73.7

CCMAP-11
73.1

CCMAP-8
73.82

CCMAP-1
73.5

CCMAP-5
74.91

CCMAP-4
74.54

CGS-PSE-4
75.79

CAP-6

CAP-5
74.42

CAP-7
74.8

CAP-4

CAP-3
74.74

CGS-PSE-5
77.67

CGS-PSE-3
76.93

CAP-8

CAP-9
74.6

CCMAP-3

CCMAP-13

CCMAP-12
73.94

CGS-PSE-2
76.86

CAP-2

CGS-PSE-7
84.36

CAP-10

CAP-1
75.15

CAP-12

CAP-11
75.41

CCMAP-7
73.48

CCMAP-14
73.54

CCMAP-2
73.38

CGSPZ-3
74.26

CCMGP-5
74.1

CGYPSW-8-WSE
75.22

CGYPSW-7-WSE
75.14

CGSPZ-1
74.95

PM-1
74.89

GMPSW-WET-2SWE
75.08

CBW-1
75.01

CGS-PSE-6
74.53

GMPSW-CPD-1SWE
78.24

CGYPSW-4-WSE
75.89

CGYP-4
75.70

CGYP-3
75.64

CGYPSW-3-WSE
75.49

CGYPSW-2-WSE
75.34

CCMGP-1

CGYP-2
75.11

CGYP-6
74.99

CGYP-5
76.30

CGYP-7
74.88

CCMGP-2
74.70

CGYPSW-1-WSE
75.29

CGYP-1
74.80

CGYPSW-6-WSE
75.11

CGSPZ-2
75.00

CCMGP-3
74.48

CGS-PSE-1
75.27

GMPSW-WET-1SWE
74.45

CCMGP-4

0.521ft/day
0.241ft/day
0.147ft/day
0.022ft/day
0.039ft/day
0.027ft/day
0.118ft/day
0.071ft/day
0.113ft/day
0.127ft/day

DIVERSION CANAL
BULLTOWN DITCH
TROJAN RD (HWY 45)
EADIE LN
VIPER RD
CLASS 2 LANDFILL
CLASS 3 LANDFILL
ROSS STATION
BOTTOM ASH POND
COAL PILE
ANGELS LANDING
HALLS SUBDIVISION
HALLS RD
CLOSED GYPSUM POND
DIVERSION CANAL ELEVATION - 68.19

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN INTERMEDIATE FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (10' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED JANUARY 13, 2025.
2. WATER LEVEL ELEVATIONS FOR LAKE MARION AND LAKE MOULTRIE WERE OBTAINED FROM USGS GAUGING STATIONS NOVEMBER 6, 2024.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED MARCH 15, 2023.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
7. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

$$V = -\frac{K}{n_e}\frac{\Delta h}{L}$$

V = AVERAGE LINEAR VELOCITY (ft/day)
K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
$\Delta h/L$ = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
K = 25 FEET PER DAY (ft/day)
n_e = 0.25

G:\0 ARCGIS PRO PROJECTS\SANTEE_COOPER\CROSS_STATION\2025\WL_UPDATE\CROSS_WL_UPDATE_2025.APRX

FIGURE 1
POTENTIOMETRIC MAP
APRIL 22, 2025
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

N

santee cooper®

synTerra

GRAPHIC SCALE
500 0 500 1,000
(IN FEET)

DRAWN BY: T. KING	DATE: 06/10/2025
REVISED BY: T. KING	DATE: 12/16/2025
CHECKED BY: K. FERRI	DATE: 12/16/2025
APPROVED BY: K. FERRI	DATE: 12/16/2025
PROJECT MANAGER: K. FERRI	

www.synterracorp.com

LAKE MARION
74.01

LAKE MOULTRIE
74.71

DIVERSION CANAL

BULLTOWN DITCH

CCMLF-2
74.24

CCMLF-1
75.02

CCMLF-1D

STAFF GAUGE 1
75.65

STAFF GAUGE 2
75.78

CGSPZ-5
73.45

POZ-6
75.13

POZ-8

POZ-4
75.44

POZ-5D

CGSPZ-4
74.63

POZ-3
75.75

CLFIB-5
74.75

CLFIB-5D

CAP-14

CAP-13
74.26

CCMAP-9
76.88

CCMAP-11
72.88

CCMAP-6
73.67

CCMAP-10
73.46

CCMAP-8
73.72

CCMAP-1
73.36

CLASS 2 LANDFILL

CLASS 3 LANDFILL

CLFIB-4
75.01

POZ-7
75.37

CLFIB-3
75.25

CCMAP-5
75.11

CCMAP-4
74.84

CGS-PSE-4
DRY*

CAP-6

CLFIB-2
75.43

CAP-5
74.72

CAP-4

CAP-7
74.33

CLFIB-1
75.60

CGS-PSE-5
77.13

CAP-3
75.37

BOTTOM ASH POND

CAP-8

CCMAP-3

CAP-9
74.75

CGS-PSE-3
DRY*

CCMAP-13

CCMAP-12
73.85

CCMAP-2
73.85

CAP-2

CGS-PSE-2
75.80

CGS-PSE-7
85.02

CAP-10

COAL PILE

CAP-1
75.54

CAP-12

DECANT POND

CCMAP-7
73.97

CCMAP-14
73.85

CGS-PSE-6
74.54

CBW-1
75.66

GMPSW-CPD-1SWE
77.76

CGSPZ-3
74.05

CAP-11
75.94

DIVERSION CANAL
69.77

CLOSED GYPSUM POND

CCMGP-5
74.15

CGYPSW-8-WSE
74.94

CGYPSW-7-WSE
74.91

PM-1
75.20

CGSPZ-1
75.09

GMPSW-WET-2SWE
74.52

CLOSED GYPSUM POND

CGYPSW-4-WSE
75.86

CGYP-4
75.66

CGYP-3
75.11

CGYPSW-3-WSE
75.57

CCMGP-1

CGYP-6
75.08

CGYP-2
74.94

CGYPSW-2-WSE
75.19

CCMGP-2
74.77

CGYP-5
76.60

CGYP-7
74.94

CGYPSW-1-WSE
75.05

CGYP-1
74.85

CCMGP-3
74.45

CGYPSW-6-WSE
75.10

CGSPZ-2
74.82

CCMGP-4

CGS-PSE-1
74.95

GMPSW-WET-1SWE
74.47

0.143ft/day
0.021ft/day
0.117ft/day
0.043ft/day
0.063ft/day
0.053ft/day
0.087ft/day
0.124ft/day
0.129ft/day
0.087ft/day

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN INTERMEDIATE FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (10' INTERVAL)
- STREAM

NOTES:

1. WATER LEVELS WERE GAUGED APRIL 22, 2025.
2. * - SURFACE WATER LOCATION WAS DRY DURING APRIL 2025 SYNOPTIC WATER LEVEL EVENT.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED MARCH 15, 2023.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
7. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

$$V = -\frac{K}{n_e}\frac{\Delta h}{L}$$

V = AVERAGE LINEAR VELOCITY (ft/day)
K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
Δh/L = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
K = 25 FEET PER DAY (ft/day)
n_e = 0.25

G:\0 ARCGIS PRO PROJECTS\SANTEE_COOPER\CROSS_STATION\2025\WL_UPDATE\CROSS_WL_UPDATE_2025.APRX

FIGURE 1
POTENTIOMETRIC MAP
JUNE 2, 2025
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

N

santee cooper®

synTerra

500 0 500 1,000
GRAPHIC SCALE (IN FEET)

DRAWN BY: T. KING	DATE: 06/10/2025
REVISED BY: C. NORRIS	DATE: 12/16/2025
CHECKED BY: K. FERRI	DATE: 12/16/2025
APPROVED BY: K. FERRI	DATE: 12/16/2025
PROJECT MANAGER: K. FERRI	

www.synterracorp.com

LAKE MARION 75.82
DIVERSION CANAL
BULLTOWN DITCH
CCMLF-2 74.07
CCMLF-1D
CCMLF-1 74.81
STAFF GAUGE 2 75.40
STAFF GAUGE 1 75.69
CGSPZ-5 74.04
POZ-6 75.75
0.013ft/day
POZ-8
0.053ft/day
CLFIB-5 75.28
CCMAP-9 74.36
CGSPZ-4 74.85
0.131ft/day
0.020ft/day
POZ-4 75.84
POZ-5D
CLFIB-5D
CAP-14
CAP-13 75.30
0.135ft/day
POZ-3 76.14
CLASS 2 LANDFILL
CLASS 3 LANDFILL
CCMAP-6 74.25
CCMAP-11 73.70
CCMAP-10 74.03
CCMAP-8 74.18
CCMAP-1 74.38
POZ-7 75.60
CLFIB-4 75.46
CLFIB-3 75.59
CGS-PSE-4 75.48
CCMAP-5 75.48
CCMAP-4 75.09
CAP-6
CAP-5 75.00
0.046ft/day
CLFIB-2 75.68
CGS-PSE-5 77.70
CAP-4
CLFIB-1 75.81
CAP-3 75.44
CGS-PSE-3 75.87
CAP-7 75.31
BOTTOM ASH POND
CCMAP-3
CCMAP-13
CCMAP-12 74.30
CAP-8
CGS-PSE-7 87.65
CGS-PSE-6 74.50
CAP-2
CGS-PSE-2 75.16
CAP-9 76.80
0.120ft/day
CCMAP-2 74.08
COAL PILE
CAP-1 75.75
CAP-10
DECANT POND
CAP-12
GMPSW-CPD-1SWE 77.74
CCMAP-7 74.12
CCMAP-14 74.13
0.182ft/day
CGSPZ-3 74.82
CAP-11 76.89
DIVERSION CANAL 69.58
CBW-1 75.91
CLOSED GYPSUM POND
0.138ft/day
CCMGP-5 74.51
CGYPSW-8-WSE 75.13
CGYPSW-7-WSE 74.84
PM-1 75.71
CGSPZ-1 75.60
GMPSW-WET-2SWE 75.00
LAKE MOULTRIE 75.70

CLOSED GYPSUM POND
CGYPSW-4-WSE 75.69
CGYP-4 76.38
CGYPSW-3-WSE 75.36
CGYP-3 76.11
CGYPSW-2-WSE 75.15
CGYP-5 76.92
CGYP-2 75.57
CGYP-7 75.32
CCMGP-1
0.136ft/day
CCMGP-2 75.05
CGYP-6 75.45
CGYPSW-1-WSE 75.04
CGYP-1 75.18
CCMGP-3 74.78
CGYPSW-6-WSE 74.93
CCMGP-4
GMPSW-WET-1SWE 74.36
CGS-PSE-1 74.98
CGSPZ-2 75.16

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN INTERMEDIATE FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (10' INTERVAL)
- STREAM

NOTES:

1. WATER LEVELS WERE GAUGED JUNE 2, 2025.
2. BOUNDARIES ARE APPROXIMATE.
3. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
4. AERIAL IMAGERY IS MAXAR IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED OCTOBER 03, 2023.
5. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
6. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

$$V = -\frac{K}{n_e}\frac{\Delta h}{L}$$

V = AVERAGE LINEAR VELOCITY (ft/day)
K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
$\Delta h/L$ = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
K = 25 FEET PER DAY (ft/day)
n_e = 0.25

PATH: G:\0 ARCGIS PRO PROJECTS\SANTEE_COOPER\CROSS_STATION\2025\WL_UPDATE\CROSS_WL_UPDATE_2025.APRX
LAYOUT NAME: FIG01_CROSS_STATION_WL_JUNE2025

FIGURE 1
POTENTIOMETRIC MAP
NOVEMBER 3, 2025
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

N

santee cooper®

synTerra

500 0 500 1,000
GRAPHIC SCALE (IN FEET)

DRAWN BY: T. KING	DATE: 06/10/2025
REVISED BY: C. NORRIS	DATE: 01/13/2026
CHECKED BY: T. GRANT	DATE: 01/13/2026
APPROVED BY: T. GRANT	DATE: 01/13/2026
PROJECT MANAGER: T. GRANT	

www.synterracorp.com

LAKE MARION 75.22
DIVERSION CANAL
BULLTOWN DITCH
CCMLF-2 75.69
CCMLF-1 75.57
CCMLF-1D
STAFF GAUGE 2 75.08
STAFF GAUGE 1 75.86
CGSPZ-5 74.65
POZ-6 77.03
POZ-4 77.02
POZ-8
POZ-5D
CLFIB-5 76.39
CLFIB-5D
CCMAP-9 75.43
CCMAP-11 75.53
CCMAP-10 75.29
CCMAP-8 75.50
CCMAP-1 75.19
CCMAP-6 75.47
CAP-14
CAP-13 75.88
CGSPZ-4 75.35
POZ-3 76.77
POZ-7 76.41
CLFIB-4 76.39
CLFIB-3 76.26
CLFIB-2 76.29
CLFIB-1 76.37
CLASS 2 LANDFILL
CLASS 3 LANDFILL
CAP-5 76.00
CGS-PSE-4 75.79
CCMAP-5 76.33
CCMAP-4 76.18
CAP-6
CAP-4
CAP-3 75.89
CAP-7 75.77
CGS-PSE-5 77.67
BOTTOM ASH POND
CAP-8
CCMAP-3
CCMAP-12 74.96
CCMAP-13
CAP-9 76.70
CGS-PSE-3 76.93
CAP-2
CGS-PSE-2 76.86
CGS-PSE-7 84.36
CAP-10
CCMAP-2 74.35
CCMAP-7 74.33
CCMAP-14 74.23
COAL PILE
CAP-1 76.21
CAP-12
DECANT POND
GMPSW-CPD-1SWE 78.24
CAP-11 76.53
CGSPZ-3 77.01
CGS-PSE-6 74.53
DIVERSION CANAL 69.06
CBW-1 76.32
CLOSED GYPSUM POND
CGSPZ-1 75.60
PM-1 75.71
CGYPSW-8-WSE 75.22
CGYPSW-7-WSE 75.14
GMPSW-WET-2SWE 75.08
CCMGP-5 74.77
LAKE MOULTRIE 75.13
0.004ft/day
0.132ft/day
0.060ft/day
0.017ft/day
0.148ft/day
0.032ft/day
0.256ft/day
0.145ft/day

CLOSED GYPSUM POND
CGYPSW-4-WSE 75.89
CGYP-4 76.49
CGYP-3 76.44
CGYPSW-3-WSE 75.49
CGYPSW-2-WSE 75.34
CGYP-5 76.62
CCMGP-1
CGYP-2 75.85
CGYP-7 75.64
0.056ft/day
CCMGP-2 75.53
CGYP-6 75.68
CGYP-1 75.47
CCMGP-3 75.22
CGYPSW-1-WSE 75.29
CCMGP-4
CGYPSW-6-WSE 75.11
CGS-PSE-1 75.27
CGSPZ-2 75.32
GMPSW-WET-1SWE 74.45

LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN INTERMEDIATE FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- SURFACE WATER SURVEY LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- SURFACE WATER FLOW DIRECTION
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- STREAM
- TOPOGRAPHIC CONTOUR (10' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED NOVEMBER 3, 2025.
2. SURVEYED SURFACE WATER ELEVATIONS FROM UNLINED WATER FEATURES ARE USED TO INFORM GROUNDWATER ELEVATION CONTOURS WHERE AVAILABLE. GROUNDWATER ELEVATIONS ARE PRIORITIZED IN CONTOURING BECAUSE SURFACE WATER ELEVATIONS MAY NOT REPRESENT WATER TABLE CONDITIONS.
3. BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL LOCATIONS PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY IS MAXAR IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED OCTOBER 03, 2023.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83). CONTOURS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
7. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.
8. SURFACE WATER LEVELS OF LAKE MOULTRIE AND LAKE MARION WERE COLLECTED FROM THE USGS MONITORING STATIONS ON THE SAME DAY AS WATER LEVELS WERE GAUGED.

$$V = -\frac{K}{n_e}\frac{\Delta h}{L}$$

V = AVERAGE LINEAR VELOCITY (ft/day)
K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
$\Delta h/L$ = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
K = 25 FEET PER DAY (ft/day)
n_e = 0.25

PATH: G:\0 ARCGIS PRO PROJECTS\SANTEE_COOPER\CROSS_STATION\2025\WL_UPDATE\CROSS_WL_UPDATE_2025.APRX
LAYOUT NAME: FIG01_CROSS_STATION_WL_NOV2025

Appendix A – Statistical Analyses

Science & Engineering Consultants
148 River St., Suite 220, Greenville, SC 29601 | 864.421.9999

TECHNICAL MEMORANDUM

Date: June 23, 2025 File: 00.5237.06

To: Brian Holmes (Santee Cooper)
Melanie Goings (Santee Cooper)

From: Kelly Ferri (SynTerra)
Scott Spinner (SynTerra)

Subject: Statistical Analysis – February 2025

INTRODUCTION

SynTerra prepared this technical memorandum to document the results of the statistical analysis performed using groundwater monitoring data through February 2025 to comply with the U.S. Environmental Protection Agency's (USEPA's) Coal Combustion Residual (CCR) Rule for the Closed Gypsum Pond at Cross Generating Station, in Pineville, South Carolina. The Closed Gypsum Pond is currently in the assessment monitoring program, in accordance with 40 Code of Federal Regulations (CFR) § 257.95.

Statistical analysis was conducted on upgradient and downgradient groundwater monitoring data in accordance with the USEPA's Unified Guidance (USEPA, 2009). Background values for Appendix III and IV constituents were updated to incorporate data from the four most recent sampling events (data through February 2025). Analytical results from upgradient background monitoring wells were used to update the comparison criteria for Appendix III constituents and to establish new Groundwater Protection Standards (GWPS) for Appendix IV constituents. Analytical results from downgradient monitoring wells were compared to background values to determine if Statistically Significant Increases (SSIs) greater than background were identified in downgradient assessment monitoring wells. For Appendix IV constituents, Lower Confidence Limits (LCLs) were used to determine if Statistically Significant Levels (SSLs) greater than GWPSs were identified in downgradient assessment monitoring wells. Results of the analysis indicate that the following CCR Rule Appendix IV constituents are at SSLs greater than GWPSs in assessment monitoring wells:

- Beryllium – CGYP-1, CGYP-3, CGYP-4, CGYP-5, and CGYP-6
- Cobalt – CGYP-1, CGYP-5, and CGYP-6
- Lead – CGYP-3
- Lithium – CGYP-3, CGYP-4, CGYP-5, and CGYP-6

The statistical approach used to evaluate groundwater monitoring data must be selected from a suite of methods provided in 40 CFR § 257.93(f) (1 through 5) and performed in accordance with a set of performance standards provided in 40 CFR § 257.93(g), as appropriate. Owners or operators of CCR units must receive certification from a qualified Professional Engineer (P.E.) indicating that the selected statistical

methods are suitable for the analysis of groundwater data as well as provide a description of the statistical methods used for analysis [40 CFR § 257.93(f)(6)]. The selected statistical method was certified by a qualified P.E. on May 20, 2020, and posted to the public website. Tolerance intervals are the selected statistical method used for evaluating groundwater data associated with the Closed Gypsum Pond. The CCR Rule assessment monitoring network for the Closed Gypsum Pond consists of the following wells:

- Upgradient background monitoring wells: CBW-1 and PM-1
- Downgradient assessment monitoring wells: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, CGYP-6, and CGYP-7

Background monitoring wells were sampled in January 2025, and downgradient assessment monitoring wells were sampled in February 2025. Both sampling events are part of the first semiannual CCR Rule monitoring event. Analytical results from January/February 2025 are provided in Table 1. Results from the statistical analysis are included in Appendices A through D.

PERFORMANCE STANDARDS

The statistical method selected to analyze groundwater monitoring data for the Closed Gypsum Pond was performed in compliance with the following performance standards, as appropriate [40 CFR § 257.93(g)]:

- Data distributions must be evaluated prior to statistical analysis. Normally distributed data will be analyzed using parametric methods. If data are non-normally distributed, mathematical functions must be applied to data in an attempt to transform data to fit the normal distribution. Non-parametric statistical analysis will be performed if transformations are unable to fit data to the normal distribution.
- If tolerance or prediction intervals are used, the selected confidence levels and coverage (for tolerance intervals) must result in the approach being at least as effective as the other methods outlined in 40 CFR § 257.93(f).
- Reporting limits used during statistical analysis must be the lowest achievable concentration within specified limits by laboratory analytical procedures and technology, and statistical tests must account for non-detect concentrations.
- Spatial and temporal variability along with temporal dependence must be corrected or controlled.

SCREENING DATA SETS FOR OUTLIERS AND DATA VARIABILITY

Outliers are values that are not representative of the population from which they were sampled, and their presence in background data sets contradicts the assumption that data are identically distributed. Prior to statistical analysis during detection and assessment monitoring, background data for each specified constituent was screened for outliers visually using box-and-whisker plots (Appendix A; USEPA, 2009). After visual assessment of background data sets for outliers, suspected outliers were evaluated and quantitatively using the Tukey's Outlier tests (USEPA, 2009). Results of the Tukey's Outlier test as scatterplots are included in Appendix A. The outlier values were reviewed to determine whether omission from the data set was warranted to maintain the overall power of the statistical method. No outliers were removed from the analysis because there were no clear sampling errors. Outliers are preserved within the overall database and will be reevaluated as new data are obtained.

A key assumption regarding groundwater monitoring data is that values are independent from time and vary randomly. No seasonal patterns or autocorrelation (*i.e.*, measurements collected at different times correlate with one another) were visually present in the data sets (Appendix A).

To evaluate how constituent concentrations in groundwater have changed over time, two-sided Mann-Kendall trend tests were conducted and Theil-Sen trendlines were calculated. The Mann-Kendall trend test is a nonparametric test for monotonic (solely decreasing or increasing) trends and identifies whether a trend exists. If the trend is statistically significant (p-value < 0.05), a Theil-Sen trendline was calculated to estimate the slope of the trend. The Theil-Sen is a robust nonparametric model of how the median (50th percentile) concentration changes linearly with time. Unlike the ordinary least squares linear model, a Theil-Sen regression does not depend on a normal distribution and is not strongly affected by outliers, making it a useful tool for environmental data. The slope of the Theil-Sen trendline provides a statistical quantification of the magnitude of a trend identified in the data.

For data sets with greater than 10 percent and less than 80 percent non-detect values, a modified version of the Theil-Sen line called the Akritas-Theil-Sen was used for trend analysis (Helsel, 2012). For data sets with more than 80 percent non-detect data or less than four detected concentrations, Mann-Kendall trend tests were not conducted and Theil-Sen trendlines were not calculated.

Time series plots that include Man Kendall trend results and Theil-Sen lines are included as Appendix B. Statistically significant trends that were identified for the background wells and the assessment monitoring wells were lower in magnitude (slope) compared to the concentrations; therefore, no data adjustments were needed.

EVALUATING DATA SET DISTRIBUTION

Many statistical tests make assumptions that rely on the tendencies of known data set distributions. Therefore, data must be assessed to determine the appropriate distribution model (*e.g.*, normal distribution) [40 CFR § 257.93(g)(1)]. After screening data sets for outliers, groundwater data were fitted to known distribution models using Goodness-of-Fit (GOF) tests. GOF tests evaluate how closely a data set resembles a distribution model. The distribution models under consideration for the determination of groundwater background values are normal, lognormal, and gamma distributions. To assess if data set distributions are normally or lognormally distributed, either the Shapiro-Wilk or Lilliefors GOF test were used. The Shapiro-Wilk GOF test was used to evaluate data sets containing 50 or fewer samples, while Lilliefors GOF test was used to evaluate data sets containing greater than 50 samples. Data sets were evaluated for gamma distribution using the Anderson-Darling test. GOF tests were performed using a significance level of 0.05. CCR Rule Appendix III parameter GOF tests for pooled background well data are provided in Appendix C.

If data sets failed to meet the tested distributional models, statistical analysis was performed using non-parametric procedures.

MANAGING NON-DETECT DATA

Concentrations between the lowest achievable value that can be quantitatively obtained by laboratory analytical procedures or technology (referred to as the reporting limit) and zero are associated with a high degree of uncertainty and are represented as non-detects. To account for non-detect values within the data set, the most recent laboratory reporting limit was used. Non-detect values greater than the

most recent reporting limit were removed from the data set, and other non-detect values were set to the most recent reporting limit.

For data sets composed of 50 percent or fewer non-detects, either the Kaplan-Meier or the robust regression on order statistics were used to adjust for non-detect values (USEPA, 2009). Both methods rely on fitting data to a known distribution model to estimate values. The Kaplan-Meier method estimates the population mean and standard deviation, whereas robust regression on order statistics estimates values that can be imputed for each non-detect value. Both Kaplan-Meier and robust regression on order statistics methods assume data can be transformed to meet a distribution model.

STATISTICAL BACKGROUND VALUES

Analytical results from CCR Rule background monitoring wells were used to establish statistical background values for the Cross Generating Station, per 40 CFR § 257.91(a)(1). Interwell tolerance intervals were used to establish background values for CCR Rule Appendix III and IV constituents, as described below.

Interwell Tolerance Intervals – Appendix III

Although statistical analysis for CCR Rule Appendix III constituents is not required during assessment monitoring, results and comparison to background values are provided for completeness. The interwell tolerance interval was selected as the statistical method used to establish background concentrations for CCR Rule Appendix III constituents. Tolerance intervals provide a range of values in which a specified proportion (referred to as coverage) of data will reside with some level of confidence. A one-sided tolerance interval is referred to as a tolerance limit. The Upper Tolerance Limit (UTL) is of interest for detection monitoring because the concern is for concentrations greater than the value, except for pH. The only CCR Rule Appendix III constituent that requires both upper and lower tolerance limits is pH, because the comparison criteria for pH is established as a range of values.

Tolerance intervals are used instead of prediction intervals to establish background concentrations for CCR Rule Appendix III constituents because:

- Resampling and retesting does not occur during detection monitoring at the facility.
- Comparisons between tolerance and prediction intervals indicate that a tolerance interval constructed using a coverage of at least 90 percent and confidence level of 95 percent yield similar power and accuracy to that of a prediction interval with a 1-of-2 retesting scheme.
- Both non-parametric prediction intervals and non-parametric tolerance intervals are often represented by the maximum concentration value within a data set.

After completing data review and preparation, the UTL was calculated for each CCR Rule Appendix III constituent by pooling results collected from background wells. To determine whether a constituent is at an SSI greater than background levels, the concentration of each CCR Rule Appendix III constituent in each waste boundary well was compared to the UTL.

The method used to calculate UTLs is dependent on the distribution of the background data set. Parametric UTLs were calculated for normal, gamma, and lognormal distributed data sets using a coverage of 95 percent and confidence interval of 95 percent. Non-parametric UTLs were calculated for non-normally distributed data sets or data sets containing more than 50 percent non-detects. Non-parametric UTLs were calculated using coverages dependent upon the sample size (n) of the data: for 10<n<30, a coverage of 85 percent; for 29<n<59, a coverage of 90 percent; and for n>59, a coverage of 95 percent. The coverages and confidence levels comply with the guidance set forth in 40 CFR § 257.93(g)(4).

The Unified Guidance recommends updating background values every four to eight sampling events (USEPA, 2009). Background values for Appendix III constituents were updated in March 2025 using groundwater data collected in CCR Rule background monitoring wells through February 2025. Previous background values and updated background values are included in Table 2. Statistical software output from ProUCL and NCSS is included in Appendix C. The output includes summary statistics and the calculated tolerance limits, which are highlighted.

Interwell Tolerance Intervals – Appendix IV

For CCR Rule Appendix IV constituents, the interwell tolerance interval was selected as the statistical method used to establish background concentrations from upgradient well data [40 CFR § 257.93(g)]. Tolerance intervals provide a range of values in which a specified proportion (referred to as coverage) of data is expected to reside with a certain level of confidence. A one-sided tolerance interval is referred to as a tolerance limit, and the UTL represents the upper end of that interval. The UTL is of interest for assessment monitoring because the concern is for constituents in downgradient groundwater monitoring wells at concentrations greater than comparison criteria. Haley and Aldrich calculated UTLs (Table 2) for Appendix IV constituents and provided the established GWPSs [40 CFR § 257.95(h)] to SynTerra for use in this report.

UTLs for each detected CCR Rule Appendix IV constituent were used to update the previously established GWPSs. If the UTL for a constituent was greater than its Maximum Contaminant Level (MCL) or the value identified in 40 CFR § 257.95(h)(2) for cobalt, lead, lithium, and molybdenum, the UTL was used to update the GWPS. If an MCL has not been established for a constituent, the GWPS is the UTL or the value identified in 40 CFR § 257.95(h)(2), whichever is greater. The updated GWPSs for arsenic, antimony, beryllium, thallium, and total radium are the UTLs. Updated GWPSs are presented in Table 3.

The Unified Guidance recommends updating background values every four to eight sampling events (USEPA, 2009). In March 2025, Haley and Aldrich updated background values for Appendix IV constituents using groundwater data collected in CCR Rule background monitoring wells through February 2025. Updated background values are included in Table 3.

STATISTICAL ANALYSIS OF DOWNGRADIENT DATA

CCR Rule Appendix III analytical results are compared to UTLs (upper and lower tolerance intervals for pH) to determine whether constituents are reported at an SSI greater than background. Bold, highlighted results in Table 4 indicate constituent concentrations at SSIs greater than background values.

CCR Rule Appendix IV constituent 95 percent confidence intervals were calculated for each downgradient well, where appropriate, using data collected in assessment monitoring through February 2025. For well-constituent pairs with statistically significant trends (Appendix D), a bootstrapped confidence interval was constructed using the Theil-Sen line. For well-constituent pairs with greater than 80 percent non-detects and less than four detects, confidence intervals were not constructed and Lower Confidence Limits (LCLs) were set to the most recent reporting limit. Well-constituent pair confidence intervals with less than or equal to 80 percent non-detects and more than four detects were calculated using their best fit data distributions (normal, gamma, lognormal, or non-parametric), similar to the tolerance limit calculations. Otherwise, central tendency values were calculated and set as the LCL.

A comparison of the 95 percent LCLs to the GWPSs is provided in Table 5. An SSL is identified when an LCL for an Appendix IV constituent is greater than its corresponding GWPS (*i.e.,* the entire confidence interval is above the GWPS).

ATTACHMENTS

Table 1	Table of Recorded Concentrations
Table 2	Appendix III Statistical Background Values
Table 3	Groundwater Protection Standards
Table 4	Appendix III Analytical Results – February 2025
Table 5	Appendix IV Lower Confidence Limits – February 2025
Appendix A	Tukey Outlier Test Results and Box & Whisker Plots
Appendix B	Time Series Plots
Appendix C	Appendix III Statistical Analysis Results
Appendix D	Appendix IV Statistical Analysis Results

REFERENCES

Helsel, D.R. (2012). *Statistics for Censored Environmental Data Using Minitab and R. 2nd Edition*, John Wiley & Sons, Hoboken, New Jersey.

USEPA. (2009). *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, March 2009.* EPA 530-R-09-007.

TABLES

TABLE 1
TABLE OF RECORDED CONCENTRATIONS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Analytical Parameter		Appendix III Parameters 40 CFR § 257.95(d)(1)							Appendix IV Parameters 40 CFR § 257.95(d)(1)														
		pH	Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Total Radium
Reporting Units		S.U.	(µg/L)	mg/L	mg/L	mg/L	mg/L	mg/L	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	mg/L	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	pCi/L
Well ID	Sampling Date	Analytical Results																					
CBW-1*	1/14/2025	4.68	21.9	23.2	3.46	0.134	76.9	115	5.9	< 5	38.3	< 0.5	< 0.5	< 5	0.83	0.134	2	< 5	< 0.2	< 5	< 10	< 1	1.12
CGYP-1	2/5/2025	4.11	8120	193	502	1.18	545	1320	5.8	10.7	53.5	5.3	< 0.5	< 5	35.8	1.18	8.3	17.3	< 0.2	< 5	< 10	< 1	3.38
CGYP-2	2/4/2025	3.94	880	149	52.5	0.979	817	1128	5.1	10.1	17.6	1.8	< 0.5	< 5	16.7	0.979	12.3	15.1	< 0.2	< 5	< 10	< 1	2.99
CGYP-3	2/5/2025	4.47	12700	494	834	1.97	1070	2708	< 5	5.7	69.9	8.7	< 0.5	< 5	46.3	1.97	6.7	28	< 0.2	< 5	< 10	< 1	4.75
CGYP-4	2/5/2025	3.72	4250	200	257	1.46	585	1130	5.7	< 5	24.7	9	< 0.5	< 5	26.4	1.46	7.3	53.7	< 0.2	< 5	< 10	< 1	3.02
CGYP-5	2/5/2025	4	1560	169	117	0.415	427	855	5.2	< 5	26.2	10.3	< 0.5	< 5	46.6	0.415	1.9	66.4	< 0.2	< 5	< 10	< 1	1.48
CGYP-6	2/5/2025	6.53	843	343	136	0.128	533	1448	< 5	< 5	85.9	< 0.5	< 0.5	< 5	6.6	0.128	< 1	15.6	< 0.2	< 5	< 10	< 1	1.83
CGYP-7	2/4/2025	4.03	8350	295	546	1.29	888	1902	5.6	15.5	24.1	4.7	< 0.5	< 5	44.9	1.29	23.5	16.6	< 0.2	< 5	< 10	< 1	5.22
PM-1*	1/14/2025	5.2	12.5	16.4	11.7	< 0.1	21.4	118	5.6	< 5	84	< 0.5	< 0.5	< 5	1.6	< 0.1	< 1	5.05	< 0.2	< 5	< 10	< 1	0.694

Prepared by: ADW Checked by: KLS

Notes:

* - Denotes a CCR Rule background monitoring well.
CGYP-6 was replaced in May 2024 to facilitate expansion of the wastewater treatment facility.
< - Concentration not detected at or above the adjusted reporting limit.
µg/L - micrograms per liters
CCR - coal combustion residuals
CFR - Code of Federal Regulations
mg/L - milligrams per liter
pCi/L - picocuries per liter
Total Radium - Radium-226 and Radium-228 combined

TABLE 2
APPENDIX III STATISTICAL BACKGROUND VALUES
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Constituent	Previous Background Values[1]	Updated Background Values[2]	Distribution	Coverage (%)
pH (standard units)	4.09 - 5.58	4.09 - 5.58	Non-Parametric	90
Boron (µg/L)	836	836	Non-Parametric	90
Calcium (mg/L)	119	42.2	Non-Parametric	90
Chloride (mg/L)	13.5	13.4	Non-Parametric	90
Fluoride (mg/L)	0.3	0.28	Normal	95
Sulfate (mg/L)	115	97.1	Non-Parametric	90
Total Dissolved Solids (mg/L)	205.3	205.1	Normal	95

Prepared by: KHF Checked by: ADW/TWL

Notes:

Background values are based on interwell upper tolerance limits (UTLs) calculated using pooled upgradient background well data. A lower tolerance limit (LTL) is also included for pH.

Background monitoring wells: CBW-1 and PM-1

For non-parametric distributions, a 90 percent (%) coverage tolerance limit was calculated due to sample sizes not being large enough for a 95% coverage tolerance limit (requires 60 samples).

Goodness of fit tests at a significance level of 0.05 were used. If the data could not be fitted to a known distribution (normal, gamma, or lognormal), non-parametric tolerance limits were calculated.

95% confidence levels were used for the tolerance limits.

[1] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through October 2022.

[2] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through February 2025.

mg/L - milligrams per liter

TABLE 3
GROUNDWATER PROTECTION STANDARDS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Constituent Name	Previous Background Values[1]	Updated Background Values[2]	MCL	CCR-Rule Specified[3]	Updated GWPS
Antimony (µg/L)	5	**25**	6	---	25
Arsenic (µg/L)	16	**16**	10	---	16
Barium (µg/L)	103	103	**2000**	---	2000
Beryllium (µg/L)	0.63	**5**	4	---	5
Cadmium (µg/L)	0.5	5	**5**	---	5
Chromium (µg/L)	14	14	**100**	---	100
Cobalt (µg/L)	3.4	5	NE	**6**	6
Fluoride (mg/L)	0.3	0.28	**4**	---	4
Lead (µg/L)	11	11	NE	**15**	15
Lithium (µg/L)	5.4	20	NE	**40**	40
Mercury (µg/L)	0.2	1	**2**	---	2
Molybdenum (µg/L)	5	20	NE	**100**	100
Selenium (µg/L)	10	50	**50**	---	50
Thallium (µg/L)	1	**10**	2	---	10
Total Radium (pCi/L)	16.3	**16.3**	5	---	16.3

Notes

Bold values represent the greater of the background values, MCL, or CCR-Rule specified values, whichever is greater.
The greatest value is the established GWPS.

[1] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through October 2022.

[2] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through February 2025.

[3] - Represents the value identified in 40 CFR § 257.95(h)(2).

Background values are based on interwell tolerance limits calculated using pooled upgradient background well data.

--- - No value specified in the CCR Rule.

CCR - Coal Combustion Residuals

GWPS - Groundwater Protection Standards

MCL - Maximum Contaminant Level

NE - not established

TABLE 4
APPENDIX III ANALYTICAL RESULTS - FEBRUARY 2025
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Analytical Parameter		pH	Boron	Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids
Reporting Units		S.U.	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Comparison Criteria		4.09 - 5.58*	0.836*	836*	42.2*	13.4*	0.28*	97.1*	205.1*
Well ID	Sample Date	Analytical Results							
CGYP-1	2/5/2025	4.11	**8.12**	**8120**	**193**	**502**	**1.18**	**545**	**1320**
CGYP-2	2/4/2025	**3.94**	**0.88**	**880**	**149**	**52.5**	**0.979**	**817**	**1128**
CGYP-3	2/5/2025	4.47	**12.7**	**12700**	**494**	**834**	**1.97**	**1070**	**2708**
CGYP-4	2/5/2025	**3.72**	**4.25**	**4250**	**200**	**257**	**1.46**	**585**	**1130**
CGYP-5	2/5/2025	**4.00**	**1.56**	**1560**	**169**	**117**	**0.415**	**427**	**855**
CGYP-6	2/5/2025	**6.53**	**0.843**	**843**	**343**	**136**	0.128	**533**	**1448**
CGYP-7	2/4/2025	**4.03**	**8.35**	**8350**	**295**	**546**	**1.29**	**888**	**1902**

Prepared by: ADW Checked by: KLS/TWL

Notes:

- Blue highlighted cells with bold values indicate the reported concentration for the Appendix III parameter is greater than the comparison criteria (for pH, greater than or less than the comparison criteria range).

* - Appendix III parameters comparison criteria are interwell tolerance limits calculated using pooled upgradient background well data.

Background monitoring wells: CBW-1 and PM-1

CGYP-6 was replaced in May 2024 to facilitate expansion of the wastewater treatment facility.

CCR - Coal Combustion Residuals

mg/L - milligrams per liter

S.U. - standard units

TABLE 5
APPENDIX IV ANALYTICAL RESULTS - FEBRUARY 2025
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Analytical Parameter	Appendix IV Parameters 40 CFR § 257.95(d)(1)														
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Total Radium
Reporting Units	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(pCi/L)
Comparison Criteria	25#	16#	2000+	5#	5+	100+	6^	4+	15^	40^	2+	100^	50+	10#	16.3#
Well ID	Analytical Results														
CGYP-1	< 5	-17.6	43.6	**5.32**	<0.5	< 5	**36.8**	0.888	-17.5	10.9	<0.2	< 5	7.07	< 1	3.62
CGYP-2	< 5	-5.03	-26.6	0.890	<0.5	< 5	-2.71	0.607	9.80	5.20	<0.2	< 5	11.2	< 1	2.24
CGYP-3	< 5	1.38	-27.1	**25.3**	0.500	5.4	-16.5	1.65	19.0	**60.3**	<0.2	< 5	< 10	< 1	4.81
CGYP-4	< 5	-4.11	-21.9	**6.15**	< 0.5	< 5	-1.10	-2.53	5.28	**54.5**	<0.2	< 5	< 10	< 1	-2.18
CGYP-5	< 5	< 5	45.1	**10.5**	< 0.5	< 5	**44.2**	0.290	1.62	**62.1**	<0.2	< 5	< 10	< 1	1.81
CGYP-6	< 5	< 5	-216	**13.1**	< 0.5	< 5	**112**	-0.210	-4.26	**93.0**	<0.2	< 5	< 10	< 1	-0.850
CGYP-7	5.2	13.8	21.6	-2.88	0.0900	< 5	-46.8	0.970	1.03	9.30	<0.2	< 5	9.90	< 1	4.79

Prepared by: ADW Checked by: KLS

Notes:

- Orange highlighted cells with bold values indicate the lower confidence limit for the Appendix IV parameter is greater than the comparison criteria.

Appendix IV confidence intervals were calculated using data collected from May 2020 through February 2025.

A statistically significant level (SSL) is only identified when the entire confidence interval is greater than the comparison criteria; therefore, lower confidence limits are presented for comparison.

Background wells: PM-1 and CBW-1

CGYP-6 was replaced in May 2024 to facilitate expansion of the wastewater treatment facility.

Upper tolerance limits for Appendix IV constituents were calculated by Haley & Aldrich.

^ - GWPS represents the value

- GWPS for the constituent is the Upper Tolerance Limit (UTL) calculated using upgradient background well data collected from October 2015 through February 2025. The UTL for the constituent is greater than the MCL.

+ - GWPS represents the USEPA Maximum Contaminant Level (MCL).

µg/L - micrograms per liter

CCR - Coal Combustion Residuals

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

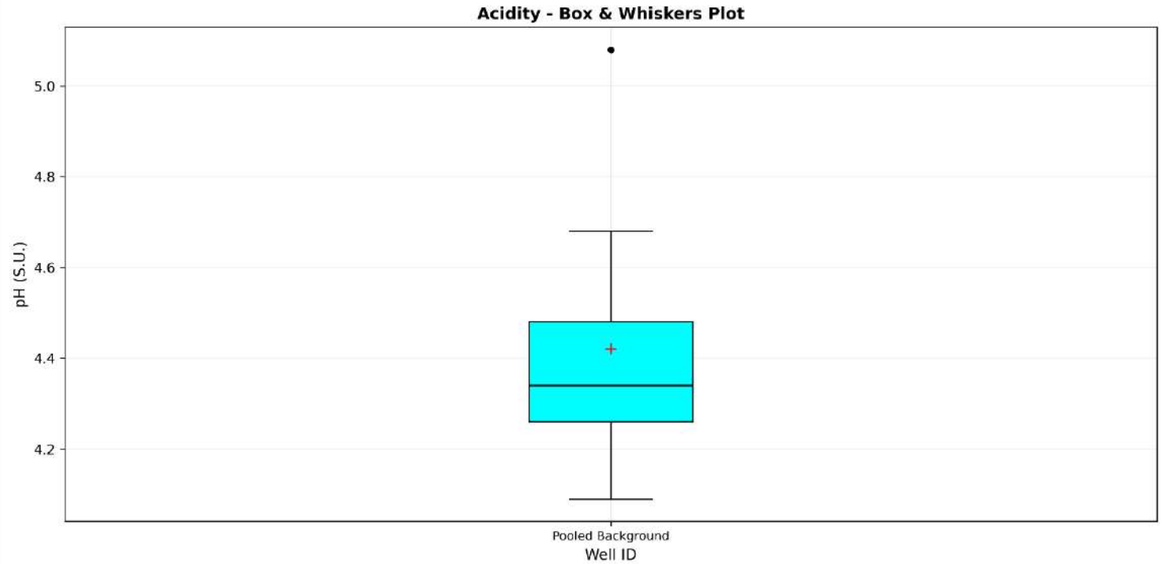
pCi/L - picocuries per liter

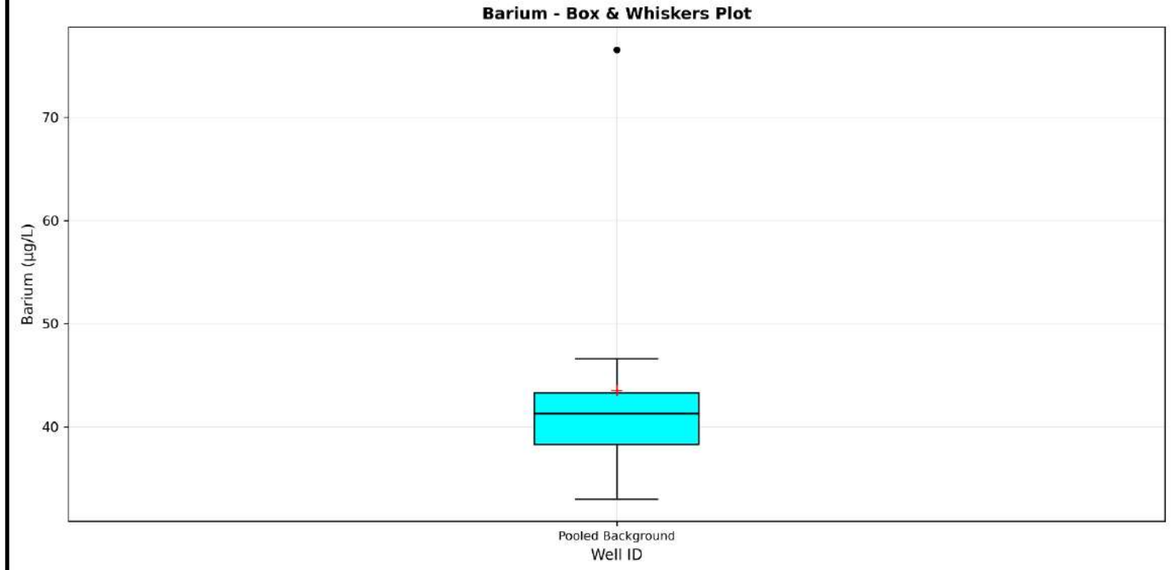
Total Radium - Radium-226 and Radium-228 combined

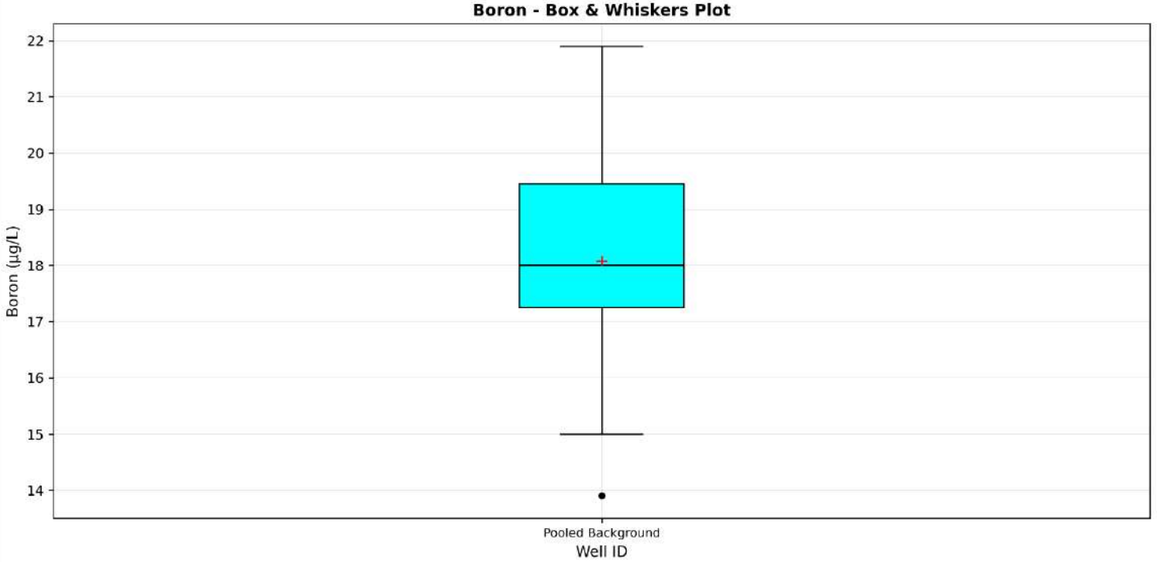
USEPA - U.S. Environmental Protection Agency

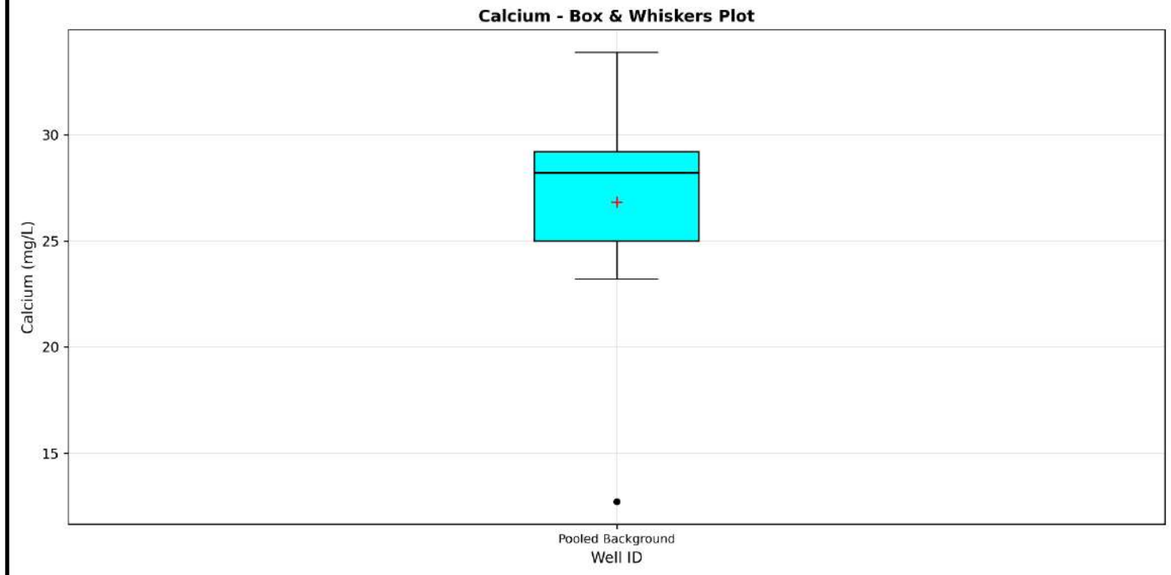
APPENDIX A

TUKEY OUTLIER TEST RESULTS AND BOX & WHISKER PLOTS









NOTES:

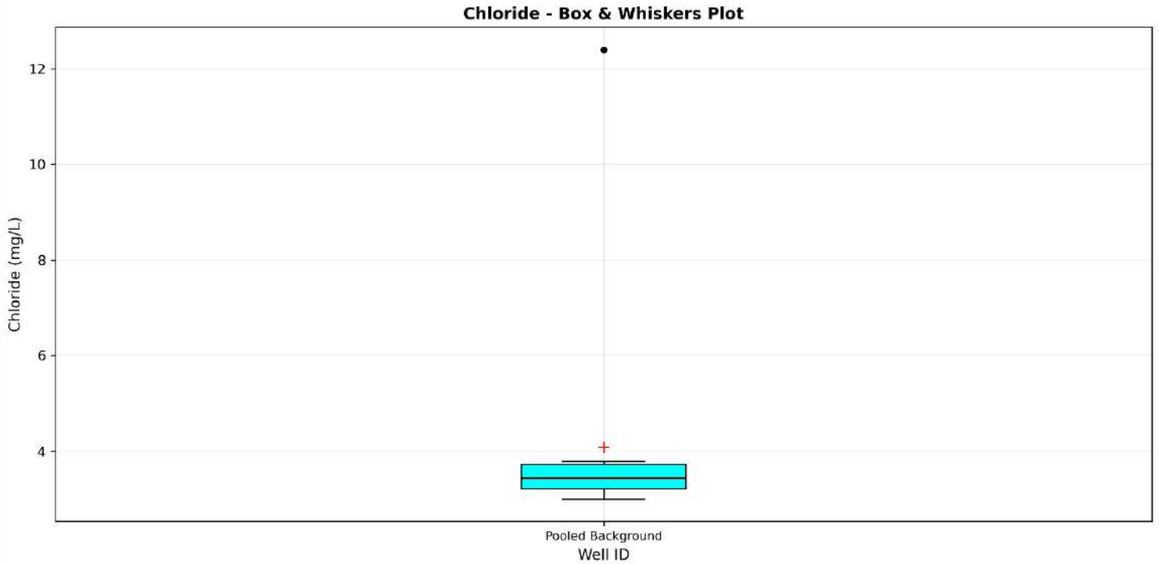
µg/L - micrograms per liter
mg/L – milligrams per liter
S.U. – standard units
CBW-1 and PM-1 are upgradient background monitoring wells.
Box and Whisker plots are not prepared for constituents where the data set consists of non-detect data.

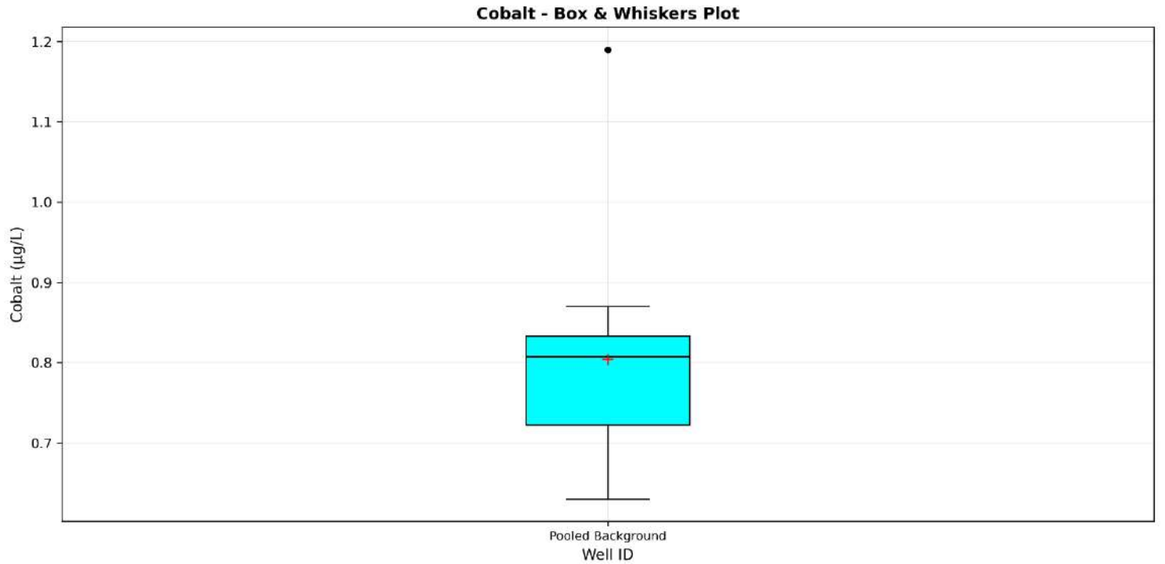
synTerra

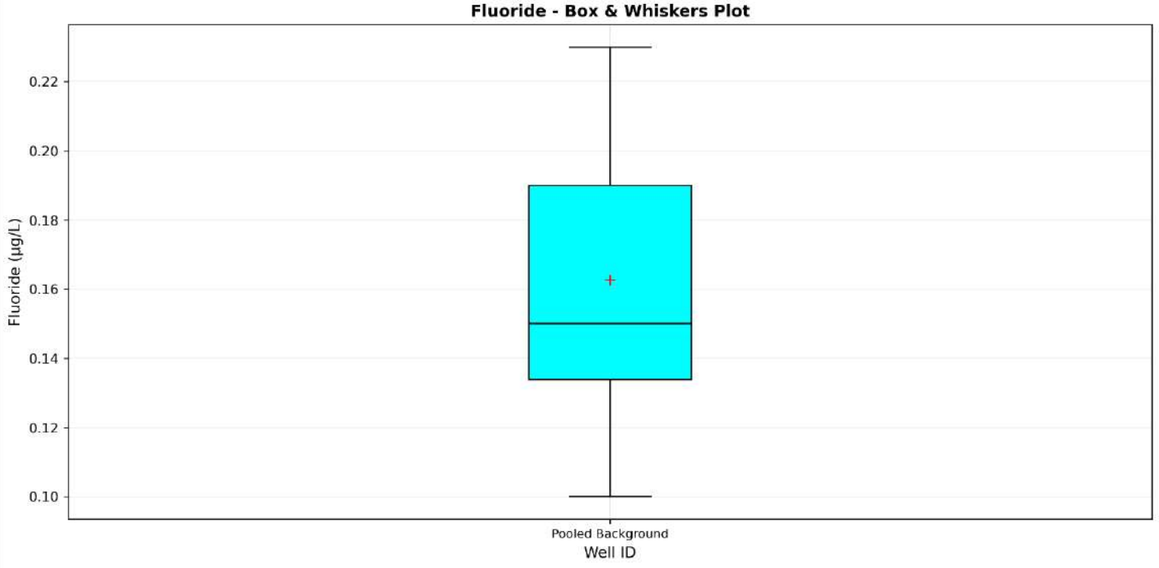
DRAWN BY: S. ROUDINI DATE: 05/28/2025
REVISED BY: K. SHECK DATE: 06/04/2025
CHECKED BY: K. FERRI DATE: 06/05/2025
APPROVED BY: K. FERRI DATE: 06/05/2025
PROJECT MANAGER: K. FERRI

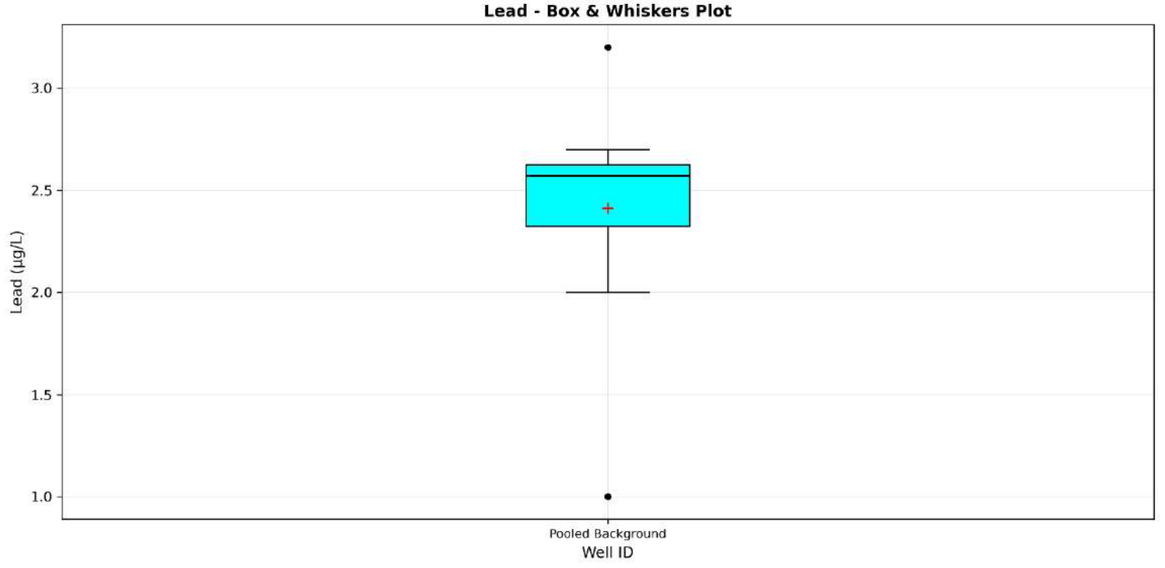
www.synterracorp.com

FIGURE 1A
BOX AND WHISKER PLOTS – POOLED BACKGROUND
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA









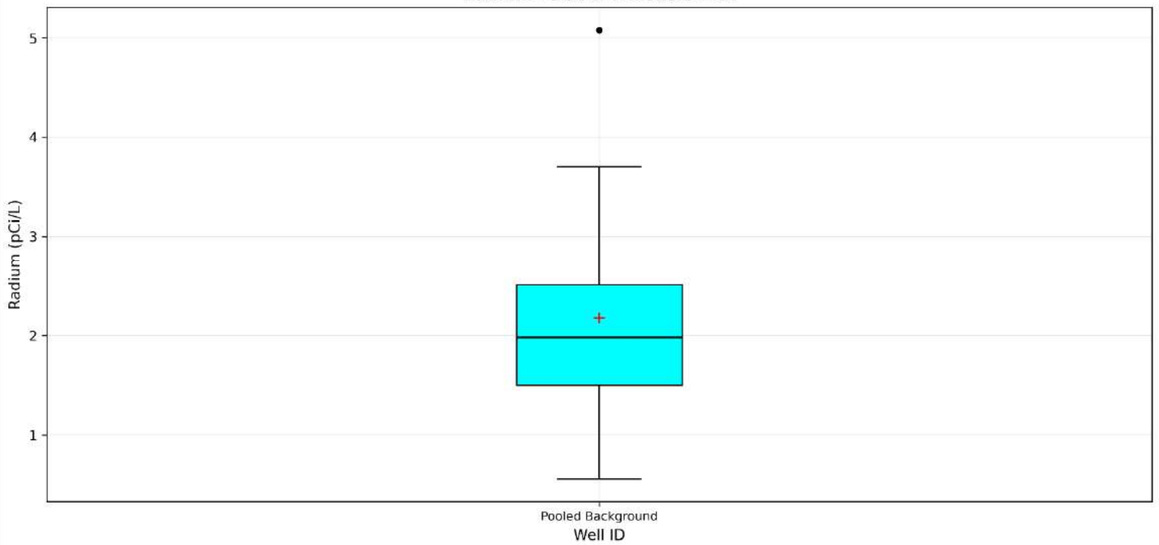
NOTES:

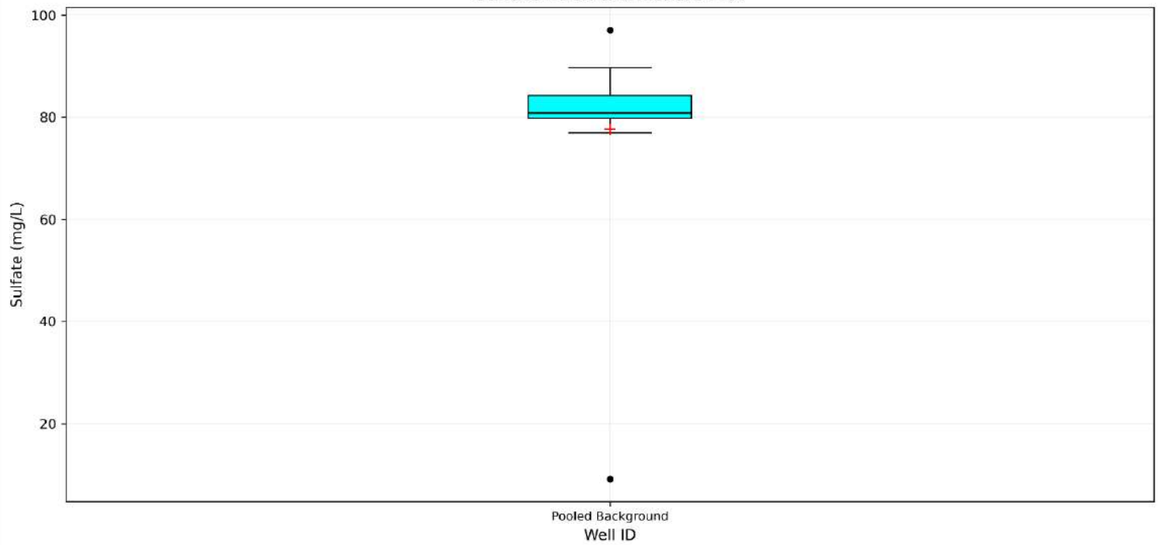
µg/L - micrograms per liter
mg/L – milligrams per liter
CBW-1 and PM-1 are upgradient background monitoring wells.
Box and Whisker plots are not prepared for constituents where the data set consists of non-detect data.

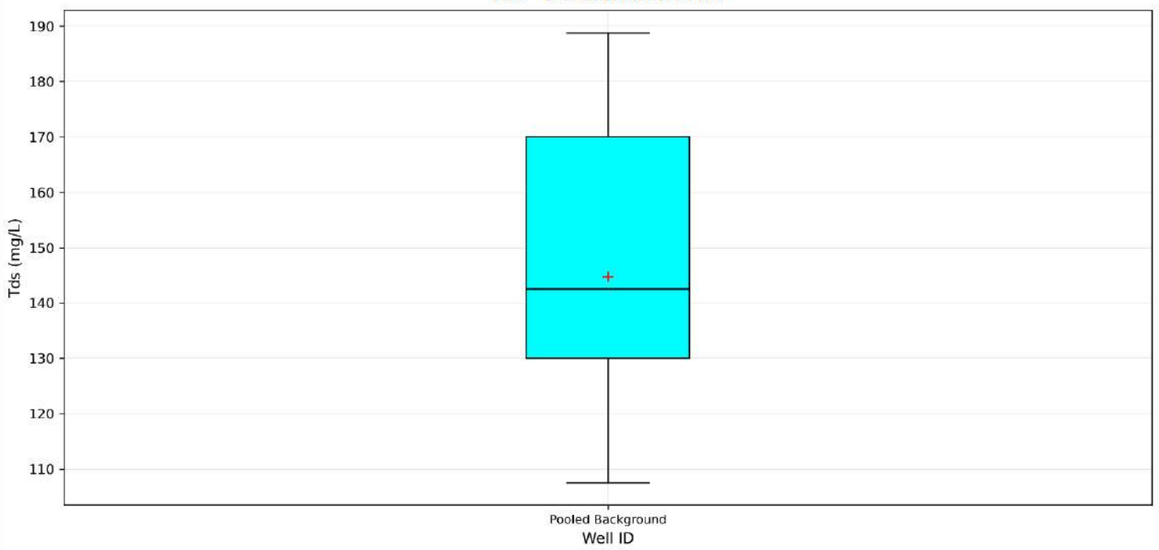
DRAWN BY: S. ROUDINI	DATE: 05/28/2025
REVISED BY: K. SHECK	DATE: 06/04/2025
CHECKED BY: K. FERRI	DATE: 06/05/2025
APPROVED BY: K. FERRI	DATE: 06/05/2025
PROJECT MANAGER: K. FERRI	

www.synterracorp.com

FIGURE 1B
BOX AND WHISKER PLOTS – POOLED BACKGROUND
STATISTICAL ANALYSIS – FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA







INTENTIONALLY LEFT BLANK

NOTES:

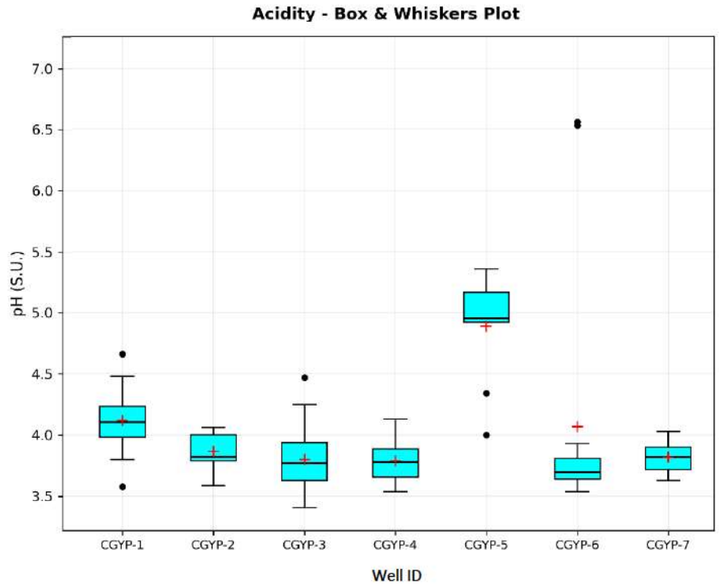
µg/L - micrograms per liter
mg/L – milligrams per liter
TDS – total dissolved solids
pCi/L – picocuries per liter
CBW-1 and PM-1 are upgradient background monitoring wells.
Box and Whisker plots are not prepared for constituents where the data set consists of non-detect data.

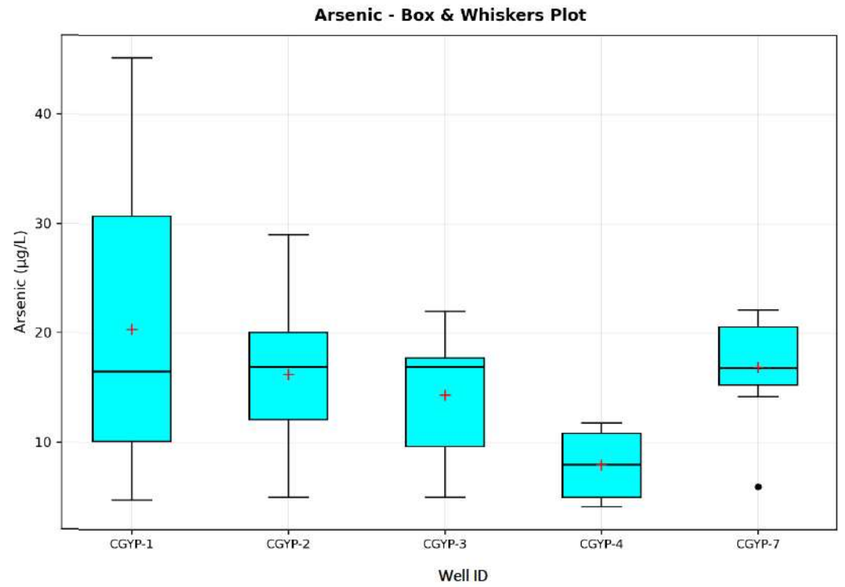
synTerra

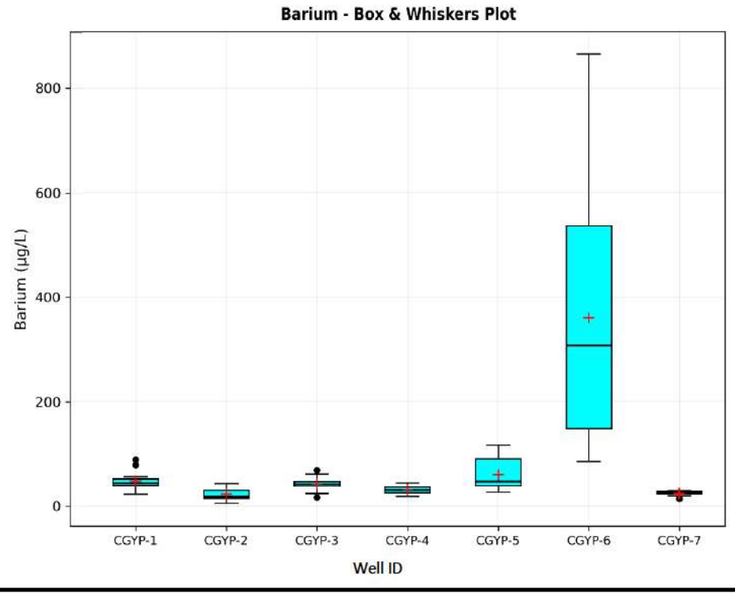
DRAWN BY: S. ROUDINI	DATE: 05/28/2025
REVISED BY: K. SHECK	DATE: 06/04/2025
CHECKED BY: K. FERRI	DATE: 06/05/2025
APPROVED BY: K. FERRI	DATE: 06/05/2025
PROJECT MANAGER: K. FERRI	

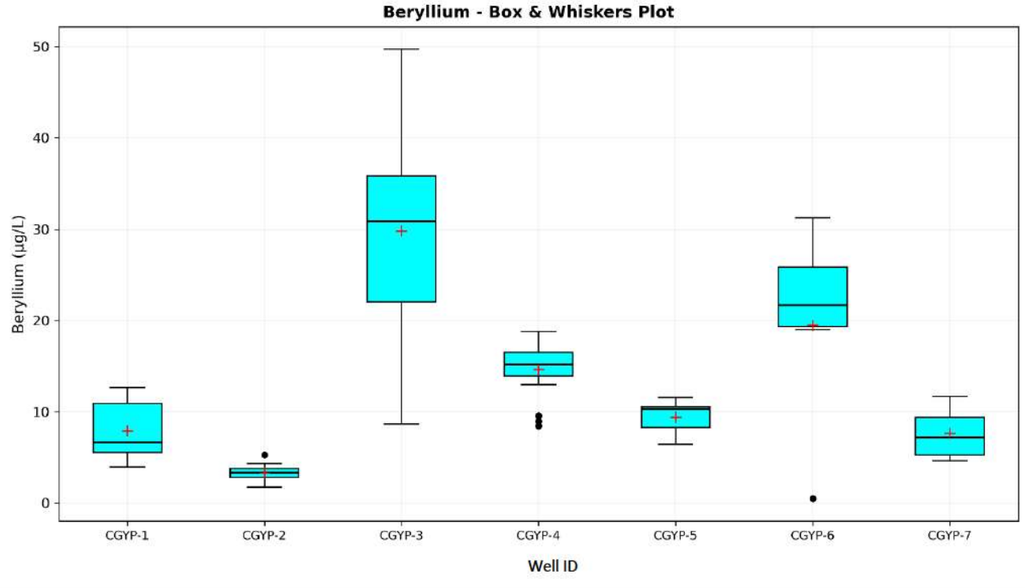
www.synterracorp.com

FIGURE 1C
BOX AND WHISKER PLOTS – POOLED BACKGROUND
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA









Notes:
µg/L - micrograms per liter
S.U. – standard units

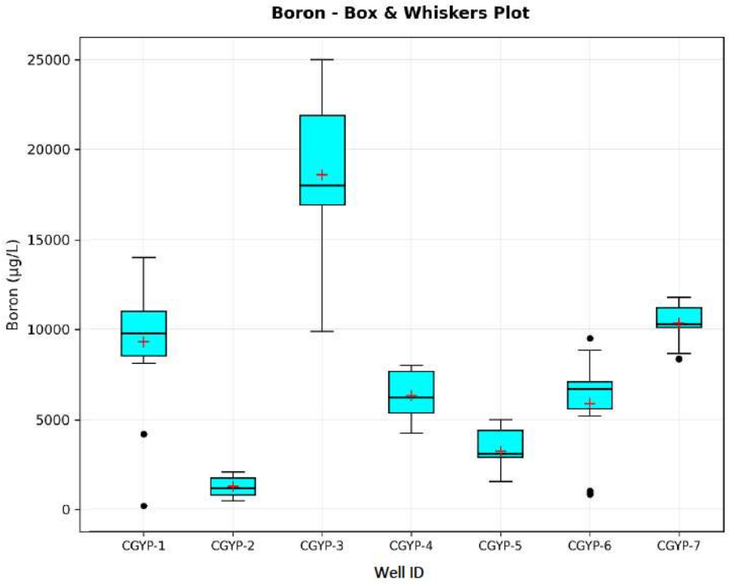
santee cooper

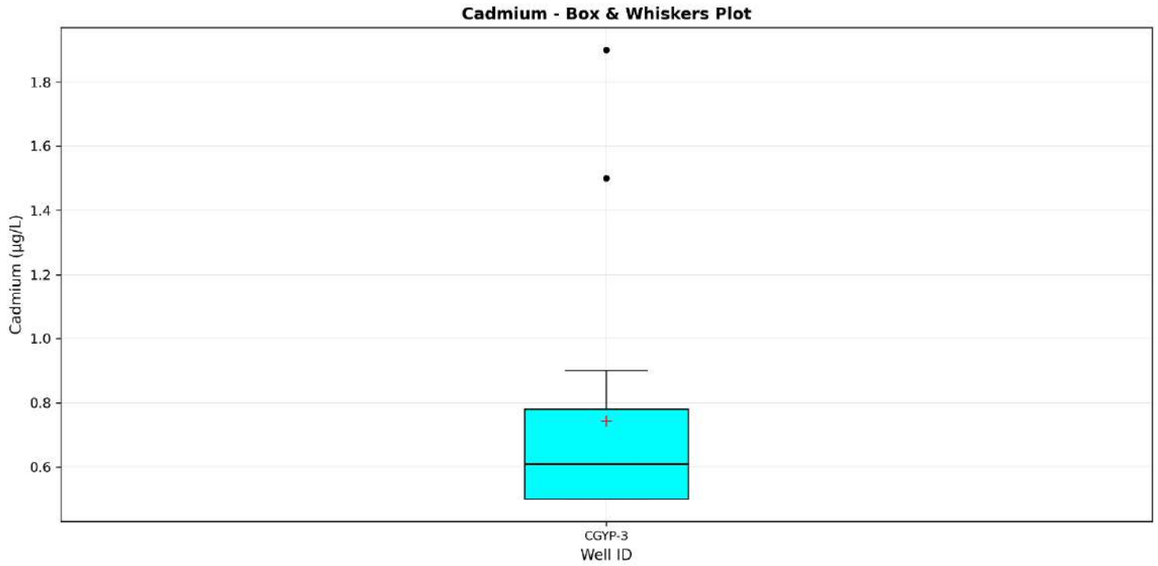
synTerra

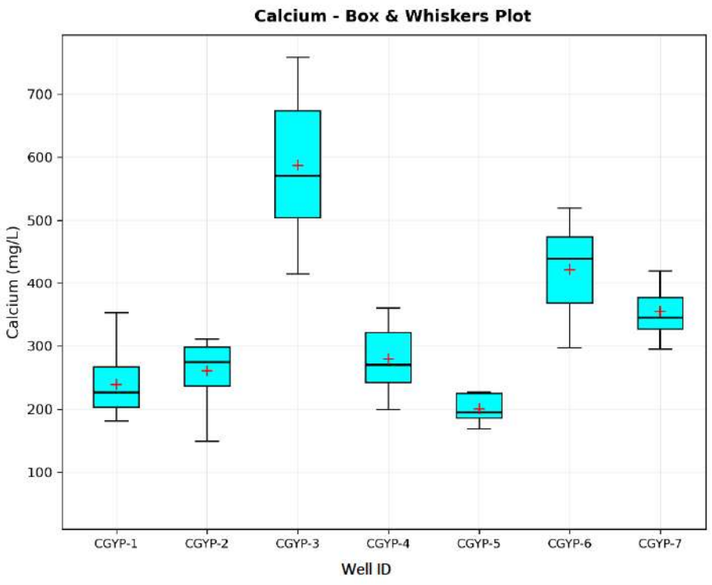
DRAWN BY: S. ROUDINI DATE: 6/03/2025
REVISED BY: K. FERRI DATE: 6/05/2025
CHECKED BY: K. FERRI DATE: 6/05/2025
APPROVED BY: K. FERRI DATE: 6/05/2025
PROJECT MANAGER: K. FERRI

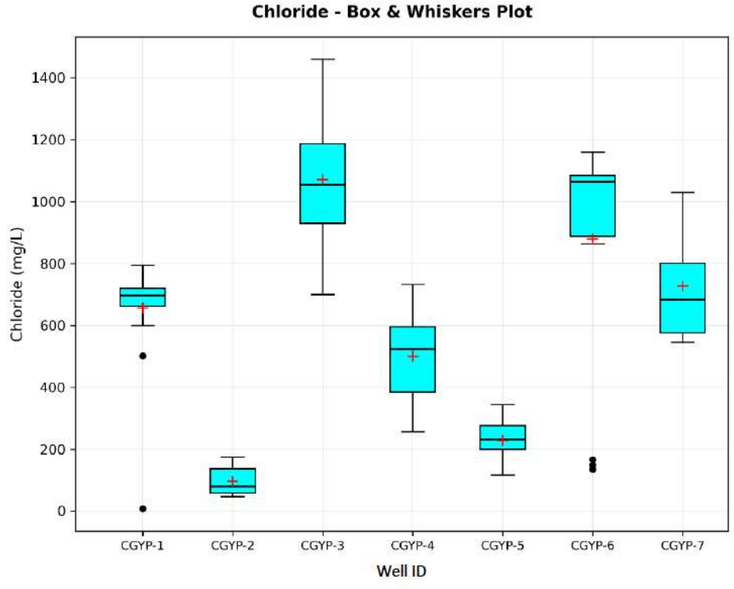
www.synterracorp.com

FIGURE 2A
BOX AND WHISKER PLOTS – DOWNGRADIENT WELLS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA









Notes:
µg/L - micrograms per liter
mg/L – milligrams per liter

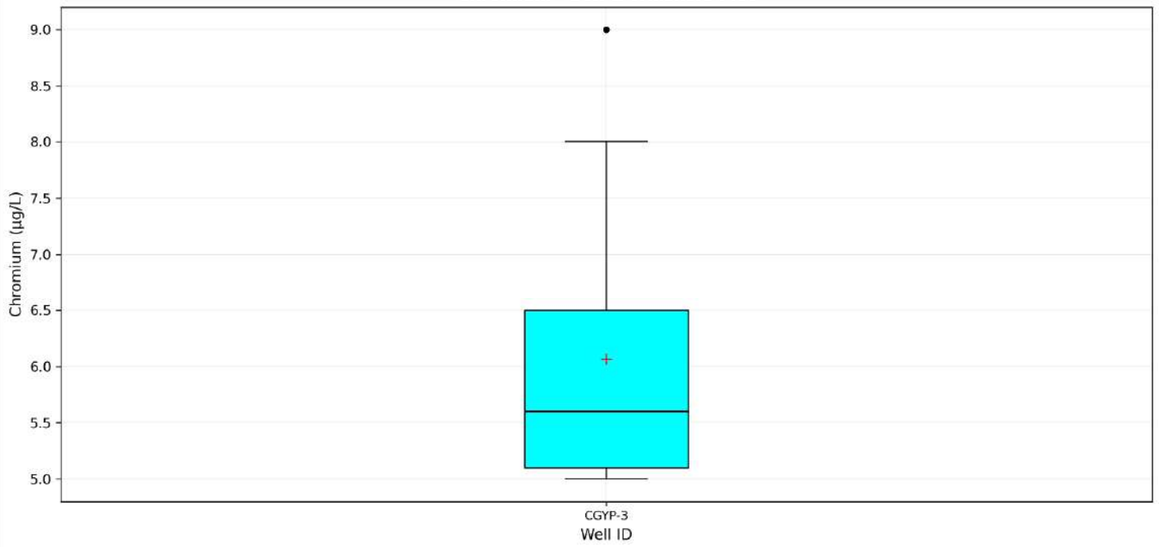
santee cooper®

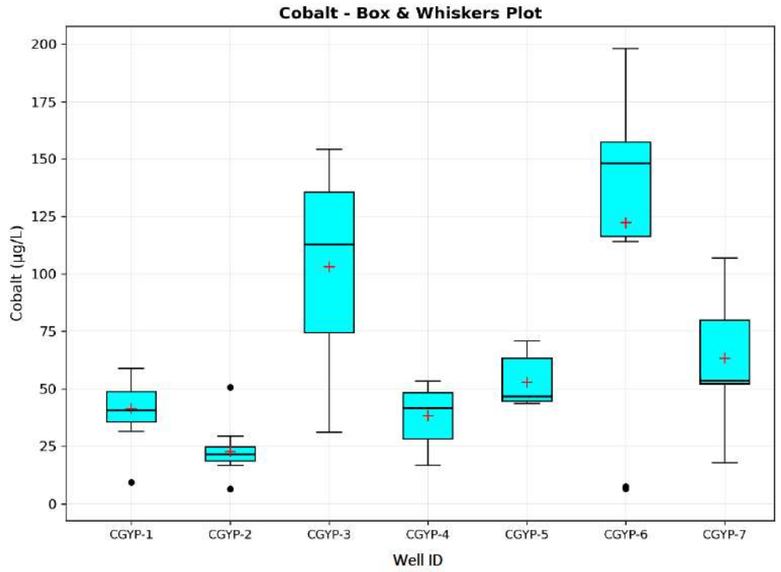
synTerra

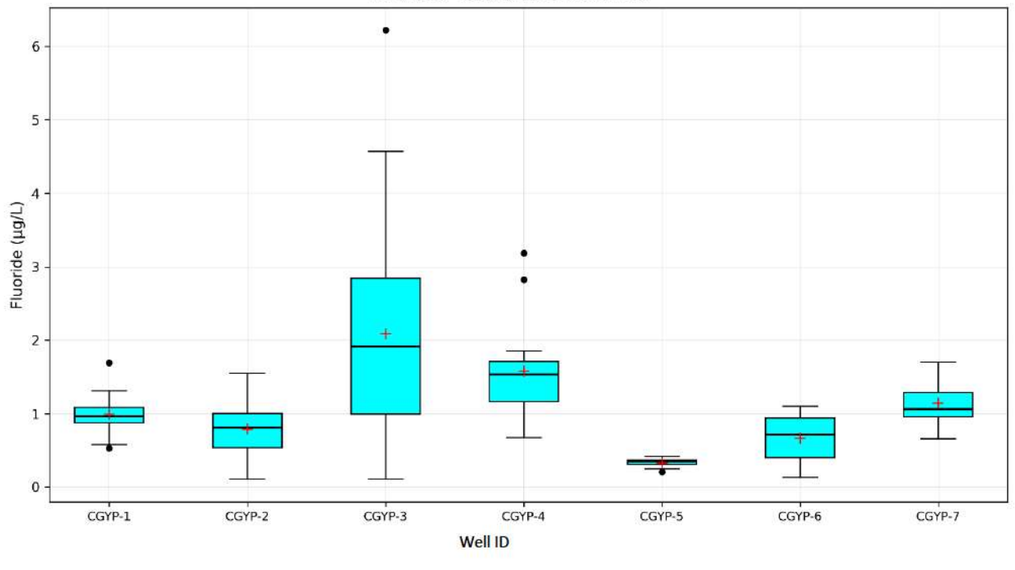
DRAWN BY: S. ROUDINI DATE: 6/03/2025
REVISED BY: K. FERRI DATE: 6/05/2025
CHECKED BY: K. FERRI DATE: 6/05/2025
APPROVED BY: K. FERRI DATE: 6/05/2025
PROJECT MANAGER: K. FERRI

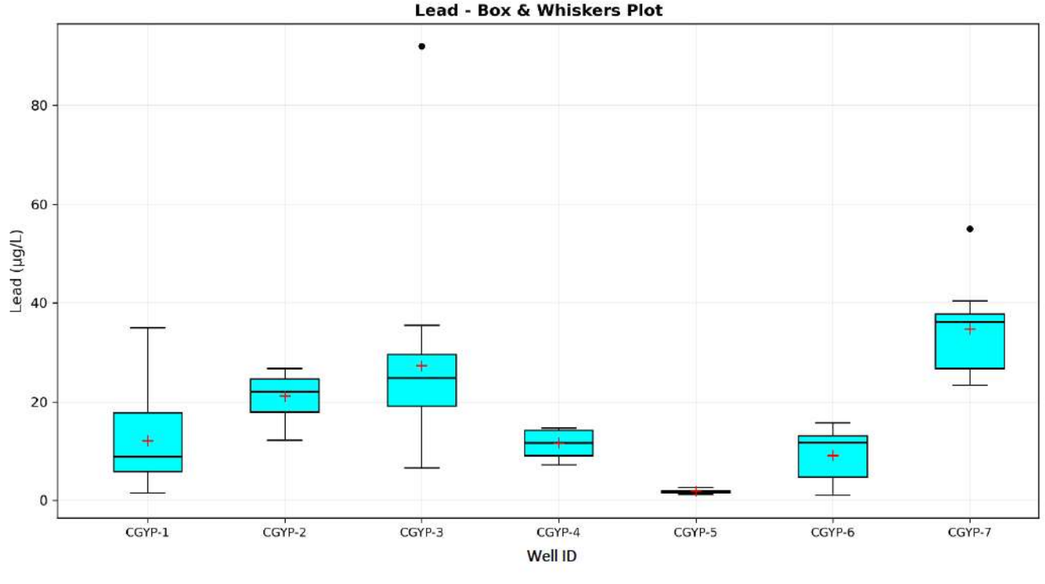
www.synterracorp.com

FIGURE 2B
BOX AND WHISKER PLOTS – DOWNGRADIENT WELLS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA









Notes:
µg/L - micrograms per liter

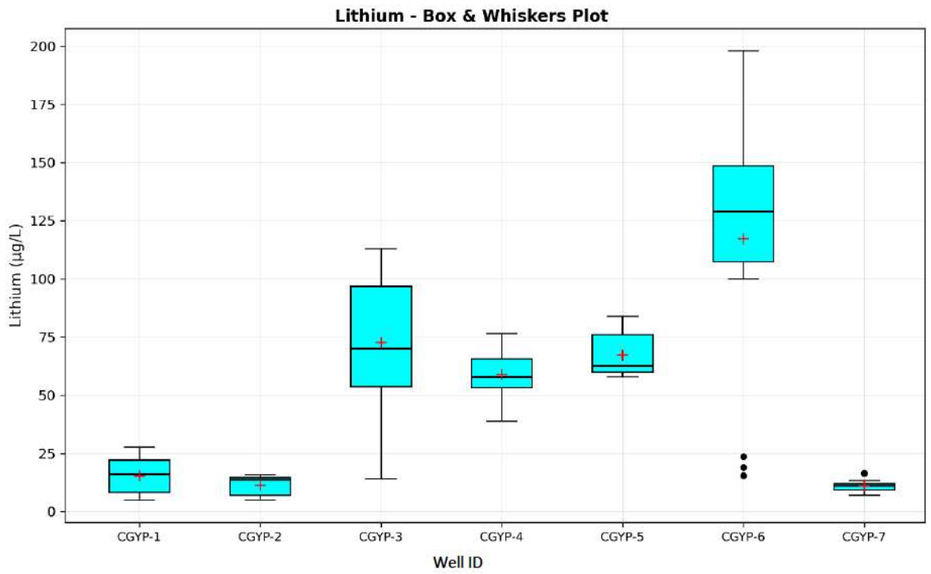
santee cooper®

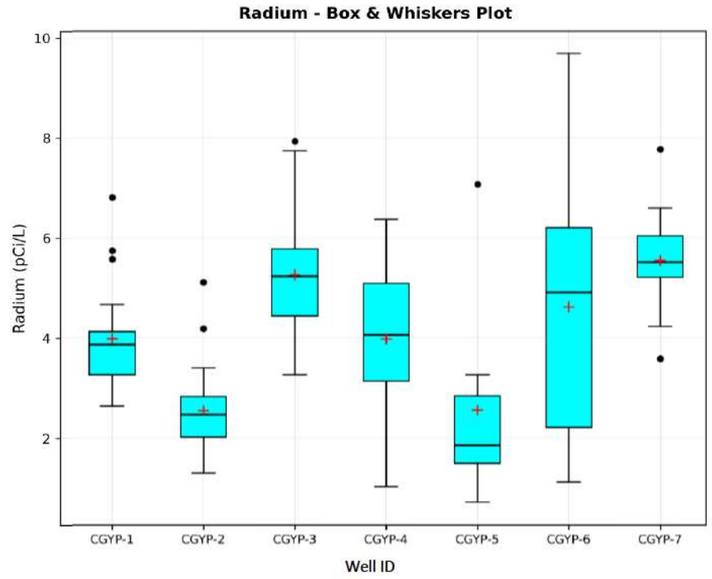
synTerra

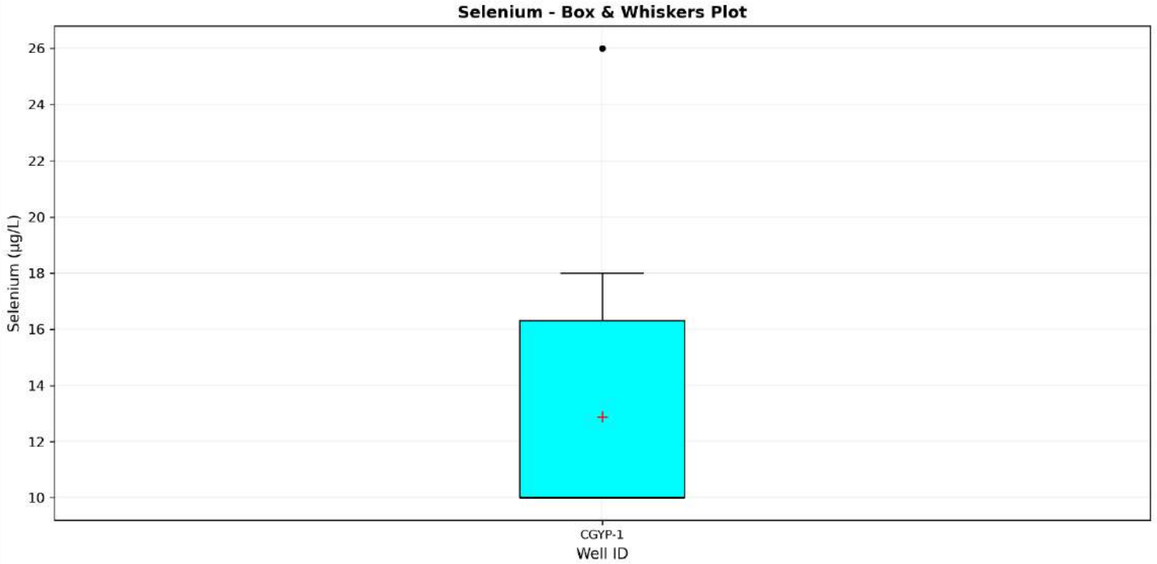
DRAWN BY: S. ROUDINI DATE: 6/03/2025
REVISED BY: K. FERRI DATE: 6/05/2025
CHECKED BY: K. FERRI DATE: 6/05/2025
APPROVED BY: K. FERRI DATE: 6/05/2025
PROJECT MANAGER: K. FERRI

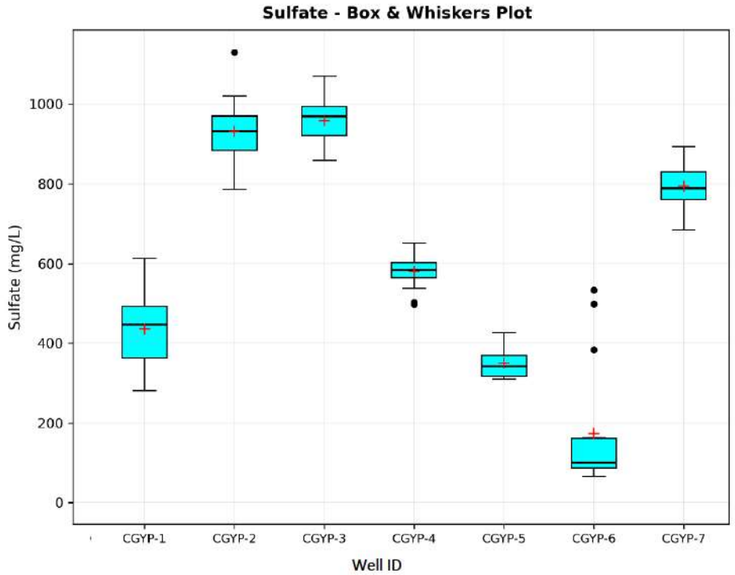
www.synterracorp.com

FIGURE 2C
BOX AND WHISKER PLOTS – DOWNGRADIENT WELLS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA









Notes:
µg/L - micrograms per liter
mg/L – milligrams per liter
pCi/L – picocuries per liter

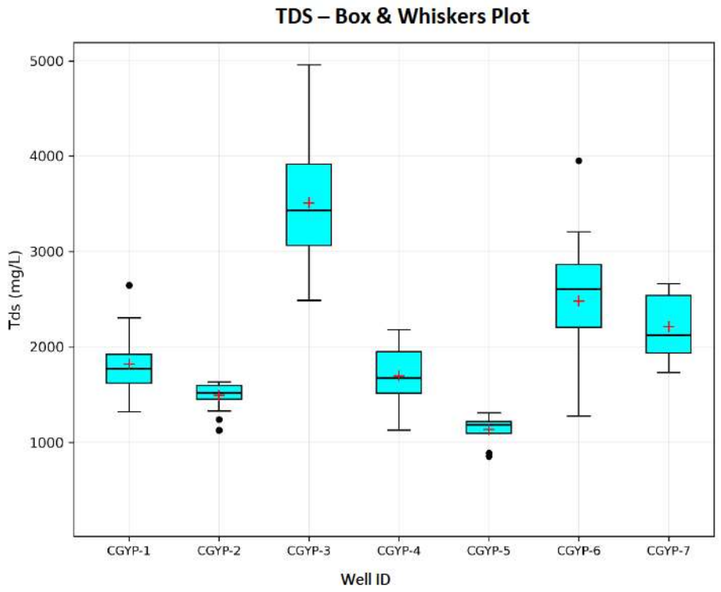
santee cooper®

synTerra

DRAWN BY: S. ROUDINI DATE: 6/03/2025
REVISED BY: K. FERRI DATE: 6/05/2025
CHECKED BY: K. FERRI DATE: 6/05/2025
APPROVED BY: K. FERRI DATE: 6/05/2025
PROJECT MANAGER: K. FERRI

www.synterracorp.com

FIGURE 2D
BOX AND WHISKER PLOTS – DOWNGRADIENT WELLS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA



INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

Notes:
mg/L – milligrams per liter
TDS – total dissolved solids

santee cooper®

synTerra

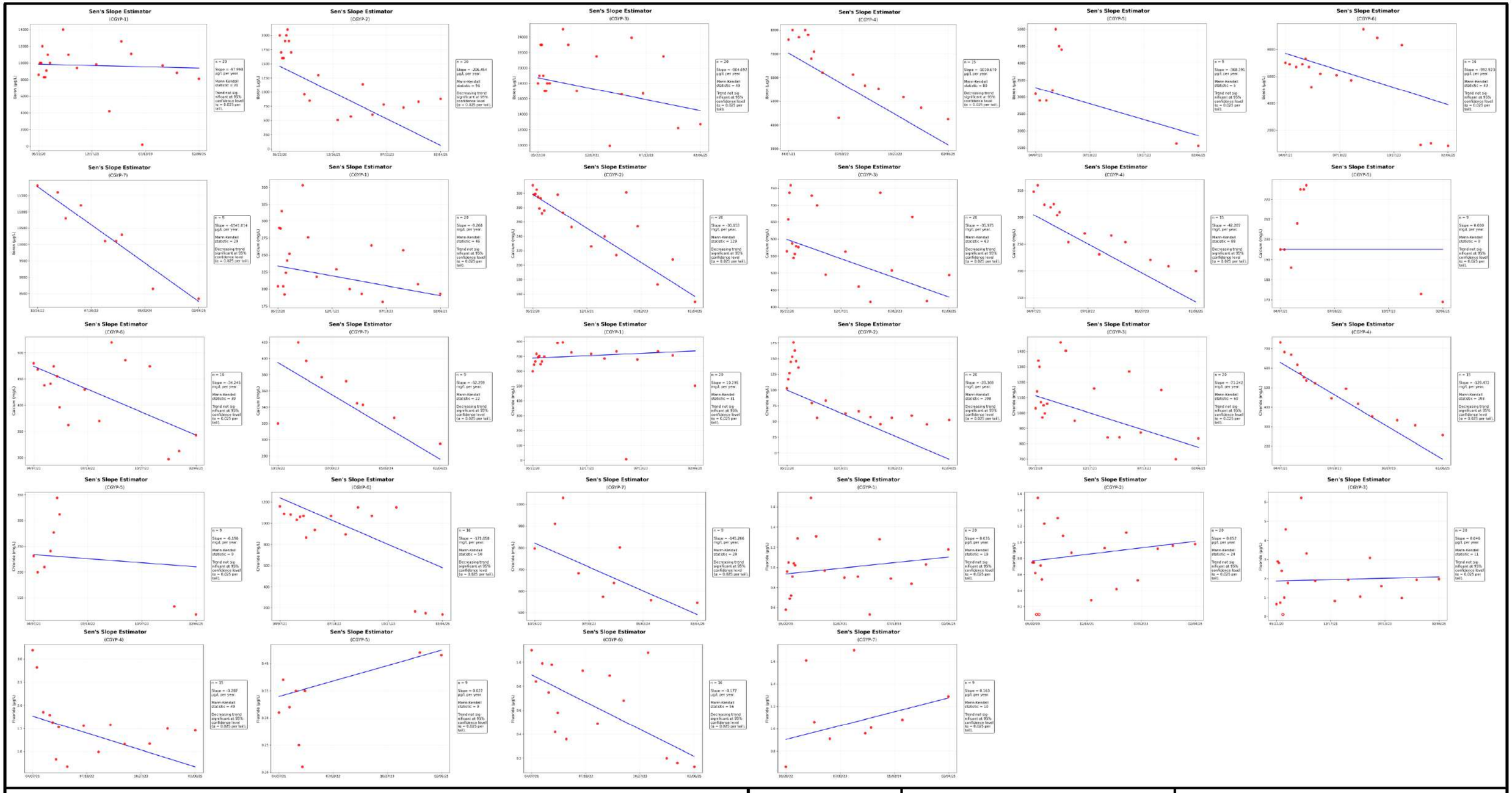
DRAWN BY: S. ROUDINI DATE: 6/03/2025
REVISED BY: K. FERRI DATE: 6/05/2025
CHECKED BY: K. FERRI DATE: 6/05/2025
APPROVED BY: K. FERRI DATE: 6/05/2025
PROJECT MANAGER: K. FERRI

www.synterracorp.com

FIGURE 2E
BOX AND WHISKER PLOTS – DOWNGRADIENT WELLS
STATISTICAL ANALYSIS - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

APPENDIX B

TIME SERIES PLOTS



LEGEND

- Analytical Result
- Estimated Theil-Sen Line

Notes:

µg/L – micrograms per liter
mg/L – milligrams per liter
Time series plots and Theil-Sen lines are not presented for data sets containing more than 80 percent non-detects or contains less than four data points.

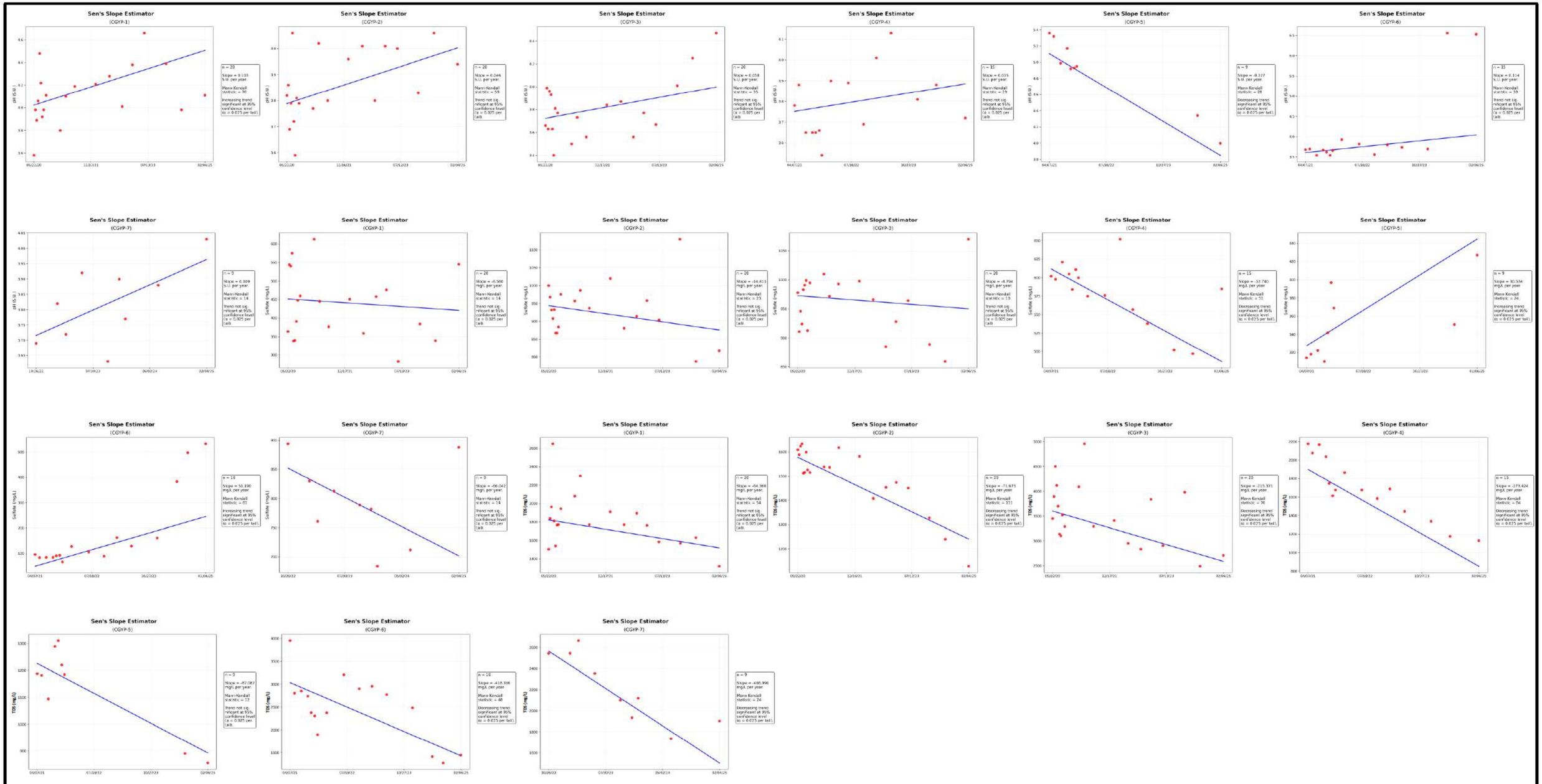
santee cooper®

synTerra

DRAWN BY: S. ROUDINI DATE: 05/28/2025
REVISED BY: K. SHECK DATE: 06/04/2025
CHECKED BY: K. FERRI DATE: 06/05/2025
APPROVED BY: K. FERRI
PROJECT MANAGER: K. FERRI

www.synterracorp.com

FIGURE 1A
TIME SERIES PLOTS – APPENDIX III
STATISTICAL ANALYSIS – FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA



LEGEND

- Analytical Result
- Estimated Theil-Sen Line

Notes:

mg/L – milligrams per liter
S.U. – standard units
TDS – total dissolved solids
Time series plots and Theil-Sen lines are not presented for data sets containing more than 80 percent non-detects or contains less than four data points.

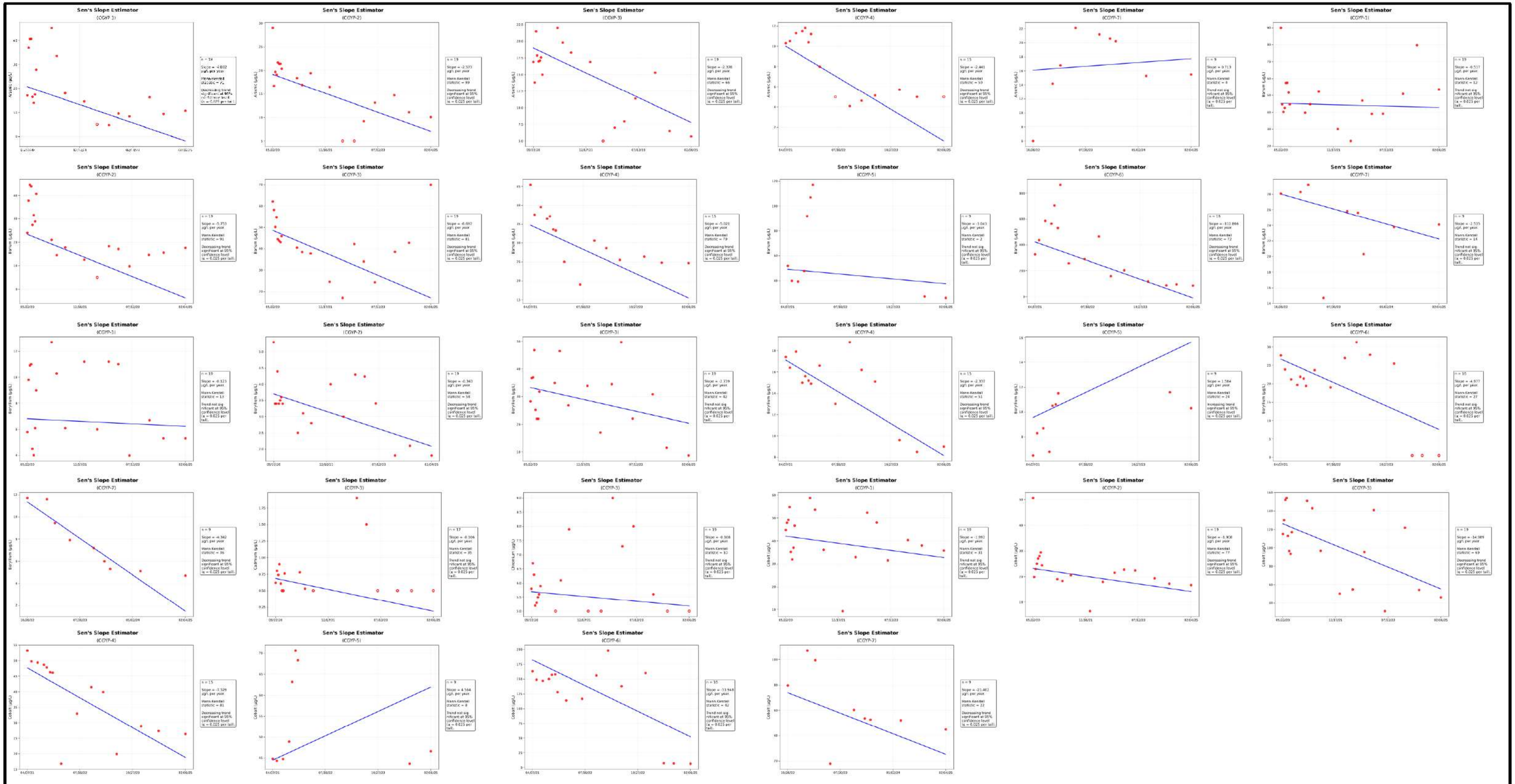
santee cooper

synTerra

DRAWN BY: S. ROUDINI DATE: 05/28/2025
REVISED BY: K. SHECK DATE: 06/04/2025
CHECKED BY: K. FERRI DATE: 06/05/2025
APPROVED BY: K. FERRI
PROJECT MANAGER: K. FERRI

www.synterracorp.com

FIGURE 1B
TIME SERIES PLOTS – APPENDIX III
STATISTICAL ANALYSIS – FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA



LEGEND

- Analytical Result
- Estimated Theil-Sen Line

Notes:

µg/L – micrograms per liter

Time series plots and Theil-Sen lines are not presented for data sets containing more than 80 percent non-detects or contains less than four data points.

santee cooper®

synTerra

DRAWN BY: S. ROUDINI DATE: 05/28/2025

REVISED BY: K. SHECK DATE: 06/04/2025

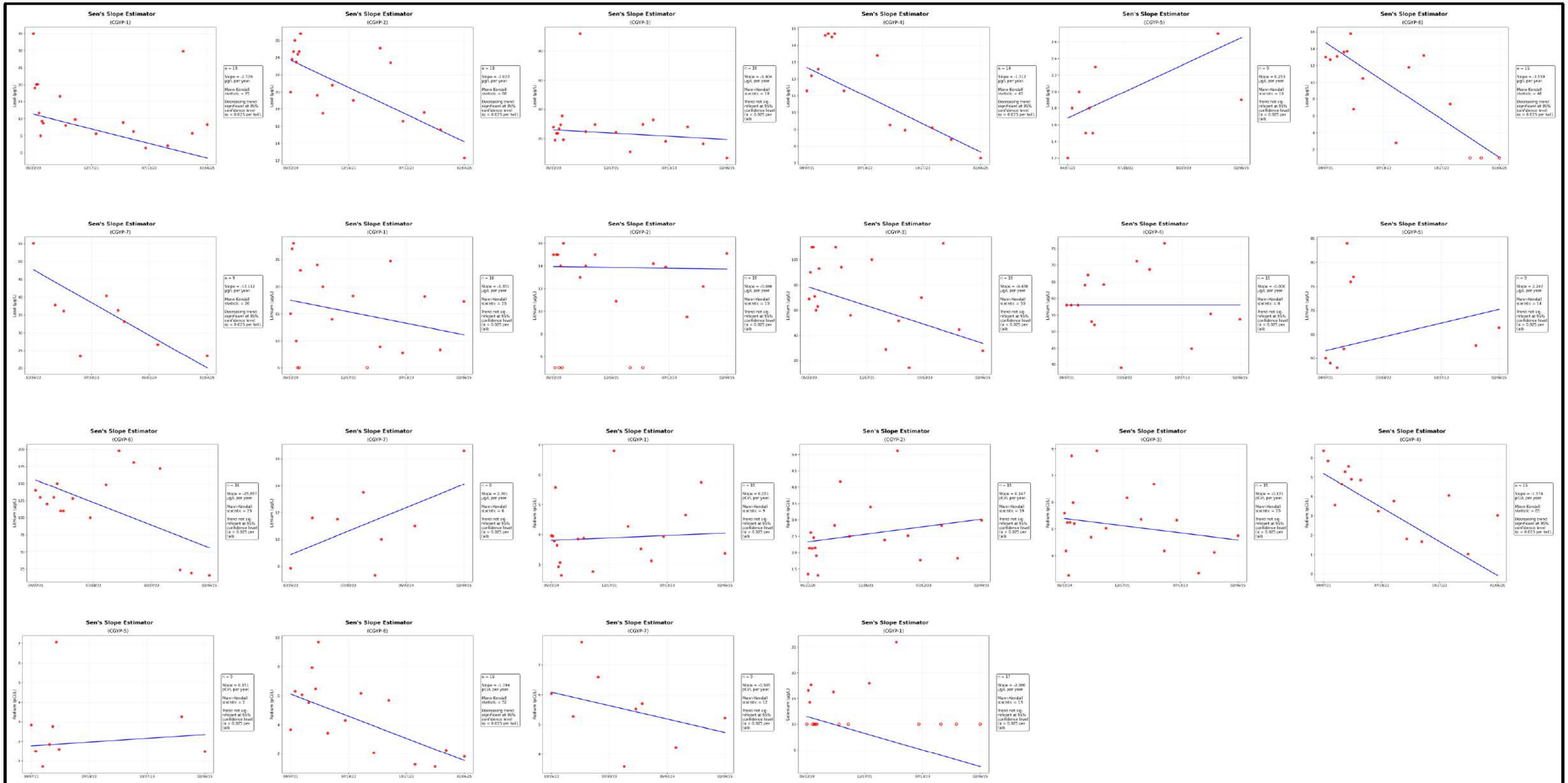
CHECKED BY: K. FERRI DATE: 06/05/2025

APPROVED BY: K. FERRI

PROJECT MANAGER: K. FERRI

www.synterracorp.com

FIGURE 2A
TIME SERIES PLOTS – APPENDIX IV
STATISTICAL ANALYSIS – FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA



LEGEND

- Analytical Result
- Estimated Theil-Sen Line

Notes:

µg/L – micrograms per liter
pCi/L – picocuries per liter
Time series plots and Theil-Sen lines are not presented for data sets containing more than 80 percent non-detects or contains less than four data points.

santee cooper®

synTerra

DRAWN BY: S. ROUDINI DATE: 05/28/2025
REVISED BY: K. SHECK DATE: 06/04/2025
CHECKED BY: K. FERRI DATE: 06/05/2025
APPROVED BY: K. FERRI
PROJECT MANAGER: K. FERRI

www.synterracorp.com

FIGURE 2B
TIME SERIES PLOTS – APPENDIX IV
STATISTICAL ANALYSIS – FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

APPENDIX C

APPENDIX III STATISTICAL ANALYSIS RESULTS

Goodness-of-Fit Test Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation	ProUCL 5.2 6/4/2025 4:34:13 PM
From File	SanteeCooper_GPbackground.xls
Full Precision	OFF
Confidence Coefficient	0.95

Sulfate

Raw Statistics

Number of Valid Observations	54
Number of Missing Observations	4
Number of Distinct Observations	52
Minimum	6.59
Maximum	115
Mean of Raw Data	46.4
Standard Deviation of Raw Data	35.59
Khat	1.274
Theta hat	36.42
Kstar	1.216
Theta star	38.17
Mean of Log Transformed Data	3.396
Standard Deviation of Log Transformed Data	1.038

Normal GOF Test Results

Correlation Coefficient R	0.901
Approximate Shapiro Wilk Test Statistic	0.789
Approximate Shapiro Wilk P Value	5.602E-10
Lilliefors Test Statistic	0.222
Lilliefors Critical (0.05) Value	0.12

Data not Normal at (0.05) Significance Level

Gamma GOF Test Results

Correlation Coefficient R	0.854
A-D Test Statistic	4.827
A-D Critical (0.05) Value	0.773
K-S Test Statistic	0.259
K-S Critical(0.05) Value	0.124

Data not Gamma Distributed at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R	0.901
Approximate Shapiro Wilk Test Statistic	0.785
Approximate Shapiro Wilk P Value	3.514E-10
Lilliefors Test Statistic	0.276
Lilliefors Critical (0.05) Value	0.12

Data not Lognormal at (0.05) Significance Level

Non-parametric GOF Test Results

Data do not follow a discernible distribution at (0.05) Level of Significance

Chloride

Raw Statistics

Number of Valid Observations	54
Number of Missing Observations	4
Number of Distinct Observations	38
Minimum	2.33
Maximum	13.5
Mean of Raw Data	7.796
Standard Deviation of Raw Data	4.808
Khat	2.278
Theta hat	3.422
Kstar	2.164
Theta star	3.603
Mean of Log Transformed Data	1.818
Standard Deviation of Log Transformed Data	0.722

Normal GOF Test Results

Correlation Coefficient R	0.857
Approximate Shapiro Wilk Test Statistic	0.705
Approximate Shapiro Wilk P Value	1.480E-13
Lilliefors Test Statistic	0.298
Lilliefors Critical (0.05) Value	0.12

Data not Normal at (0.05) Significance Level

Gamma GOF Test Results

Correlation Coefficient R	0.813
A-D Test Statistic	6.902
A-D Critical (0.05) Value	0.761
K-S Test Statistic	0.292
K-S Critical(0.05) Value	0.122

Data not Gamma Distributed at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R	0.867
Approximate Shapiro Wilk Test Statistic	0.723
Approximate Shapiro Wilk P Value	7.626E-13
Lilliefors Test Statistic	0.299
Lilliefors Critical (0.05) Value	0.12

Data not Lognormal at (0.05) Significance Level

Non-parametric GOF Test Results

Data do not follow a discernible distribution at (0.05) Level of Significance

Fluoride

	Num Obs	Num Miss	Num Valid	Detects	NDs	% NDs
Raw Statistics	58	8	50	24	26	52.00%

	Number	Minimum	Maximum	Mean	Median	SD
Statistics (Non-Detects Only)	26	0.1	0.1	0.1	0.1	2.831E-17
Statistics (Detects Only)	24	0.13	0.3	0.208	0.2	0.0489
Statistics (All: NDs treated as DL value)	50	0.1	0.3	0.152	0.1	0.0638
Statistics (All: NDs treated as DL/2 value)	50	0.05	0.3	0.126	0.05	0.0863
Statistics (Normal ROS Imputed Data)	50	-0.0484	0.3	0.136	0.131	0.0851
Statistics (Gamma ROS Imputed Data)	50	0.01	0.3	0.146	0.134	0.0735
Statistics (Lognormal ROS Imputed Data)	50	0.0591	0.3	0.155	0.136	0.0632

	K hat	K Star	Theta hat	Log Mean	Log Stdv	Log CV
Statistics (Detects Only)	18.44	16.16	0.0113	-1.599	0.241	-0.151
Statistics (NDs = DL)	6.494	6.117	0.0234	-1.965	0.392	-0.199
Statistics (NDs = DL/2)	2.141	2.026	0.0587	-2.325	0.724	-0.311
Statistics (Gamma ROS Estimates)	3.099	2.926	0.0471	-2.095	0.671	-0.32
Statistics (Lognormal ROS Estimates)	--	--	--	-1.944	0.41	-0.211

Normal GOF Test Results

	No NDs	NDs = DL	NDs = DL/2	Normal ROS
Correlation Coefficient R	0.986	0.892	0.896	0.996

	Test value	Crit. (0.05)	Conclusion with Alpha(0.05)
Shapiro-Wilk (Detects Only)	0.961	0.916	Data Appear Normal
Shapiro-Wilk (NDs = DL)	0.776	0.947	Data Not Normal
Shapiro-Wilk (NDs = DL/2)	0.777	0.947	Data Not Normal
Shapiro-Wilk (Normal ROS Estimates)	0.977	0.947	Data Appear Normal
Lilliefors (Detects Only)	0.104	0.177	Data Appear Normal
Lilliefors (NDs = DL)	0.311	0.125	Data Not Normal
Lilliefors (NDs = DL/2)	0.33	0.125	Data Not Normal
Lilliefors (Normal ROS Estimates)	0.078	0.125	Data Appear Normal

Gamma GOF Test Results

	No NDs	NDs = DL	NDs = DL/2	Gamma ROS
Correlation Coefficient R	0.986	0.936	0.925	0.976

	Test value	Crit. (0.05)	Conclusion with Alpha(0.05)
Anderson-Darling (Detects Only)	0.303	0.743	
Kolmogorov-Smirnov (Detects Only)	0.102	0.178	Detected Data Appear Gamma Distributed
Anderson-Darling (NDs = DL)	4.64	0.752	
Kolmogorov-Smirnov (NDs = DL)	0.324	0.125	Data Not Gamma Distributed
Anderson-Darling (NDs = DL/2)	5.398	0.762	
Kolmogorov-Smirnov (NDs = DL/2)	0.343	0.127	Data Not Gamma Distributed
Anderson-Darling (Gamma ROS Estimates)	0.43	0.757	
Kolmogorov-Smirnov (Gamma ROS Est.)	0.0959	0.126	Data Appear Gamma Distributed

Fluoride (Continued)

Lognormal GOF Test Results

	No NDs	NDs = DL	NDs = DL/2	Log ROS
Correlation Coefficient R	0.985	0.892	0.872	0.992

	Test value	Crit. (0.05)	Conclusion with Alpha(0.05)
Shapiro-Wilk (Detects Only)	0.958	0.916	Data Appear Lognormal
Shapiro-Wilk (NDs = DL)	0.77	0.947	Data Not Lognormal
Shapiro-Wilk (NDs = DL/2)	0.732	0.947	Data Not Lognormal
Shapiro-Wilk (Lognormal ROS Estimates)	0.968	0.947	Data Appear Lognormal
Lilliefors (Detects Only)	0.108	0.177	Data Appear Lognormal
Lilliefors (NDs = DL)	0.326	0.125	Data Not Lognormal
Lilliefors (NDs = DL/2)	0.343	0.125	Data Not Lognormal
Lilliefors (Lognormal ROS Estimates)	0.0948	0.125	Data Appear Lognormal

Note: Substitution methods such as DL or DL/2 are not recommended.

TDS

	Num Obs	Num Miss	Num Valid	Detects	NDs	% NDs
Raw Statistics	58	0	58	56	2	3.45%

	Number	Minimum	Maximum	Mean	Median	SD
Statistics (Non-Detects Only)	2	40	40	40	40	0
Statistics (Detects Only)	56	56	206	135	133.5	32.69
Statistics (All: NDs treated as DL value)	58	40	206	131.7	131	36.56
Statistics (All: NDs treated as DL/2 value)	58	20	206	131	131	38.46
Statistics (Normal ROS Imputed Data)	58	49.43	206	132.2	131	35.38
Statistics (Gamma ROS Imputed Data)	58	56	206	132.7	131	34.42
Statistics (Lognormal ROS Imputed Data)	58	56	206	132.7	131	34.26

	K hat	K Star	Theta hat	Log Mean	Log Stdv	Log CV
Statistics (Detects Only)	16.1	15.25	8.383	4.874	0.261	0.0536
Statistics (NDs = DL)	10.65	10.11	12.36	4.833	0.337	0.0697
Statistics (NDs = DL/2)	7.702	7.315	17.01	4.809	0.43	0.0895
Statistics (Gamma ROS Estimates)	13.77	13.07	9.636	4.851	0.284	0.0585
Statistics (Lognormal ROS Estimates)	--	--	--	4.852	0.281	0.0579

Normal GOF Test Results

	No NDs	NDs = DL	NDs = DL/2	Normal ROS
Correlation Coefficient R	0.99	0.986	0.977	0.99

	Apr. Test	P Value	Conclusion with Alpha(0.05)
Shapiro-Wilk (Detects Only)	0.974	0.457	Data Appear Normal
Shapiro-Wilk (NDs = DL)	0.965	0.188	Data Appear Normal
Shapiro-Wilk (NDs = DL/2)	0.952	0.0444	Data Not Normal
Shapiro-Wilk (Normal ROS Estimates)	0.97	0.305	Data Appear Normal
	Test value	Crit. (0.05)	Conclusion with Alpha(0.05)
Lilliefors (Detects Only)	0.0823	0.118	Data Appear Normal
Lilliefors (NDs = DL)	0.105	0.116	Data Appear Normal
Lilliefors (NDs = DL/2)	0.122	0.116	Data Not Normal
Lilliefors (Normal ROS Estimates)	0.0933	0.116	Data Appear Normal

Gamma GOF Test Results

	No NDs	NDs = DL	NDs = DL/2	Gamma ROS
Correlation Coefficient R	0.987	0.97	0.949	0.986

	Test value	Crit. (0.05)	Conclusion with Alpha(0.05)
Anderson-Darling (Detects Only)	0.405	0.749	
Kolmogorov-Smirnov (Detects Only)	0.0932	0.119	Detected Data Appear Gamma Distributed
Anderson-Darling (NDs = DL)	1.236	0.751	
Kolmogorov-Smirnov (NDs = DL)	0.145	0.117	Data Not Gamma Distributed
Anderson-Darling (NDs = DL/2)	2.365	0.752	
Kolmogorov-Smirnov (NDs = DL/2)	0.192	0.117	Data Not Gamma Distributed
Anderson-Darling (Gamma ROS Estimates)	0.539	0.75	
Kolmogorov-Smirnov (Gamma ROS Est.)	0.103	0.117	Data Appear Gamma Distributed

TDS (Continued)

Lognormal GOF Test Results

	No NDs	NDs = DL	NDs = DL/2	Log ROS
Correlation Coefficient R	0.972	0.929	0.847	0.974

	Apr. Test	P Value	Conclusion with Alpha(0.05)
Shapiro-Wilk (Detects Only)	0.946	0.0254	Data Not Lognormal
Shapiro-Wilk (NDs = DL)	0.865	6.6672E-7	Data Not Lognormal
Shapiro-Wilk (NDs = DL/2)	0.735	1.762E-13	Data Not Lognormal
Shapiro-Wilk (Lognormal ROS Estimates)	0.944	0.0165	Data Not Lognormal
	Test value	Crit. (0.05)	Conclusion with Alpha(0.05)
Lilliefors (Detects Only)	0.105	0.118	Data Appear Lognormal
Lilliefors (NDs = DL)	0.171	0.116	Data Not Lognormal
Lilliefors (NDs = DL/2)	0.231	0.116	Data Not Lognormal
Lilliefors (Lognormal ROS Estimates)	0.115	0.116	Data Appear Lognormal

Note: Substitution methods such as DL or DL/2 are not recommended.

Calcium

Raw Statistics

Number of Valid Observations	53
Number of Missing Observations	5
Number of Distinct Observations	46
Minimum	6.2
Maximum	119
Mean of Raw Data	23.62
Standard Deviation of Raw Data	15.29
Khat	4.559
Theta hat	5.18
Kstar	4.314
Theta star	5.474
Mean of Log Transformed Data	3.048
Standard Deviation of Log Transformed Data	0.45

Normal GOF Test Results

Correlation Coefficient R	0.734
Approximate Shapiro Wilk Test Statistic	0.588
Approximate Shapiro Wilk P Value	0
Lilliefors Test Statistic	0.265
Lilliefors Critical (0.05) Value	0.121

Data not Normal at (0.05) Significance Level

Gamma GOF Test Results

Correlation Coefficient R	0.804
A-D Test Statistic	1.463
A-D Critical (0.05) Value	0.754
K-S Test Statistic	0.173
K-S Critical(0.05) Value	0.122

Data not Gamma Distributed at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R	0.952
Approximate Shapiro Wilk Test Statistic	0.937
Approximate Shapiro Wilk P Value	0.011
Lilliefors Test Statistic	0.143
Lilliefors Critical (0.05) Value	0.121

Data not Lognormal at (0.05) Significance Level

Non-parametric GOF Test Results

Data do not follow a discernible distribution at (0.05) Level of Significance

Boron

Raw Statistics

Number of Valid Observations	40
Number of Missing Observations	18
Number of Distinct Observations	35
Minimum	11
Maximum	836
Mean of Raw Data	40.69
Standard Deviation of Raw Data	129.2
Khat	0.894
Theta hat	45.49
Kstar	0.844
Theta star	48.21
Mean of Log Transformed Data	3.052
Standard Deviation of Log Transformed Data	0.672

Normal GOF Test Results

Correlation Coefficient R	0.403
Shapiro Wilk Test Statistic	0.199
Shapiro Wilk Critical (0.05) Value	0.94
Approximate Shapiro Wilk P Value	0
Lilliefors Test Statistic	0.452
Lilliefors Critical (0.05) Value	0.139

Data not Normal at (0.05) Significance Level

Gamma GOF Test Results

Correlation Coefficient R	0.627
A-D Test Statistic	9.469
A-D Critical (0.05) Value	0.783
K-S Test Statistic	0.398
K-S Critical(0.05) Value	0.144

Data not Gamma Distributed at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R	0.726
Shapiro Wilk Test Statistic	0.57
Shapiro Wilk Critical (0.05) Value	0.94
Approximate Shapiro Wilk P Value	7.089E-13
Lilliefors Test Statistic	0.277
Lilliefors Critical (0.05) Value	0.139

Data not Lognormal at (0.05) Significance Level

Non-parametric GOF Test Results

Data do not follow a discernible distribution at (0.05) Level of Significance

Nonparametric Background Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 6/4/2025 4:29:20 PM
From File	SanteeCooper_GPbackground.xls
Full Precision	OFF
Confidence Coefficient	95%
Coverage	90%
Different or Future K Observations	1

Sulfate

General Statistics

Total Number of Observations	54	Number of Distinct Observations	52
		Number of Missing Observations	4
Minimum	6.59	First Quartile	9.778
Second Largest	97.1	Median	46
Maximum	115	Third Quartile	79.88
Mean	46.4	SD	35.59
Coefficient of Variation	0.767	Skewness	0.103
Mean of logged Data	3.396	SD of logged Data	1.038

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	1.624	d2max (for USL)	2.987

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution

Nonparametric Upper Limits for Background Threshold Values

Order of Statistic, r	52	95% UTL with 90% Coverage	97.1
Approx, f used to compute achieved CC	1.926	Approximate Actual Confidence Coefficient achieved by UTL	0.917
		Approximate Sample Size needed to achieve specified CC	46
95% Percentile Bootstrap UTL with 90% Coverage	89.95	95% BCA Bootstrap UTL with 90% Coverage	89.95
95% UPL	91.85	90% Percentile	86.42
90% Chebyshev UPL	154.2	95% Percentile	89.78
95% Chebyshev UPL	203	99% Percentile	105.5
95% USL	115		

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.
Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.
The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Chloride

General Statistics

Total Number of Observations	54	Number of Distinct Observations	38
		Number of Missing Observations	4
Minimum	2.33	First Quartile	3
Second Largest	13.4	Median	7.545
Maximum	13.5	Third Quartile	12.65
Mean	7.796	SD	4.808
Coefficient of Variation	0.617	Skewness	0.00994
Mean of logged Data	1.818	SD of logged Data	0.722

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	1.624	d2max (for USL)	2.987

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution

Nonparametric Upper Limits for Background Threshold Values

Order of Statistic, r	52	95% UTL with 90% Coverage	13.4
Approx, f used to compute achieved CC	1.926	Approximate Actual Confidence Coefficient achieved by UTL	0.917
		Approximate Sample Size needed to achieve specified CC	46
95% Percentile Bootstrap UTL with 90% Coverage	13.37	95% BCA Bootstrap UTL with 90% Coverage	13.3
95% UPL	13.4	90% Percentile	12.87
90% Chebyshev UPL	22.35	95% Percentile	13.34
95% Chebyshev UPL	28.95	99% Percentile	13.45
95% USL	13.5		

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.
Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.
The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Calcium

General Statistics

Total Number of Observations	53	Number of Distinct Observations	46
		Number of Missing Observations	5
Minimum	6.2	First Quartile	15.9
Second Largest	42.2	Median	23.2
Maximum	119	Third Quartile	27.5
Mean	23.62	SD	15.29
Coefficient of Variation	0.648	Skewness	4.78
Mean of logged Data	3.048	SD of logged Data	0.45

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	1.628	d2max (for USL)	2.98

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution

Nonparametric Upper Limits for Background Threshold Values

Order of Statistic, r	51	95% UTL with 90% Coverage	42.2
Approx, f used to compute achieved CC	1.889	Approximate Actual Confidence Coefficient achieved by UTL	0.91
		Approximate Sample Size needed to achieve specified CC	46
95% Percentile Bootstrap UTL with 90% Coverage	36.38	95% BCA Bootstrap UTL with 90% Coverage	36.38
95% UPL	38.56	90% Percentile	29.38
90% Chebyshev UPL	69.93	95% Percentile	35.14
95% Chebyshev UPL	90.91	99% Percentile	79.06
95% USL	119		

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.
Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.
The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Boron

General Statistics

Total Number of Observations	40	Number of Distinct Observations	35
		Number of Missing Observations	18
Minimum	11	First Quartile	16.45
Second Largest	49	Median	18.35
Maximum	836	Third Quartile	21.93
Mean	40.69	SD	129.2
Coefficient of Variation	3.175	Skewness	6.291
Mean of logged Data	3.052	SD of logged Data	0.672

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	1.69	d2max (for USL)	2.868

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution

Nonparametric Upper Limits for Background Threshold Values

Order of Statistic, r	39	95% UTL with 90% Coverage	836
Approx, f used to compute achieved CC	2.167	Approximate Actual Confidence Coefficient achieved by UTL	0.92
		Approximate Sample Size needed to achieve specified CC	29
95% Percentile Bootstrap UTL with 90% Coverage	49	95% BCA Bootstrap UTL with 90% Coverage	49
95% UPL	48.74	90% Percentile	30.38
90% Chebyshev UPL	433.1	95% Percentile	43.97
95% Chebyshev UPL	610.8	99% Percentile	529.1
95% USL	836		

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.
Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.
The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Normal Background Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 6/4/2025 3:42:05 PM
From File	SanteeCooper_GPbackground.xls
Full Precision	OFF
Confidence Coefficient	95%
Coverage	95%
Different or Future K Observations	1

Fluoride

General Statistics

Total Number of Observations	50	Number of Distinct Observations	15
Number of Missing Observations	8		
Number of Detects	24	Number of Non-Detects	26
Number of Distinct Detects	14	Number of Distinct Non-Detects	1
Minimum Detect	0.13	Minimum Non-Detect	0.1
Maximum Detect	0.3	Maximum Non-Detect	0.1
Variance Detected	0.00239	Percent Non-Detects	52%
Mean Detected	0.208	SD Detected	0.0489
Mean of Detected Logged Data	-1.599	SD of Detected Logged Data	0.241

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	2.058	d2max (for USL)	2.957

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.961	**Shapiro Wilk GOF Test**	
1% Shapiro Wilk Critical Value	0.884	Detected Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.104	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.205	Detected Data appear Normal at 1% Significance Level	

Detected Data appear Normal at 1% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

Mean	0.152	SD	0.0632
95% UTL95% Coverage	0.282	95% KM UPL (t)	0.259
95% KM Chebyshev UPL	0.43	90% KM Percentile (z)	0.233
95% KM Percentile (z)	0.256	99% KM Percentile (z)	0.299
95% KM USL	0.339		

DL/2 Substitution Background Statistics Assuming Normal Distribution

Mean	0.126	SD	0.0863
95% UTL95% Coverage	0.303	95% UPL (t)	0.272
90% Percentile (z)	0.236	95% Percentile (z)	0.268
99% Percentile (z)	0.327	95% USL	0.381

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.
Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.
The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

TDS

General Statistics

Total Number of Observations	58	Number of Distinct Observations	43
Number of Detects	56	Number of Non-Detects	2
Number of Distinct Detects	42	Number of Distinct Non-Detects	1
Minimum Detect	56	Minimum Non-Detect	40
Maximum Detect	206	Maximum Non-Detect	40
Variance Detected	1069	Percent Non-Detects	3.448%
Mean Detected	135	SD Detected	32.69
Mean of Detected Logged Data	4.874	SD of Detected Logged Data	0.261

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	2.024	d2max (for USL)	3.014

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.974	**Normal GOF Test on Detected Observations Only**	
1% Shapiro Wilk P Value	0.457	Detected Data appear Normal at 1% Significance Level	
Lilliefors Test Statistic	0.0823	**Lilliefors GOF Test**	
1% Lilliefors Critical Value	0.136	Detected Data appear Normal at 1% Significance Level	

Detected Data appear Normal at 1% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

Mean	131.7	SD	36.25
95% UTL95% Coverage	205.1	95% KM UPL (t)	192.8
95% KM Chebyshev UPL	291.1	90% KM Percentile (z)	178.2
95% KM Percentile (z)	191.3	99% KM Percentile (z)	216
95% KM USL	241		

DL/2 Substitution Background Statistics Assuming Normal Distribution

Mean	131	SD	38.46
95% UTL95% Coverage	208.9	95% UPL (t)	195.9
90% Percentile (z)	180.3	95% Percentile (z)	194.3
99% Percentile (z)	220.5	95% USL	246.9

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.
Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.
The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Tolerance Intervals Report

Dataset SanteeCooperBackground

Descriptive Statistics of pH

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
58	4.753448	0.4377597	0.05748066	4.09	5.58	1.49

Two-Sided 95% Tolerance Intervals of pH

Percent of Population Between Limits	Parametric Lower Tolerance Limit	Parametric Upper Tolerance Limit	Nonparametric Lower Tolerance Limit	Nonparametric Upper Tolerance Limit
50	4.400428	5.106468	4.31	5.2
75	4.151369	5.355527	4.15	5.32
80	4.082699	5.424197	4.13	5.47
90	3.892551	5.614345	4.09	5.58
95	3.727626	5.77927		
99	3.40529	6.101607		

Notes:
The parametric (normal-based) limits assume that the data follow the normal distribution.
The nonparametric (distribution-free) limits make no special distributional assumption.

Tolerance Intervals Report

Dataset SanteeCooperBackground

Lower One-Sided 95% Tolerance Bounds of pH

Percent of Population Greater Than Bound	Parametric Lower Tolerance Bound	Nonparametric Lower Tolerance Bound
50	4.697867	4.48
75	4.343046	4.26
80	4.262369	4.25
90	4.046295	4.09
95	3.864918	
99	3.520356	

Notes:
The parametric (normal-based) limit assumes that the data follow the normal distribution.
The nonparametric (distribution-free) limit makes no special distributional assumption.

Tolerance Intervals Report

Dataset SanteeCooperBackground

Upper One-Sided 95% Tolerance Bounds of pH

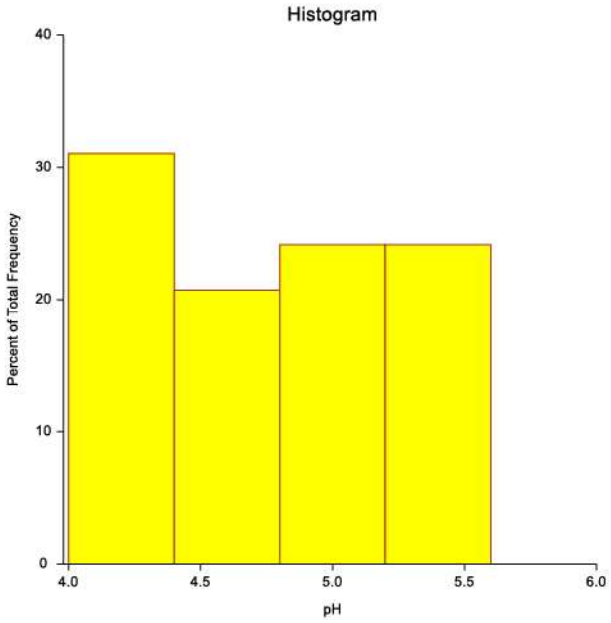
Percent of Population Greater Than Bound	Parametric Upper Tolerance Bound	Nonparametric Upper Tolerance Bound
50	4.80903	5.01
75	5.163851	5.21
80	5.244527	5.25
90	5.460602	5.47
95	5.641979	5.58
99	5.986541	5.58

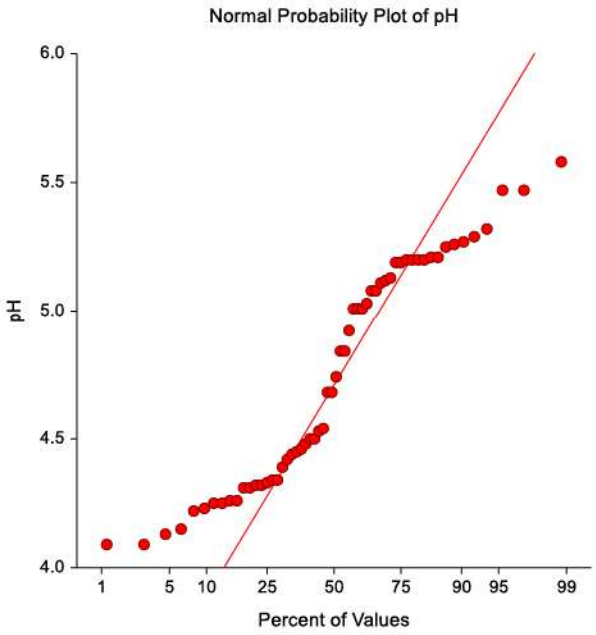
Notes:
The parametric (normal-based) limit assumes that the data follow the normal distribution.
The nonparametric (distribution-free) limit makes no special distributional assumption.

Normality Test Section of pH

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W normality	0.9116105	0.0004529869			Reject
Anderson-Darling normality	2.108446	2.344785E-05			Reject
Kolmogorov-Smirnov normality	0.1525979		0.106	0.115	Reject
D'Agostino Skewness normality	0.2888446	0.7727003	1.645	1.96	Can't reject
D'Agostino Kurtosis normality	-6.724741	1.726974E-11	1.645	1.96	Reject
D'Agostino Omnibus normality	45.30558	1.452172E-10	4.605	5.991	Reject

Plots Section of pH


Histogram
Percent of Total Frequency
40
30
20
10
0
4.0
4.5
5.0
5.5
6.0
pH


Normal Probability Plot of pH
pH
6.0
5.5
5.0
4.5
4.0
1
5
10
25
50
75
90
95
99
Percent of Values

Tolerance Intervals Report

Dataset SanteeCooperBackground

Procedure Input Settings

Autosave Inactive

Variables Tab

-- Data Variables --

Variables:	pH
Group Variable:	<Empty>

-- Frequency (Count) Variable --

Frequency Variable:	<Empty>

-- Population Percentages --

Population Percentages for Tolerances:	50 75 80 90 95 99

-- Data Transformation Options --

Exponent:	None
Additive Constant:	<Empty>

Reports Tab

-- Select Reports --

Descriptive Statistics	Checked
Tolerance Intervals	Checked
Normality Tests	Checked

-- Report Options --

Alpha Level:	0.050
Precision:	Single
Value Labels:	Data Values
Variable Names:	Names

·· Decimal Places ··

Values:	General
Means:	General
Probabilities:	General

Plots Tab

-- Select Plots --

Histogram	Checked
Probability Plot	Checked

APPENDIX D

APPENDIX IV STATISTICAL ANALYSIS RESULTS

TABLE 1
APPENDIX IV STATISTICAL RESULTS
STATISTICAL ANALYSIS REPORT - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Well ID	Parameter	Number of Samples	Number of Non-Detects	Number of Detects	Percent Non-Detect	CI Calculation	P-Value	Sen's Slope	Mann-Kendall Trend	CI Method	LCL	UCL
CGYP-1	pH	20	0	20	0.0	Yes	2.48E-02	0.102796282	Yes	Theil-Sen (BootStrapped)	4.078932517	4.167562436
CGYP-2	pH	20	0	20	0.0	Yes	6.38E-02	0.045573333	No	Gamma	NA	NA
CGYP-3	pH	20	0	20	0.0	Yes	2.69E-01	0.058290345	No	Lognormal	3.706428305	3.900218153
CGYP-4	pH	15	0	15	0.0	Yes	1.63E-01	0.034844879	No	Lognormal	3.718988005	3.862913568
CGYP-5	pH	9	0	9	0.0	Yes	4.88E-03	-0.32740162	Yes	Theil-Sen (BootStrapped)	2.32019802	5.437232143
CGYP-6	pH	15	0	15	0.0	Yes	5.94E-02	0.114317658	No	Nonparametric	3.606140795	3.845408543
CGYP-7	pH	9	0	9	0.0	Yes	1.75E-01	0.108656413	No	Lognormal	3.740866118	3.89861833
CGYP-1	Antimony	19	17	2	89.5	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-2	Antimony	19	18	1	94.7	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-3	Antimony	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-4	Antimony	15	14	1	93.3	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Antimony	9	8	1	88.9	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Antimony	16	15	1	93.8	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Antimony	9	7	2	77.8	Insufficient Data	NE^	NE^	NE^	Central Tendency	5.155555556	NA
CGYP-1	Arsenic	19	1	18	5.3	Yes	1.29E-02	-4.801880609	Yes	Theil-Sen (BootStrapped)	-17.58390646	33.19234043
CGYP-2	Arsenic	19	2	17	10.5	Yes	5.97E-04	-2.573447636	Yes	Theil-Sen (BootStrapped)	-5.025737265	23.25661673
CGYP-3	Arsenic	19	1	18	5.3	Yes	2.29E-02	-2.378126866	Yes	Theil-Sen (BootStrapped)	1.384398617	22.07180157
CGYP-4	Arsenic	15	2	13	13.3	Yes	1.47E-02	-2.441123249	Yes	Theil-Sen (BootStrapped)	-4.111857573	12.75371025
CGYP-5	Arsenic	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Arsenic	16	16	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Arsenic	9	0	9	0.0	Yes	7.54E-01	0.713366171	No	Normal	13.77283711	19.98271845
CGYP-1	Barium	19	0	19	0.0	Yes	7.00E-01	-0.517448185	No	Lognormal	43.55792189	55.88706823
CGYP-2	Barium	19	1	18	5.3	Yes	1.64E-03	-5.752717408	Yes	Theil-Sen (BootStrapped)	-26.56894912	32.67860326
CGYP-3	Barium	19	0	19	0.0	Yes	5.13E-03	-6.69724778	Yes	Theil-Sen (BootStrapped)	-27.06570997	55.97001961
CGYP-4	Barium	15	0	15	0.0	Yes	1.13E-04	-5.02116405	Yes	Theil-Sen (BootStrapped)	-21.88939394	43.36493506
CGYP-5	Barium	9	0	9	0.0	Yes	9.17E-01	-3.042780558	No	Lognormal	45.08903292	99.33007248
CGYP-6	Barium	16	0	16	0.0	Yes	1.39E-03	-112.866042	Yes	Theil-Sen (BootStrapped)	-216.202751	657.4814252
CGYP-7	Barium	9	0	9	0.0	Yes	1.75E-01	-2.535306171	No	Normal	21.60400793	27.26265874
CGYP-1	Beryllium	19	0	19	0.0	Yes	6.74E-01	-0.123144414	No	Nonparametric	5.324135228	10.99517295
CGYP-2	Beryllium	19	0	19	0.0	Yes	4.48E-02	-0.342846879	Yes	Theil-Sen (BootStrapped)	0.890089447	4.400144836
CGYP-3	Beryllium	19	0	19	0.0	Yes	1.51E-01	-2.739456719	No	Normal	25.32744826	34.30413068
CGYP-4	Beryllium	15	0	15	0.0	Yes	1.33E-02	-2.33743838	Yes	Theil-Sen (BootStrapped)	6.15	20.27604167
CGYP-5	Beryllium	9	0	9	0.0	Yes	1.65E-02	1.583541305	Yes	Theil-Sen (BootStrapped)	10.53859134	10.40041191
CGYP-6	Beryllium	16	3	13	18.8	Yes	2.40E-01	-4.977272735	No	Normal	13.05026372	23.52830782
CGYP-7	Beryllium	9	0	9	0.0	Yes	2.63E-04	-4.342322293	Yes	Theil-Sen (BootStrapped)	-2.88	13.4677551
CGYP-1	Boron	20	0	20	0.0	Yes	5.15E-01	-97.99836232	No	Nonparametric	8460.308128	11000
CGYP-2	Boron	20	0	20	0.0	Yes	2.01E-03	-296.4542934	Yes	Theil-Sen (BootStrapped)	-1008.438948	1835.420489
CGYP-3	Boron	20	0	20	0.0	Yes	1.17E-01	-904.6921503	No	Normal	17032.94789	20167.05211
CGYP-4	Boron	15	0	15	0.0	Yes	9.07E-05	-1010.670194	Yes	Theil-Sen (BootStrapped)	1475	8237.01844
CGYP-5	Boron	9	0	9	0.0	Yes	6.75E-01	-368.3908397	No	Normal	2493.802441	3992.864225
CGYP-6	Boron	16	0	16	0.0	Yes	7.85E-02	-992.9234167	No	Nonparametric	5124.286497	7318.746372
CGYP-7	Boron	9	0	9	0.0	Yes	3.33E-03	-1541.814342	Yes	Theil-Sen (BootStrapped)	7258.943089	12487.19512
CGYP-1	Cadmium	18	16	2	88.9	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-2	Cadmium	18	16	2	88.9	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-3	Cadmium	17	7	10	41.2	Yes	1.40E-01	-0.105892428	No	Lognormal	0.523736969	0.930467727
CGYP-4	Cadmium	14	13	1	92.9	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Cadmium	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Cadmium	15	14	1	93.3	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Cadmium	9	6	3	66.7	Insufficient Data	NE^	NE^	NE^	Central Tendency	0.943333333	NA
CGYP-1	Calcium	20	0	20	0.0	Yes	1.44E-01	-9.268413544	No	Lognormal	222.9505075	258.1716639
CGYP-2	Calcium	20	0	20	0.0	Yes	3.25E-05	-30.15304565	Yes	Theil-Sen (BootStrapped)	118.1824866	328.4838757
CGYP-3	Calcium	20	0	20	0.0	Yes	4.42E-02	-35.97459789	Yes	Theil-Sen (BootStrapped)	287.8443349	691.088211
CGYP-4	Calcium	15	0	15	0.0	Yes	1.63E-05	-42.28658533	Yes	Theil-Sen (BootStrapped)	68.3543956	349.6503008
CGYP-5	Calcium	9	0	9	0.0	Yes	1.00E+00	1.56E-08	No	Lognormal	187.4301608	215.6242445
CGYP-6	Calcium	16	0	16	0.0	Yes	8.68E-02	-34.24453587	No	Normal	392.3788088	450.9961912
CGYP-7	Calcium	9	0	9	0.0	Yes	2.86E-02	-52.25936346	Yes	Theil-Sen (BootStrapped)	237.4169184	439.2145015
CGYP-1	Chloride	20	0	20	0.0	Yes	3.30E-01	10.29503171	No	Nonparametric	657.1528481	722.1220353
CGYP-2	Chloride	20	0	20	0.0	Yes	5.17E-04	-23.36865016	Yes	Theil-Sen (BootStrapped)	-62.01178633	141.4447778
CGYP-3	Chloride	20	0	20	0.0	Yes	5.56E-02	-71.24245144	No	Gamma	993.2878355	1155.290589
CGYP-4	Chloride	15	0	15	0.0	Yes	4.47E-07	-129.4716982	Yes	Theil-Sen (BootStrapped)	-167.0405148	701.1674208
CGYP-5	Chloride	9	0	9	0.0	Yes	1.00E+00	-6.19589109	No	Normal	182.6847181	276.2041708
CGYP-6	Chloride	16	0	16	0.0	Yes	2.66E-02	-171.8580436	Yes	Theil-Sen (BootStrapped)	116.5759149	1593.339451
CGYP-7	Chloride	9	0	9	0.0	Yes	4.76E-02	-145.2658655	Yes	Theil-Sen (BootStrapped)	165.1551333	1083.212121
CGYP-1	Chromium	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-2	Chromium	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-3	Chromium	19	5	14	26.3	Yes	7.49E-01	-0.108495031	No	Lognormal	5.374465472	6.481794727
CGYP-4	Chromium	15	15	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Chromium	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Chromium	16	15	1	93.8	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Chromium	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-1	Cobalt	19	0	19	0.0	Yes	2.94E-01	-1.992202754	No	Normal	36.75363769	45.83688862
CGYP-2	Cobalt	19	0	19	0.0	Yes	7.84E-03	-1.908496725	Yes	Theil-Sen (BootStrapped)	-2.706727241	26.99085439
CGYP-3	Cobalt	19	0	19	0.0	Yes	1.74E-02	-14.98878771	Yes	Theil-Sen (BootStrapped)	-16.47586827	150.1983288
CGYP-4	Cobalt	15	0	15	0.0	Yes	7.53E-05	-7.528816956	Yes	Theil-Sen (BootStrapped)	-1.104370861	54.33591974
CGYP-5	Cobalt	9	0	9	0.0	Yes	4.66E-01	4.564120206	No	Nonparametric	44.20972516	68.59661734
CGYP-6	Cobalt	16	0	16	0.0	Yes	6.49E-02	-33.9481756	No	Nonparametric	112.0598415	158.0364007
CGYP-7	Cobalt	9	0	9	0.0	Yes	2.86E-02	-21.40217675	Yes	Theil-Sen (BootStrapped)	-46.75884615	119.2271587
CGYP-1	Fluoride	20	0	20	0.0	Yes	5.59E-01	0.035323828	No	Gamma	0.887586333	1.09997879
CGYP-2	Fluoride	20	2	18	10.0	Yes	4.55E-01	0.051720613	No	Normal	0.606979754	0.927180316
CGYP-3	Fluoride	20	1	19	5.0	Yes	7.45E-01	0.045698398	No	Lognormal	1.653455582	3.888953243
CGYP-4	Fluoride	15	0	15	0.0	Yes	1.75E-02	-0.28651873	Yes	Theil-Sen (BootStrapped)	-2.532943396	2.392906233
CGYP-5	Fluoride	9	0	9	0.0	Yes	4.02E-01	0.022078307	No	Normal	0.28952382	0.376031736
CGYP-6	Fluoride	16	0	16	0.0	Yes	1.33E-02	-0.177261943	Yes	Theil-Sen (BootStrapped)	-0.20990551	1.174902016
CGYP-7	Fluoride	9	0	9	0.0	Yes	3.48E-01	0.163311556	No	Lognormal	0.969694778	1.412001047
CGYP-1	Lead	19	0	19	0.0	Yes	9.63E-03	-2.726022038	Yes	Theil-Sen (BootStrapped)	-17.53947152	19.75163168
CGYP-2	Lead	18	0	18	0.0	Yes	1.11E-02	-2.022089751	Yes	Theil-Sen (BootStrapped)	9.801322764	27.291
CGYP-3	Lead	19	0	19	0.0	Yes	5.52E-01	-1.40384611	No	Nonparametric	19.01448114	29.69034591
CGYP-4	Lead	14	0	14	0.0	Yes	2.11E-02	-1.312179023	Yes	Theil-Sen (BootStrapped)	5.281132075	15.30993452
CGYP-5	Lead	9	0	9	0.0	Yes	1.14E-01	0.253199084	No	Lognormal	1.617228761	2.199943563

TABLE 1
APPENDIX IV STATISTICAL RESULTS
STATISTICAL ANALYSIS REPORT - FEBRUARY 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Well ID	Parameter	Number of Samples	Number of Non-Detects	Number of Detects	Percent Non-Detect	CI Calculation	P-Value	Sen's Slope	Mann-Kendall Trend	CI Method	LCL	UCL
CGYP-6	Lead	15	3	12	20.0	Yes	1.93E-02	-3.558579878	Yes	Theil-Sen (BootStrapped)	-4.261553171	18.76601597
CGYP-7	Lead	9	0	9	0.0	Yes	4.76E-02	-12.1121351	Yes	Theil-Sen (BootStrapped)	1.032183908	55.63109244
CGYP-1	Lithium	18	3	15	16.7	Yes	3.42E-01	-1.350792476	No	Normal	10.92890358	18.38431983
CGYP-2	Lithium	19	5	14	26.3	Yes	7.48E-01	-0.046144106	No	Nonparametric	5.218182458	15
CGYP-3	Lithium	19	0	19	0.0	Yes	8.58E-02	-9.437763061	No	Normal	60.30654385	84.61977194
CGYP-4	Lithium	15	0	15	0.0	Yes	1.00E+00	-5.35E-08	No	Normal	54.36355075	63.44978258
CGYP-5	Lithium	9	0	9	0.0	Yes	1.75E-01	2.24239325	No	Lognormal	62.09280661	73.50054321
CGYP-6	Lithium	16	0	16	0.0	Yes	2.59E-01	-25.85708014	No	Normal	93.02545053	141.3995495
CGYP-7	Lithium	8	0	8	0.0	Yes	5.36E-01	2.301208418	No	Gamma	9.298355731	13.31350289
CGYP-1	Mercury	19	18	1	94.7	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-2	Mercury	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-3	Mercury	19	16	3	84.2	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-4	Mercury	14	14	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Mercury	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Mercury	16	16	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Mercury	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-1	Molybdenum	16	16	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-2	Molybdenum	18	18	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-3	Molybdenum	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-4	Molybdenum	15	15	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Molybdenum	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Molybdenum	16	16	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Molybdenum	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-1	Radium	19	0	19	0.0	Yes	7.80E-01	0.050600704	No	Lognormal	3.615249973	4.426436928
CGYP-2	Radium	19	0	19	0.0	Yes	1.84E-01	0.146793413	No	Lognormal	2.239277765	2.966022246
CGYP-3	Radium	19	0	19	0.0	Yes	5.06E-01	-0.170672715	No	Lognormal	4.809995261	5.839653728
CGYP-4	Radium	15	0	15	0.0	Yes	1.54E-03	-1.373954409	Yes	Theil-Sen (BootStrapped)	-2.182601156	6.459984393
CGYP-5	Radium	9	0	9	0.0	Yes	9.17E-01	0.150892505	No	Lognormal	1.80590998	4.633599632
CGYP-6	Radium	16	0	16	0.0	Yes	2.17E-02	-1.19427407	Yes	Theil-Sen (BootStrapped)	-0.850361371	8.29524096
CGYP-7	Radium	9	0	9	0.0	Yes	2.51E-01	-0.594582774	No	Normal	4.785519272	6.31070295
CGYP-1	Selenium	17	11	6	64.7	Yes	5.38E-01	-2.079794747	No	Lognormal	7.067404063	16.01362762
CGYP-2	Selenium	17	13	4	76.5	Insufficient Data	NE^	NE^	NE^	Central Tendency	11.18235294	NA
CGYP-3	Selenium	17	14	3	82.4	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-4	Selenium	12	11	1	91.7	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Selenium	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Selenium	12	12	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Selenium	8	6	2	75.0	Insufficient Data	NE^	NE^	NE^	Central Tendency	9.89631427	NA
CGYP-1	Sulfate	20	0	20	0.0	Yes	6.73E-01	-6.560189996	No	Lognormal	403.7673379	476.3052509
CGYP-2	Sulfate	20	0	20	0.0	Yes	4.75E-01	-14.41253204	No	Lognormal	903.5941721	961.5217796
CGYP-3	Sulfate	20	0	20	0.0	Yes	7.70E-01	-4.793765113	No	Normal	938.9011207	978.5088793
CGYP-4	Sulfate	15	0	15	0.0	Yes	1.33E-02	-32.73978688	Yes	Theil-Sen (BootStrapped)	461.74189	649.8107573
CGYP-5	Sulfate	9	0	9	0.0	Yes	1.65E-02	30.5344575	Yes	Theil-Sen (BootStrapped)	356.7087459	371.2586622
CGYP-6	Sulfate	16	0	16	0.0	Yes	3.12E-04	51.19013327	Yes	Theil-Sen (BootStrapped)	156.0448555	86.29020985
CGYP-7	Sulfate	9	0	9	0.0	Yes	1.75E-01	-66.04166391	No	Normal	750.6368681	838.9186874
CGYP-1	TDS	20	0	20	0.0	Yes	8.55E-02	-64.36004267	No	Lognormal	1717.528245	1936.260956
CGYP-2	TDS	20	0	20	0.0	Yes	3.56E-04	-71.67255947	Yes	Theil-Sen (BootStrapped)	1135.737377	1674.581882
CGYP-3	TDS	20	0	20	0.0	Yes	2.52E-02	-215.3711401	Yes	Theil-Sen (BootStrapped)	1826.961082	4074.860592
CGYP-4	TDS	15	0	15	0.0	Yes	3.91E-05	-273.4238742	Yes	Theil-Sen (BootStrapped)	566.7699115	2174.737736
CGYP-5	TDS	9	0	9	0.0	Yes	2.51E-01	-87.08242365	No	Normal	1034.679044	1235.543178
CGYP-6	TDS	16	0	16	0.0	Yes	3.43E-02	-418.3158027	Yes	Theil-Sen (BootStrapped)	463.7343298	3707.400536
CGYP-7	TDS	9	0	9	0.0	Yes	1.65E-02	-466.990265	Yes	Theil-Sen (BootStrapped)	1103.795556	2874.779006
CGYP-1	Thallium	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-2	Thallium	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-3	Thallium	19	19	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-4	Thallium	15	15	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-5	Thallium	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-6	Thallium	16	16	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA
CGYP-7	Thallium	9	9	0	100.0	Insufficient Data	NE*	NE*	NE*	Not Calculated	NA	NA

Prepared by: SR Checked by: TWL

Notes:

LCL - Lower Confidence Limit

NE* - not established > 80% Non-Detect & < 4 Detects

NE^ - not evaluated (4 or Fewer Detects)

NA - not applicable

TDS - Total Dissolved Solids

UCL - Upper Confidence Limit

synTerra
Science & Engineering Consultants
148 River St., Suite 220, Greenville, SC 29601 | 864.421.9999

TECHNICAL MEMORANDUM

Date: December 1, 2025 File: 00.5237.06

To: Brian Holmes (Santee Cooper)
Melanie Goings (Santee Cooper)

From: Tim Grant (SynTerra)
Trevor Ludwick (SynTerra)

Subject: Statistical Analysis – June 2025 – Cross Generating Station Closed Gypsum Pond

INTRODUCTION

SynTerra prepared this technical memorandum to document the results of the statistical analysis performed using groundwater monitoring data through June 2025 to comply with the U.S. Environmental Protection Agency's (USEPA's) Coal Combustion Residual (CCR) Rule for the Closed Gypsum Pond at Cross Generating Station, in Pineville, South Carolina. The Closed Gypsum Pond is currently in the assessment monitoring program, in accordance with 40 Code of Federal Regulations (CFR) § 257.95.

Background values for Appendix III and IV constituents were previously updated using upgradient monitoring well analytical results collected from January 2015 through February 2025 to calculate tolerance intervals. The background values were used to update the comparison criteria for Appendix III constituents and to establish Groundwater Protection Standards (GWPS) for Appendix IV constituents. A background value update did not occur as part of this report, and the next background value update is planned to occur after the first semiannual CCR Rule monitoring event of 2027.

Statistical analysis pertaining to the June 2025 monitoring event was conducted on downgradient groundwater monitoring data in accordance with the USEPA's Unified Guidance (USEPA, 2009). Appendix III constituent analytical results from downgradient monitoring wells were compared to background values to determine if Statistically Significant Increases (SSIs) greater than background were identified in downgradient assessment monitoring wells. For Appendix IV constituents, Lower Confidence Limits (LCLs) were calculated using data collected from May 2020 through June 2025. A Statistically Significant Level (SSL) is identified in downgradient assessment monitoring wells if the LCL and the most recent monitoring event concentration included in the LCL calculation are both greater than the GWPS. Results of the analysis indicate that the following CCR Rule Appendix IV constituents are at SSLs greater than GWPSs in assessment monitoring wells:

- Beryllium – CGYP-3, CGYP-4, and CGYP-5
- Cobalt – CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, and CGYP-7
- Lead – CGYP-7
- Lithium – CGYP-4 and CGYP-5

The statistical approach used to evaluate groundwater monitoring data must be selected from a suite of methods provided in 40 CFR § 257.93(f) (1 through 5) and performed in accordance with a set of performance standards provided in 40 CFR § 257.93(g), as appropriate. Owners or operators of CCR units must receive certification from a qualified Professional Engineer (P.E.) indicating that the selected statistical methods are suitable for the analysis of groundwater data as well as provide a description of the statistical methods used for analysis [40 CFR § 257.93(f)(6)]. The selected statistical method was certified by a qualified P.E. on May 20, 2020, and posted to the public website. Tolerance intervals, in conjunction with LCLs, are the selected statistical methods used for evaluating groundwater data associated with the Closed Gypsum Pond. The CCR Rule assessment monitoring network for the Closed Gypsum Pond consists of the following wells:

- Upgradient background monitoring wells: CBW-1 and PM-1
- Downgradient assessment monitoring wells: CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, CGYP-6, and CGYP-7

Background monitoring wells and downgradient assessment monitoring wells were sampled in June 2025 as part of the second semiannual CCR Rule monitoring event. Analytical results from June 2025 are provided in Table 1.

PERFORMANCE STANDARDS

The statistical method selected to analyze groundwater monitoring data for the Closed Gypsum Pond was performed in compliance with the following performance standards, as appropriate [40 CFR § 257.93(g)]:

- Data distributions must be evaluated prior to statistical analysis. Normally distributed data will be analyzed using parametric methods. If data are non-normally distributed, mathematical functions must be applied to data in an attempt to transform data to fit the normal distribution. Non-parametric statistical analysis will be performed if transformations are unable to fit data to the normal distribution.
- If tolerance or prediction intervals are used, the selected confidence levels and coverage (for tolerance intervals) must result in the approach being at least as effective as the other methods outlined in 40 CFR § 257.93(f).
- Reporting limits used during statistical analysis must be the lowest achievable concentration within specified limits by laboratory analytical procedures and technology, and statistical tests must account for non-detect concentrations.
- Spatial and temporal variability along with temporal dependence must be corrected or controlled.

MANAGING NON-DETECT DATA

Concentrations between the lowest achievable value that can be quantitatively obtained by laboratory analytical procedures or technology (referred to as the reporting limit) and zero are associated with a high degree of uncertainty and are represented as non-detects. To account for non-detect values within the data set, non-detect values greater than the most recent reporting limit were removed from the data set and other non-detect values were set to the most recent reporting limit.

For LCL analysis data sets with greater than 0 percent and less than or equal to 80 percent non-detect values, either the Kaplan-Meier or the robust regression on order statistics were used to further adjust for non-detect values. Both methods rely on fitting data to a known distribution model to estimate values, so non-parametric LCLs do not use either non-detect adjustment method. The Kaplan-Meier method estimates the population mean and standard deviation, whereas robust regression on order statistics estimates values that can be imputed for each non-detect value. Both Kaplan-Meier and robust regression on order statistics methods assume data can be transformed to meet a distribution model.

SCREENING DATA SETS FOR OUTLIERS AND DATA VARIABILITY

Outliers are values that are not representative of the population from which they were sampled, and their presence in data sets contradicts the assumption that data are identically distributed. Prior to statistical analysis during detection and assessment monitoring, data for each specified downgradient well-constituent pair was screened for outliers visually using box-and-whisker plots (Appendix A; USEPA, 2009). The outlier values were reviewed to determine whether omission from the data set was warranted to maintain the overall power of the statistical method. No outliers for downgradient assessment monitoring wells were removed from the LCL analysis because there were no clear sampling errors. Outliers are preserved within the overall database and will be reevaluated as new data are obtained.

No seasonal patterns or autocorrelation (*i.e.*, measurements collected at different times correlating with one another) were visually present in the data sets (Appendix A). Note that if multiple samples were collected within 30 days of one another, only the most complete or first sample was kept for the LCL analysis to remove any potential autocorrelation.

To evaluate how constituent concentrations in groundwater have changed over time, two-sided Mann-Kendall trend tests were conducted and Theil-Sen trendlines were calculated. The Mann-Kendall trend test is a non-parametric test for monotonic (solely decreasing or increasing) trends and identifies whether a trend exists. If the trend is statistically significant (p-value less than or equal to 0.05), a Theil-Sen trendline was calculated to estimate the slope of the trend. The Theil-Sen is a robust non-parametric model of how the median (50^{th} percentile) concentration changes linearly with time. Unlike the ordinary least squares linear model, a Theil-Sen regression does not depend on a normal distribution and is not strongly affected by outliers, making it a useful tool for environmental data. The slope of the Theil-Sen trendline provides a statistical quantification of the magnitude of a trend identified in the data.

For data sets with greater than 10 percent and less than or equal to 80 percent non-detect values, a modified version of the Theil-Sen line called the Akritas-Theil-Sen was used for trend analysis (Helsel, 2012). For data sets with more than 80 percent non-detect data or less than five detected concentrations, Mann-Kendall trend tests were not conducted and Theil-Sen trendlines were not calculated. Time series plots that include Man Kendall trend results and Theil-Sen lines are included as Appendix A.

EVALUATING DATA SET DISTRIBUTION

Many statistical tests make assumptions that rely on the tendencies of known data set distributions. Therefore, data must be assessed to determine the appropriate distribution model (*e.g.*, normal distribution) [40 CFR § 257.93(g)(1)]. For the LCL analysis, constituent-well pair data sets with sufficient detected data (less than or equal to 80 percent non-detects and at least 5 detected concentrations) that did not have a statistically significant trend were fitted to known distribution models using Goodness-of-

Fit (GOF) tests. GOF tests evaluate how closely a data set resembles a distribution model. The distribution models under consideration for the determination of groundwater values are normal, lognormal, and gamma distributions. To assess if data set distributions are normally or lognormally distributed, the Shapiro-Wilk GOF test was used. Data sets were evaluated for gamma distribution using the Anderson-Darling test. GOF tests were performed using a significance level of 0.05. CCR Rule Appendix IV parameter GOF test conclusions for downgradient assessment monitoring well data are provided in Appendix B. If data sets failed to meet the tested distributional models, statistical analysis was performed using non-parametric distributions or procedures.

STATISTICAL BACKGROUND VALUES

Statistical background values were not updated as part of this report. CCR Rule background monitoring well analytical results from January 2015 through February 2025 were previously used to establish statistical background values for the Cross Generating Station, per 40 CFR § 257.91(a)(1). Interwell tolerance intervals were the method used to establish the background values for CCR Rule Appendix III and IV constituents, as described below.

Although statistical analysis for CCR Rule Appendix III constituents is not required during assessment monitoring, results and comparison to background values are provided for completeness. The interwell tolerance interval was selected as the statistical method used to establish background values. Tolerance intervals provide a range of values in which a specified proportion (referred to as coverage) of data will reside with some level of confidence. A one-sided tolerance interval is referred to as a tolerance limit. The Upper Tolerance Limit (UTL) is of interest for monitoring because the concern is for concentrations greater than the value, except for pH. The only constituent that requires both upper and lower tolerance limits is pH, because the comparison criteria for pH is established as a range of values. The tolerance limit coverages and confidence levels comply with the guidance set forth in 40 CFR § 257.93(g)(4).

Tolerance intervals are used instead of prediction intervals to establish background values because:

- Resampling and retesting does not occur during detection monitoring at the facility.
- Comparisons between tolerance and prediction intervals indicate that a tolerance interval constructed using a coverage of at least 90 percent and confidence level of 95 percent yield similar power and accuracy to that of a prediction interval with a 1-of-2 retesting scheme.
- Both non-parametric prediction intervals and non-parametric tolerance intervals are often represented by the maximum concentration value within a data set.

Previous and current background values for CCR Rule Appendix III constituents are presented in Table 2. For Appendix IV constituents, if the background value for a constituent was greater than its Maximum Contaminant Level (MCL) or the value identified in 40 CFR § 257.95(h)(2) for cobalt, lead, lithium, and molybdenum, the background value was used as the GWPS. The updated GWPSs for antimony, arsenic, beryllium, thallium, and total radium are the background values. Updated GWPSs and previous background values are presented in Table 3.

The Unified Guidance recommends updating background values every four to eight sampling events (USEPA, 2009). The next background value update is planned to occur after the first semiannual CCR Rule monitoring event of 2027.

STATISTICAL ANALYSIS OF DOWNGRADIENT DATA

CCR Rule Appendix III analytical results are compared to UTLs (upper and lower tolerance intervals for pH) to determine whether constituents are reported at an SSI greater than background. Bold, highlighted results in Table 4 indicate constituent concentrations at SSIs greater than background values.

CCR Rule Appendix IV constituent LCLs were calculated for each downgradient well, where appropriate, using data collected in assessment monitoring through June 2025 (Appendix B). For well-constituent pairs with greater than 80 percent non-detects and less than four detects, LCLs were not calculated and LCLs were set to be less than the most recent reporting limit. For well-constituent pairs with statistically significant trends (Appendix A and B), a bootstrapped LCL was constructed using the Theil-Sen line. In instances where the Theil-Sen bootstrapped LCL did not adequately represent constituent concentrations (usually due to non-linear concentration changes), a non-parametric data distribution was used for the LCL calculation. Otherwise, well-constituent pair LCLs were calculated using their best fit data distributions (normal, gamma, lognormal, or non-parametric). Lastly, central tendency values were calculated and set as the LCL when the well-constituent pair data sets consisted of four or fewer detects and less than or equal to 80 percent non-detects. If a calculated LCL was less than the most recent reporting limit, the LCL was set to be equivalent to the reporting limit. All LCLs except for central tendency LCLs were calculated with 95 percent confidence (percent confidence not applicable for central tendency calculations).

A comparison of the LCLs to the GWPSs is provided in Table 5. An SSL is identified when the LCL and the most recent monitoring event concentration included in the LCL calculation (June 2025; Table 1) are both greater than the GWPS for an Appendix IV constituent. Bold, orange highlighted results in Table 5 indicate constituent concentrations at SSLs greater than GWPSs. Bold, gray highlighted results in Table 5 indicate that the June 2025 concentration (Table 1) or the LCL (Appendix B and Table 5) for the Appendix IV constituent is greater than the GWPS, but both values are not greater than the GWPS.

ATTACHMENTS

Table 1	Table of Recorded Concentrations
Table 2	Appendix III Statistical Background Values
Table 3	Groundwater Protection Standards
Table 4	Appendix III Analytical Results – June 2025
Table 5	Appendix IV Statistical Results – June 2025
Appendix A	Time Series Plots
Appendix B	Lower Confidence Limit Summary

REFERENCES

Helsel, D.R. (2012). *Statistics for Censored Environmental Data Using Minitab and R. 2nd Edition*, John Wiley & Sons, Hoboken, New Jersey.

USEPA. (2009). *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, March 2009.* EPA 530-R-09-007.

TABLES

TABLE 1
TABLE OF RECORDED CONCENTRATIONS
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Analytical Parameter		Appendix III Parameters 40 CFR § 257.95(d)(1)							Appendix IV Parameters 40 CFR § 257.95(d)(1)													
		pH	Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Total Radium
Reporting Units		S.U.	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L
Well ID	Sample Date	Analytical Results																				
CBW-1*	6/3/2025	4.69	21.2	21.7	3.65	0.11	83.9	167.5	6.0	<5.0	37.9	<0.5	<0.5	<5.0	1.1	0.11	2.4	<5.0	<0.2	<5.0	<10.0	<1.0	0.991
CGYP-1	6/5/2025	4.33	7230	171	596	0.90	376	1410	<5.0	9.3	51.4	3.7	<0.5	<5.0	31.3	0.90	15.0	12.8	<0.2	<5.0	<10.0	<1.0	4.62
CGYP-2	6/5/2025	4.01	873	170	48.2	0.68	675	1098	<5.0	10.9	16.6	1.9	<0.5	<5.0	16.2	0.68	13.4	15.6	<0.2	<5.0	<10.0	<1.0	3.00
CGYP-3	6/5/2025	4.38	14400	488	934	1.39	801	3012	5.1	8.3	63.0	12.7	<0.5	5.5	54.5	1.39	12.0	35.6	<0.2	<5.0	<10.0	<1.0	5.69
CGYP-4	6/5/2025	3.82	4060	189	257	1.07	468	1062	<5.0	<5.0	23.7	8.8	<0.5	<5.0	25.5	1.07	7.7	50.9	<0.2	<5.0	<10.0	<1.0	11.7
CGYP-5	6/11/2025	4.23	1420	169	120	0.38	372	822.5	<5.0	<5.0	23.7	9.4	<0.5	<5.0	41.7	0.38	1.9	60.8	<0.2	<5.0	<10.0	<1.0	2.24
CGYP-6	6/11/2025	6.64	839	333	140	0.13	532	1382	<5.0	<5.0	78.3	<0.5	<0.5	<5.0	5.0	0.13	<1.0	13.9	<0.2	<5.0	<10.0	<1.0	2.03
CGYP-7	6/5/2025	4.08	7800	309	27.0	0.77	698	1712	5.1	17.4	23.9	5.0	<0.5	<5.0	45.9	0.77	21.3	14.1	<0.2	<5.0	<10.0	<1.0	6.26
PM-1*	6/2/2025	5.21	13.4	20.3	11.2	<0.10	16.8	175.0	5.7	<5.0	86.9	<0.5	<0.5	<5.0	1.7	<0.10	<1.0	<5.0	<0.2	<5.0	<10.0	<1.0	1.22

Prepared by: TWL Checked by: CSB

Notes:

* - Denotes a CCR Rule background monitoring well.
CGYP-6 was replaced in May 2024 to facilitate expansion of the wastewater treatment facility.
< - Concentration not detected at or above the adjusted reporting limit.
µg/L - micrograms per liter
CCR - coal combustion residuals
CFR - Code of Federal Regulations
mg/L - milligrams per liter
pCi/L - picocuries per liter
S.U. - standard units
total radium - radium-226 and radium-228 combined

TABLE 2
APPENDIX III STATISTICAL BACKGROUND VALUES
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Constituent	Previous Background Values[1]	Updated Background Values[2]	Distribution	Coverage (%)
pH (standard units)	4.09 - 5.58	4.09 - 5.58	Non-Parametric	90
Boron (µg/L)	836	836	Non-Parametric	90
Calcium (mg/L)	119	42.2	Non-Parametric	90
Chloride (mg/L)	13.5	13.4	Non-Parametric	90
Fluoride (mg/L)	0.3	0.28	Normal	95
Sulfate (mg/L)	115	97.1	Non-Parametric	90
Total Dissolved Solids (mg/L)	205.3	205.1	Normal	95

Prepared by: TWL Checked by: CSB

Notes:

Background values are based on interwell upper tolerance limits (UTLs) calculated using pooled upgradient background well data. A lower tolerance limit (LTL) is also included for pH.

Background monitoring wells: CBW-1 and PM-1

For non-parametric distributions, a 90 percent (%) coverage tolerance limit was calculated due to sample sizes not being large enough for a 95% coverage tolerance limit (requires 60 samples).

Goodness of fit tests at a significance level of 0.05 were used. If the data could not be fitted to a known distribution (normal, gamma, or lognormal), non-parametric tolerance limits were calculated.

95% confidence levels were used for the tolerance limits.

[1] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through October 2022.

[2] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through February 2025.

µg/L - micrograms per liter

mg/L - milligrams per liter

TABLE 3
GROUNDWATER PROTECTION STANDARDS
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Constituent	Previous Background Values[1]	Updated Background Values[2]	MCL	CCR-Rule Specified[3]	Updated GWPS
Antimony (µg/L)	5	**25**	6	---	25
Arsenic (µg/L)	16	**16**	10	---	16
Barium (µg/L)	103	103	**2000**	---	2000
Beryllium (µg/L)	0.63	**5**	4	---	5
Cadmium (µg/L)	0.5	5	**5**	---	5
Chromium (µg/L)	14	14	**100**	---	100
Cobalt (µg/L)	3.4	5	NE	**6**	6
Fluoride (mg/L)	0.3	0.28	**4**	---	4
Lead (µg/L)	11	11	NE	**15**	15
Lithium (µg/L)	5.4	20	NE	**40**	40
Mercury (µg/L)	0.2	1	**2**	---	2
Molybdenum (µg/L)	5	20	NE	**100**	100
Selenium (µg/L)	10	50	**50**	---	50
Thallium (µg/L)	1	**10**	2	---	10
Total Radium (pCi/L)	16.3	**16.3**	5	---	16.3

Prepared by: TWL Checked by: CSB

Notes

Bold value for each constituent represents the greater of the background value, MCL, or CCR-Rule specified value.
The greatest value is the established GWPS.

[1] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through October 2022.

[2] - Statistical background values were calculated using data collected from upgradient background wells from January 2015 through February 2025.

[3] - Represents the value identified in 40 Code of Federal Regulations (CFR) § 257.95(h)(2).

Background values are based on interwell tolerance limits calculated using pooled upgradient background well data.

--- - No value specified in the CCR Rule.

µg/L - micrograms per liter

CCR - coal combustion residuals

GWPS - Groundwater Protection Standards

MCL - maximum contaminant level

mg/L - milligrams per liter

NE - not established

pCi/L - picocuries per liter

total radium - radium-226 and radium-228 combined

TABLE 4
APPENDIX III ANALYTICAL RESULTS - JUNE 2025
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Analytical Parameter		Appendix III Parameters 40 CFR § 257.95(d)(1)						
		pH	Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids
Reporting Units		S.U.	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Comparison Criteria		4.09 - 5.58*	836*	42.2*	13.4*	0.28*	97.1*	205.1*
Well ID	Sample Date	Analytical Results						
CGYP-1	6/5/2025	4.33	**7230**	**171**	**596**	**0.90**	**376**	**1410**
CGYP-2	6/5/2025	**4.01**	**873**	**170**	**48.2**	**0.68**	**675**	**1098**
CGYP-3	6/5/2025	4.38	**14400**	**488**	**934**	**1.39**	**801**	**3012**
CGYP-4	6/5/2025	**3.82**	**4060**	**189**	**257**	**1.07**	**468**	**1062**
CGYP-5	6/11/2025	4.23	**1420**	**169**	**120**	**0.38**	**372**	**822.5**
CGYP-6	6/11/2025	**6.64**	**839**	**333**	**140**	0.13	**532**	**1382**
CGYP-7	6/5/2025	**4.08**	**7800**	**309**	**27.0**	**0.77**	**698**	**1712**

Prepared by: TWL Checked by: CSB

Notes:

- Blue highlighted cells with bold values indicate the reported concentration for the Appendix III parameter is greater than the comparison criteria (for pH, greater than or less than the comparison criteria range).

* - Appendix III parameters comparison criteria are interwell tolerance limits calculated using pooled upgradient background well data.

Background monitoring wells: CBW-1 and PM-1

CGYP-6 was replaced in May 2024 to facilitate expansion of the wastewater treatment facility.

µg/L - micrograms per liter

CFR - Code of Federal Regulations

mg/L - milligrams per liter

S.U. - standard units

TABLE 5
APPENDIX IV STATISTICAL RESULTS - JUNE 2025
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Analytical Parameter	Appendix IV Parameters 40 CFR § 257.95(d)(1)														
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Total Radium
Reporting Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pCi/L
Comparison Criteria	25[#]	16[#]	2000[+]	5[#]	5[+]	100[+]	6[^]	4[+]	15[^]	40[^]	2[+]	100[^]	50[+]	10[#]	16.3[#]
Well ID	Analytical Results														
CGYP-1	< 5	9.3	42.5	**6.6**	< 0.5	< 5	**24.0**	0.85	8.1	12.8	< 0.2	< 5	10.0	< 1	3.8
CGYP-2	< 5	9.9	15.6	1.2	< 0.5	< 5	**17.2**	0.61	11.8	10.9	< 0.2	< 5	10.0	< 1	2.3
CGYP-3	< 5	5.0	35.4	**22.5**	0.50	5.2	**53.5**	1.4	**21.3**	**50.3**	< 0.2	< 5	< 10	< 1	4.7
CGYP-4	< 5	5.0	10.0	**8.4**	< 0.5	< 5	**25.9**	1.3	6.9	**53.4**	< 0.2	< 5	< 10	< 1	3.2
CGYP-5	< 5	< 5	33.9	**7.8**	< 0.5	< 5	**42.9**	0.30	1.6	**59.7**	< 0.2	< 5	< 10	< 1	1.8
CGYP-6	< 5	< 5	92.8	**8.5**	< 0.5	< 5	**6.3**	0.10	1.0	**80.3**	< 0.2	< 5	< 10	< 1	0.52
CGYP-7	5.0	**13.6**	22.6	5.0	0.94	< 5	**41.4**	0.94	**23.1**	9.6	< 0.2	< 5	10.0	< 1	4.8

Prepared by: TWL Checked by: CSB

Notes:

- Orange highlighted cells with bold values indicate the June 2025 concentration (Table 1) and the lower confidence limit for the Appendix IV parameter are both greater than the comparison criteria.
- Gray highlighted cells with bold values indicate the June 2025 concentration (Table 1) or the lower confidence limit for the Appendix IV parameter is greater than the comparison criteria, but both values are not greater than the comparison criteria.

Appendix IV confidence limits were calculated using data collected from May 2020 through June 2025 (Appendix B).

A statistically significant level (SSL) is only identified when the concentration and the lower confidence limit for a parameter are both greater than the comparison criteria.

Background wells: PM-1 and CBW-1

CGYP-6 was replaced in May 2024 to facilitate expansion of the wastewater treatment facility.

< - Lower confidence limit was not calculated due to an insufficient number of detected concentrations. The concentrations are mostly less than the most recent reporting limit.

[^] - GWPS represents the value prescribed under 40 CFR § 257.95(h)(2).

[#] - GWPS for the constituent is the Upper Tolerance Limit (UTL) calculated using upgradient background well data collected from October 2015 through February 2025. The UTL for the constituent is greater than the MCL.

[+] - GWPS represents the USEPA maximum contaminant level (MCL).

µg/L - micrograms per liter

CFR - Code of Federal Regulations

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

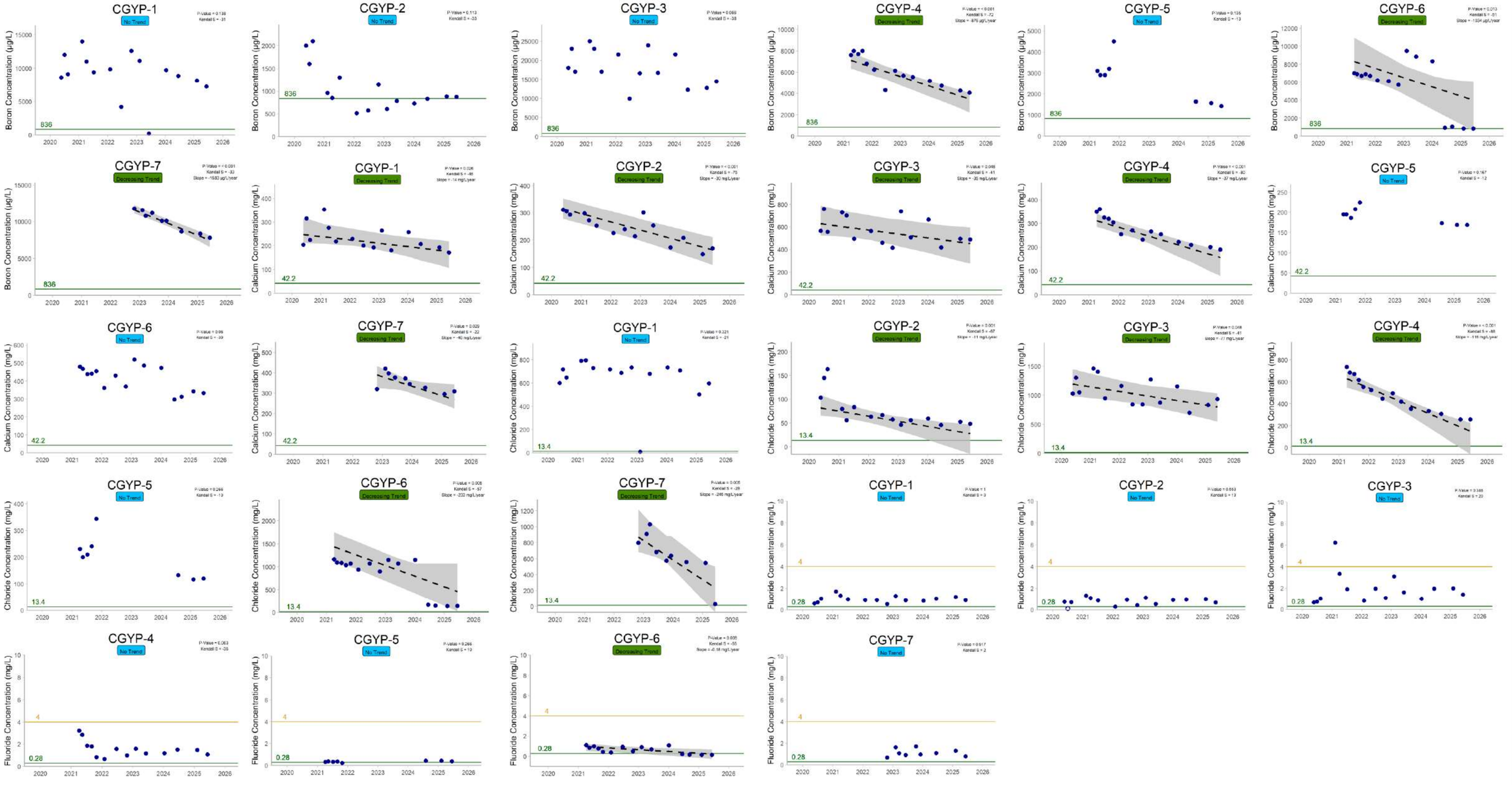
pCi/L - picocuries per liter

total radium - radium-226 and radium-228 combined

USEPA - U.S. Environmental Protection Agency

APPENDIX A

TIME SERIES PLOTS



LEGEND

- Groundwater Protection Standard (GWPS)
- Calculated Background Value
- Estimated Theil-Sen Trend Line
- Detected Concentration Data
- Censored Data (non-detect)
- 95 % Confidence Interval for Theil-Sen Line

Notes:

Trend analyses (Theil-Sen trend line and Mann-Kendall test results) were prepared using applicable data collected from May 2020 through June 2025.

P-values less than or equal to 0.05 for the two-sided Mann-Kendall test indicate a statistically significant monotonic trend. The Kendall score (S) provides info on the trend direction and strength (even if not statistically significant). If S is negative, there is a decreasing trend. If S is positive, there is an increasing trend. An S value closer to zero indicates a weaker trend or lack thereof.

Estimated Theil-Sen trend lines and associated slopes (*i.e.*, trend magnitudes) are included for statistically significant trends only. Theil-Sen line confidence intervals calculated using bootstrap method (n = 1000).

The Groundwater Protection Standard (GWPS) for Fluoride is the maximum contaminant level (MCL).

µg/L - micrograms per liter

mg/L - milligrams per liter

santee cooper®

synTerra

DRAWN BY: T. LUDWICK DATE: 11/03/2025

REVISED BY: T. LUDWICK DATE: 11/03/2025

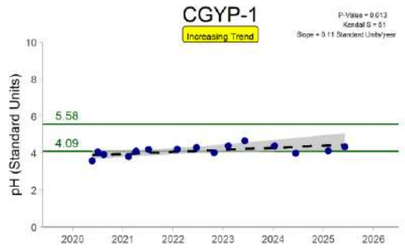
CHECKED BY: C. BARKER DATE: 11/05/2025

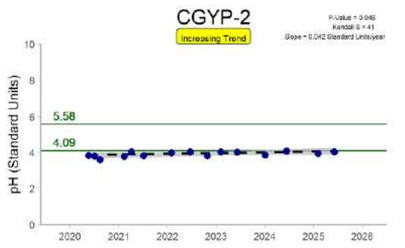
APPROVED BY: T. GRANT

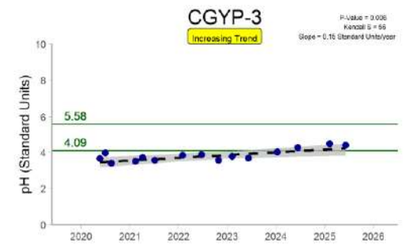
PROJECT MANAGER: T. GRANT

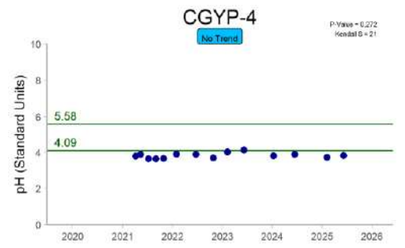
www.synterracorp.com

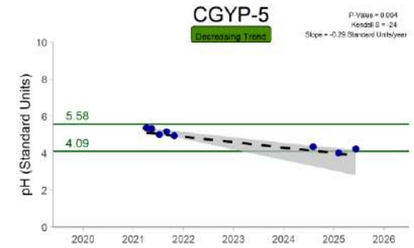
FIGURE 1A
TIME SERIES PLOTS - APPENDIX III
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

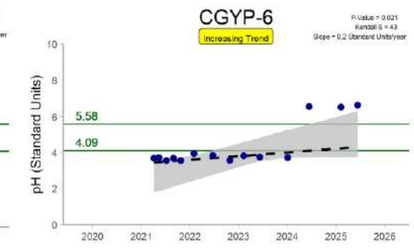


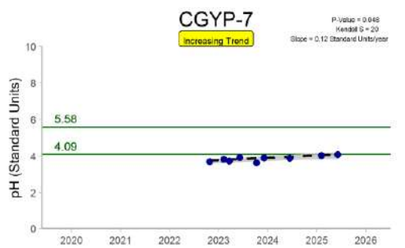


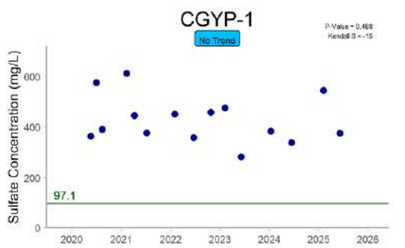


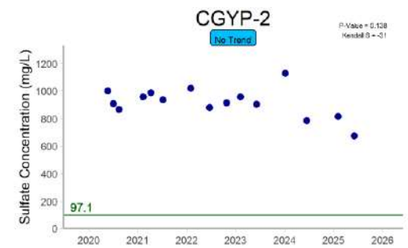


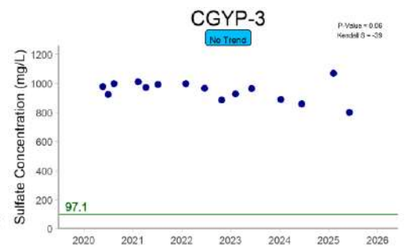


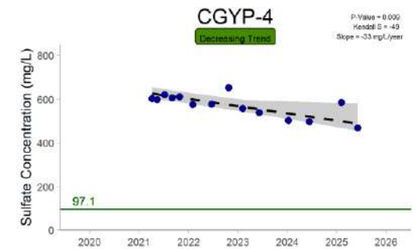


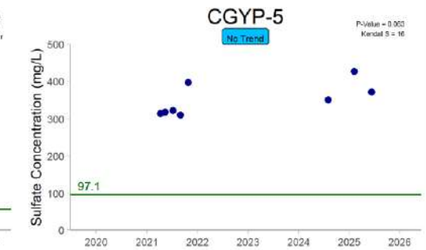


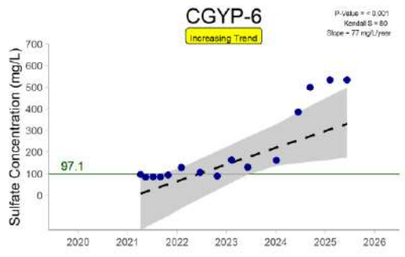


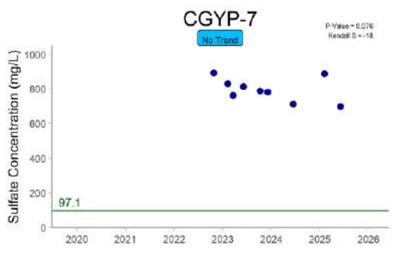


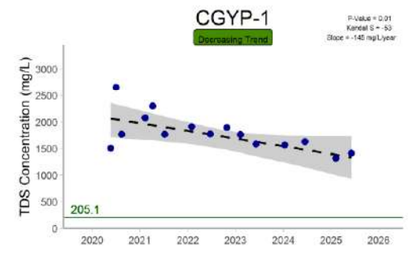


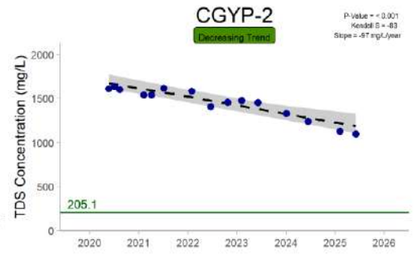


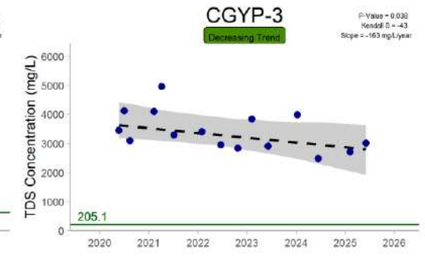


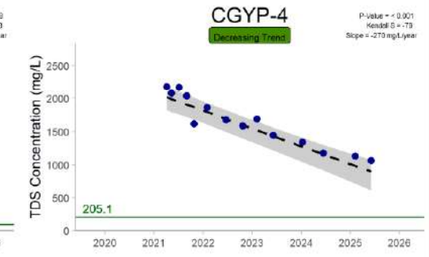


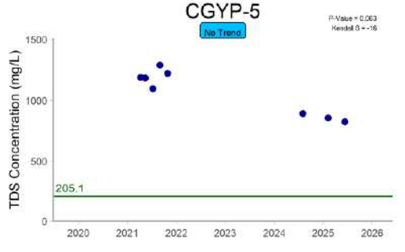


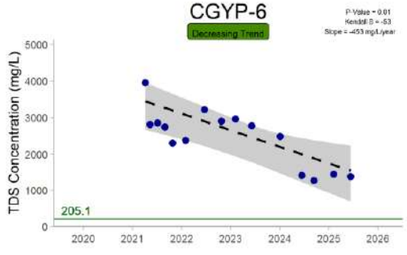


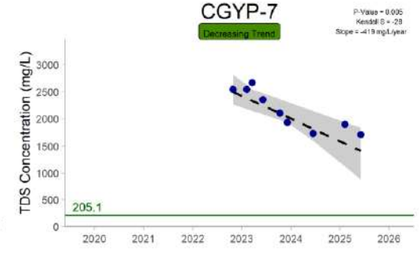












LEGEND

- Calculated Background Value
- Estimated Theil-Sen Trend Line
- Detected Concentration Data
- 95 % Confidence Interval for Theil-Sen Line

Notes:

Trend analyses (Theil-Sen trend line and Mann-Kendall test results) were prepared using applicable data collected from May 2020 through June 2025.

P-values less than or equal to 0.05 for the two-sided Mann-Kendall test indicate a statistically significant monotonic trend. The Kendall score (S) provides info on the trend direction and strength (even if not statistically significant). If S is negative, there is a decreasing trend. If S is positive, there is an increasing trend. An S value closer to zero indicates a weaker trend or lack thereof.

Estimated Theil-Sen trend lines and associated slopes (*i.e.*, trend magnitudes) are included for statistically significant trends only. Theil-Sen line confidence intervals calculated using bootstrap method (n = 1000).

mg/L - milligrams per liter

TDS - total dissolved solids

santee cooper

synTerra

DRAWN BY: T. LUDWICK DATE: 11/03/2025

REVISED BY: T. LUDWICK DATE: 11/03/2025

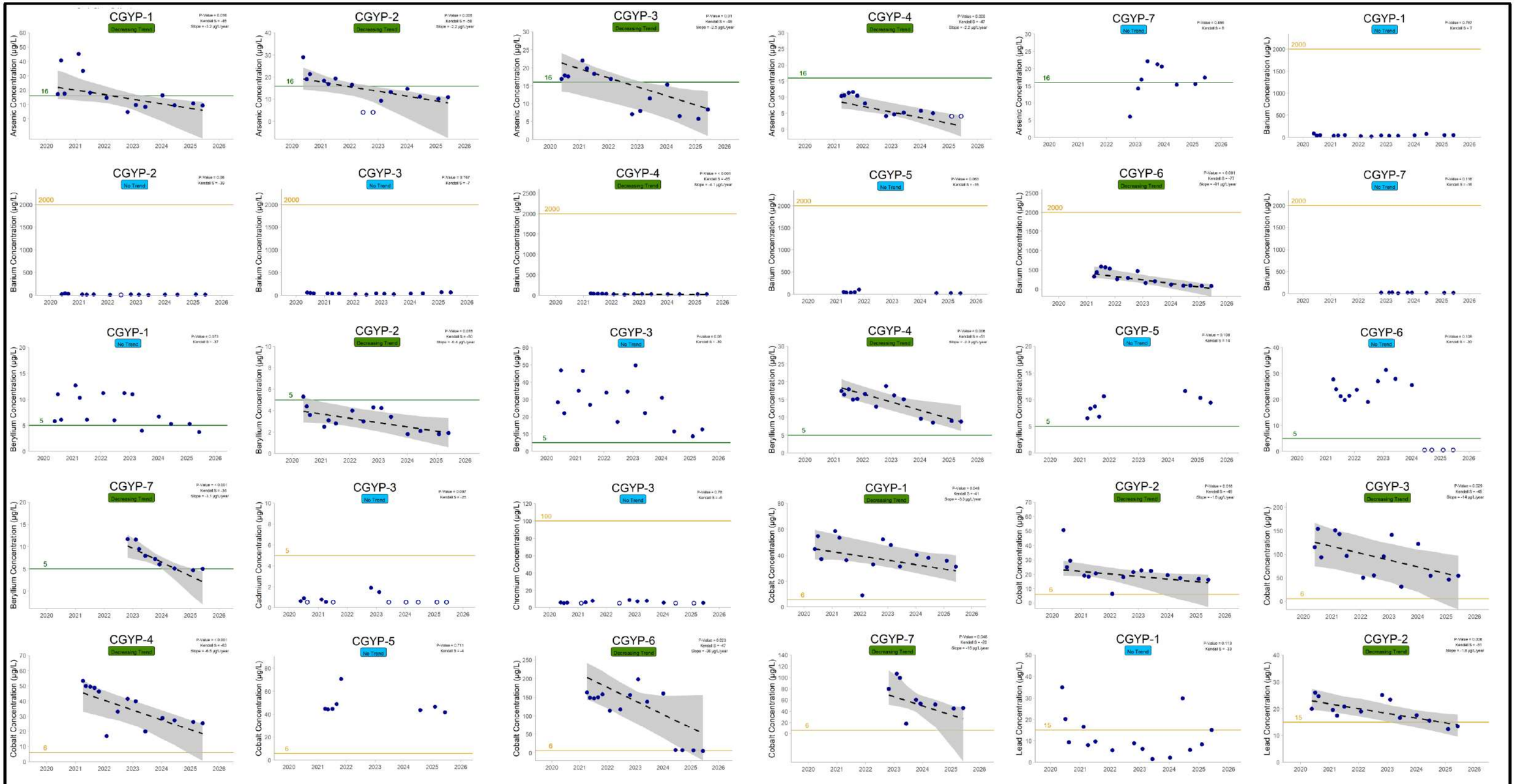
CHECKED BY: C. BARKER DATE: 11/05/2025

APPROVED BY: T. GRANT

PROJECT MANAGER: T. GRANT

www.synterracorp.com

FIGURE 1B
TIME SERIES PLOTS - APPENDIX III
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA



LEGEND

- Groundwater Protection Standard (GWPS)[1]
- Groundwater Protection Standard (GWPS)[2]
- Estimated Theil-Sen Trend Line
- Detected Concentration Data
- Censored Data (non-detect)
- 95 % Confidence Interval for Theil-Sen Line

Notes:

Trend analyses (Theil-Sen trend line and Mann-Kendall test results) were prepared using applicable data collected from May 2020 through June 2025.

P-values less than or equal to 0.05 for the two-sided Mann-Kendall test indicate a statistically significant monotonic trend. The Kendall score (S) provides info on the trend direction and strength (even if not statistically significant). If S is negative, there is a decreasing trend. If S is positive, there is an increasing trend. An S value closer to zero indicates a weaker trend or lack thereof.

Estimated Theil-Sen trend lines and associated slopes (*i.e.*, trend magnitudes) are included for statistically significant trends only. Theil-Sen line confidence intervals calculated using bootstrap method (n = 1000).

1 - Groundwater Protection Standard (GWPS) is the maximum contaminant level (MCL) or the value identified in 40 Code of Federal Regulations (CFR) § 257.95(h)(2).

2 - Groundwater Protection Standard (GWPS) is the calculated background value.

µg/L - micrograms per liter

santee cooper®

synTerra

DRAWN BY: T. LUDWICK DATE: 11/03/2025

REVISED BY: T. LUDWICK DATE: 11/03/2025

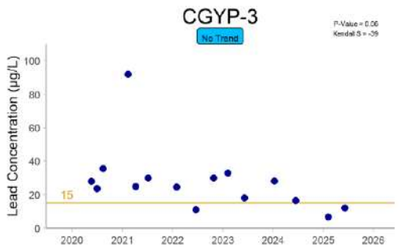
CHECKED BY: C. BARKER DATE: 11/05/2025

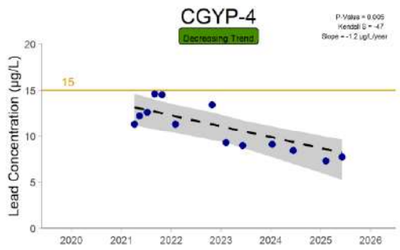
APPROVED BY: T. GRANT

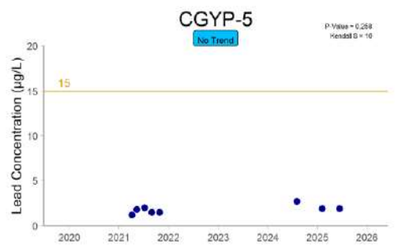
PROJECT MANAGER: T. GRANT

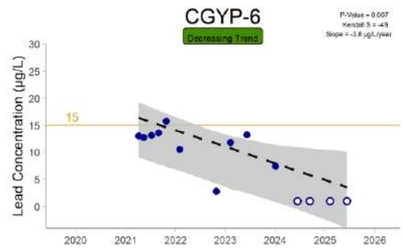
www.synterracorp.com

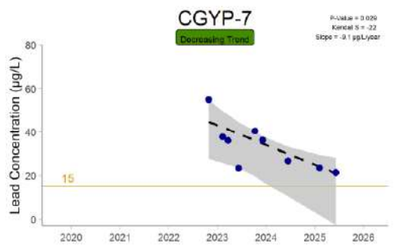
FIGURE 2A
TIME SERIES PLOTS - APPENDIX IV
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

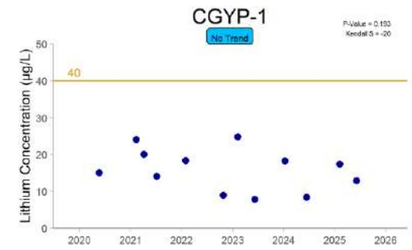


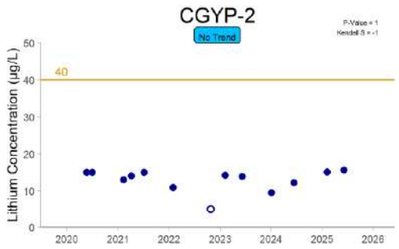


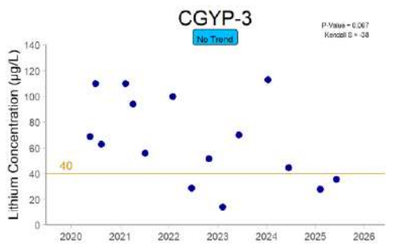


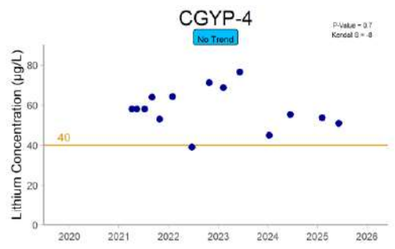


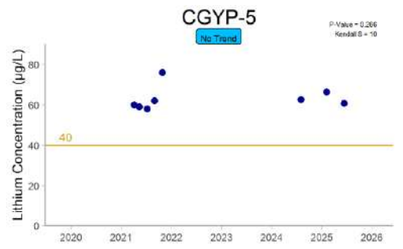


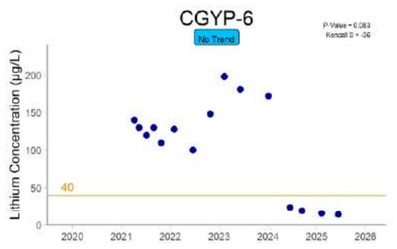


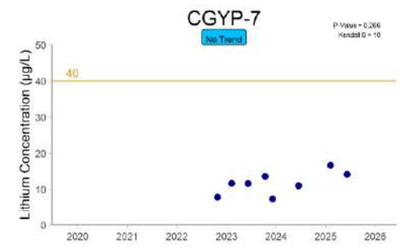


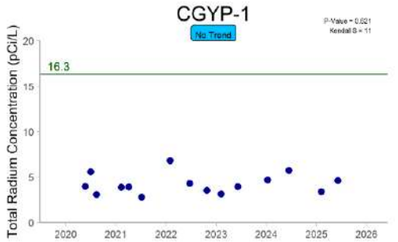


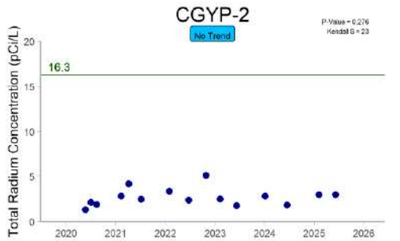


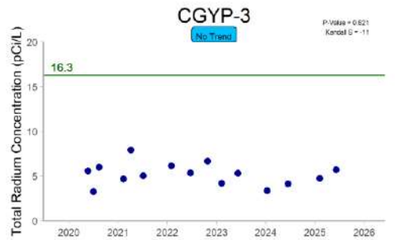


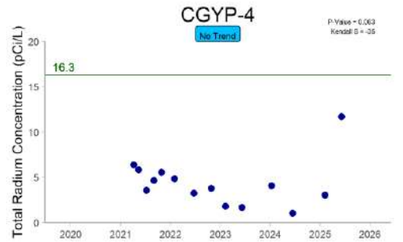


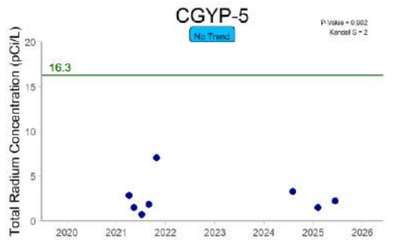


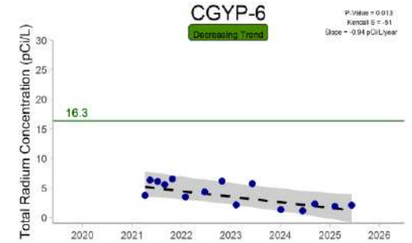


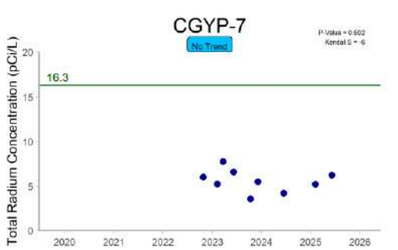


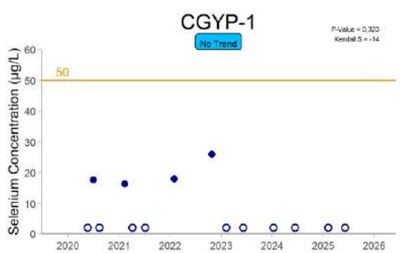












LEGEND

- Groundwater Protection Standard (GWPS)[1]
- Groundwater Protection Standard (GWPS)[2]
- Estimated Theil-Sen Trend Line
- Detected Concentration Data
- Censored Data (non-detect)
- 95 % Confidence Interval for Theil-Sen Line

Notes:

Trend analyses (Theil-Sen trend line and Mann-Kendall test results) were prepared using applicable data collected from May 2020 through June 2025.

P-values less than or equal to 0.05 for the two-sided Mann-Kendall test indicate a statistically significant monotonic trend. The Kendall score (S) provides info on the trend direction and strength (even if not statistically significant). If S is negative, there is a decreasing trend. If S is positive, there is an increasing trend. An S value closer to zero indicates a weaker trend or lack thereof.

Estimated Theil-Sen trend lines and associated slopes (*i.e.*, trend magnitudes) are included for statistically significant trends only. Theil-Sen line confidence intervals calculated using bootstrap method (n = 1000).

1 - Groundwater Protection Standard (GWPS) is the maximum contaminant level (MCL) or the value identified in 40 Code of Federal Regulations (CFR) § 257.95(h)(2).

2 - Groundwater Protection Standard (GWPS) is the calculated background value.

µg/L - micrograms per liter pCi/L - picocuries per liter total radium – radium-226 and radium-228 combined

santee cooper®

synTerra

DRAWN BY: T. LUDWICK DATE: 11/03/2025

REVISED BY: T. LUDWICK DATE: 11/03/2025

CHECKED BY: C. BARKER DATE: 11/05/2025

APPROVED BY: T. GRANT

PROJECT MANAGER: T. GRANT

www.synterracorp.com

FIGURE 2B
TIME SERIES PLOTS - APPENDIX IV
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

APPENDIX B

LOWER CONFIDENCE LIMIT SUMMARY

TABLE 1
LOWER CONFIDENCE LIMIT SUMMARY
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Well ID	Constituent	Number of Samples	Number of Non-Detects	Number of Detects	Percent Non-Detect	LCL Calculation	P-Value	Sen's Slope	Mann-Kendall Trend	LCL Method	LCL
CGYP-1	Antimony	15	13	2	86.7	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-2	Antimony	15	14	1	93.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-3	Antimony	15	14	1	93.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-4	Antimony	14	13	1	92.9	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Antimony	8	7	1	87.5	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Antimony	15	14	1	93.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Antimony	9	6	3	66.7	Insufficient Data	NA	NA	NA	Central Tendency	5
CGYP-1#	Arsenic	14	0	14	0.0	Yes	1.60E-02	-3.195259057	Yes	Non-parametric	9.340923
CGYP-2#	Arsenic	15	2	13	13.3	Yes	4.74E-03	-2.18540228	Yes	Non-parametric	9.896732
CGYP-3	Arsenic	14	0	14	0.0	Yes	9.97E-03	-2.546511646	Yes	Theil-Sen (BootStrapped)	5
CGYP-4	Arsenic	13	2	11	15.4	Yes	4.93E-03	-2.173071276	Yes	Theil-Sen (BootStrapped)	5
CGYP-5	Arsenic	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Arsenic	14	14	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Arsenic	9	0	9	0.0	Yes	4.66E-01	1.080418933	No	Normal	13.55305757
CGYP-1	Barium	15	0	15	0.0	Yes	7.67E-01	0.401834877	No	Lognormal	42.52219101
CGYP-2	Barium	15	1	14	6.7	Yes	6.00E-02	-2.187231406	No	Lognormal	15.61833672
CGYP-3	Barium	15	0	15	0.0	Yes	7.67E-01	-0.686090253	No	Gamma	35.44408249
CGYP-4	Barium	14	0	14	0.0	Yes	4.59E-04	-4.116785107	Yes	Theil-Sen (BootStrapped)	10
CGYP-5	Barium	8	0	8	0.0	Yes	6.35E-02	-4.20265997	No	Lognormal	33.91470552
CGYP-6#	Barium	15	0	15	0.0	Yes	1.69E-04	-90.84202685	Yes	Non-parametric	92.75239
CGYP-7	Barium	9	0	9	0.0	Yes	1.18E-01	-1.806478887	No	Non-parametric	22.62642706
CGYP-1	Beryllium	15	0	15	0.0	Yes	7.34E-02	-0.701923076	No	Lognormal	6.552883864
CGYP-2	Beryllium	15	0	15	0.0	Yes	1.52E-02	-0.40208071	Yes	Theil-Sen (BootStrapped)	1.186915625
CGYP-3	Beryllium	15	0	15	0.0	Yes	6.00E-02	-4.161721958	No	Normal	22.51613344
CGYP-4	Beryllium	14	0	14	0.0	Yes	6.20E-03	-2.289198661	Yes	Theil-Sen (BootStrapped)	8.365906799
CGYP-5	Beryllium	8	0	8	0.0	Yes	1.08E-01	0.729903993	No	Normal	7.815184559
CGYP-6	Beryllium	15	4	11	26.7	Yes	1.08E-01	-6.395770324	No	Normal	8.527314846
CGYP-7#	Beryllium	9	0	9	0.0	Yes	5.81E-04	-3.098783477	Yes	Non-parametric	4.961311
CGYP-1	Cadmium	14	12	2	85.7	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-2	Cadmium	14	12	2	85.7	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-3	Cadmium	13	7	6	53.8	Yes	9.72E-02	-0.196412517	No	Gamma	0.5
CGYP-4	Cadmium	13	12	1	92.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Cadmium	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Cadmium	14	13	1	92.9	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Cadmium	9	6	3	66.7	Insufficient Data	NA	NA	NA	Central Tendency	0.943333333
CGYP-1	Chromium	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-2	Chromium	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-3	Chromium	14	4	10	28.6	Yes	7.80E-01	-0.054969914	No	Lognormal	5.240326323
CGYP-4	Chromium	14	14	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Chromium	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Chromium	15	14	1	93.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Chromium	9	9	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-1	Cobalt	15	0	15	0.0	Yes	4.78E-02	-3.346704903	Yes	Theil-Sen (BootStrapped)	24.04271337
CGYP-2#	Cobalt	15	0	15	0.0	Yes	1.75E-02	-1.787423542	Yes	Non-parametric	17.16141
CGYP-3#	Cobalt	15	0	15	0.0	Yes	2.94E-02	-14.40251868	Yes	Non-parametric	53.47605
CGYP-4#	Cobalt	14	0	14	0.0	Yes	6.88E-04	-6.501198125	Yes	Non-parametric	25.86831
CGYP-5	Cobalt	8	0	8	0.0	Yes	7.11E-01	-0.359418591	No	Non-parametric	42.89516129
CGYP-6	Cobalt	15	0	15	0.0	Yes	2.28E-02	-36.16887649	Yes	Theil-Sen (BootStrapped)	6.284448932
CGYP-7#	Cobalt	9	0	9	0.0	Yes	4.76E-02	-16.26082039	Yes	Non-parametric	41.40507
CGYP-1	Fluoride	15	0	15	0.0	Yes	1.00E+00	-6.55016E-09	No	Gamma	0.853979831
CGYP-2	Fluoride	15	1	14	6.7	Yes	5.53E-01	0.03067232	No	Normal	0.613153392
CGYP-3	Fluoride	15	0	15	0.0	Yes	3.46E-01	0.087517638	No	Lognormal	1.445050592
CGYP-4	Fluoride	14	0	14	0.0	Yes	6.27E-02	-0.250616204	No	Lognormal	1.279849693
CGYP-5	Fluoride	8	0	8	0.0	Yes	2.66E-01	1.60E-02	No	Normal	0.301270778
CGYP-6	Fluoride	15	0	15	0.0	Yes	7.53E-03	-0.177303223	Yes	Theil-Sen (BootStrapped)	0.1
CGYP-7	Fluoride	9	0	9	0.0	Yes	9.17E-01	0.028682186	No	Lognormal	0.935592675
CGYP-1	Lead	15	0	15	0.0	Yes	1.13E-01	-2.010593171	No	Gamma	8.087678422
CGYP-2	Lead	14	0	14	0.0	Yes	6.20E-03	-1.772175604	Yes	Theil-Sen (BootStrapped)	11.8293312
CGYP-3	Lead	15	0	15	0.0	Yes	6.00E-02	-3.337384238	No	Lognormal	21.30533292
CGYP-4	Lead	13	0	13	0.0	Yes	4.93E-03	-1.200779041	Yes	Theil-Sen (BootStrapped)	6.880540084
CGYP-5	Lead	8	0	8	0.0	Yes	2.58E-01	0.113534433	No	Lognormal	1.563977673
CGYP-6	Lead	14	4	10	28.6	Yes	7.47E-03	-3.79665441	Yes	Theil-Sen (BootStrapped)	1
CGYP-7#	Lead	9	0	9	0.0	Yes	2.86E-02	-9.202348633	Yes	Non-parametric	23.12918
CGYP-1	Lithium	12	0	12	0.0	Yes	1.93E-01	-1.638317199	No	Normal	12.82726413
CGYP-2	Lithium	13	1	12	7.7	Yes	1.00E+00	7.5137E-09	No	Non-parametric	10.86374101
CGYP-3	Lithium	15	0	15	0.0	Yes	6.68E-02	-10.28169023	No	Gamma	50.33841459
CGYP-4	Lithium	14	0	14	0.0	Yes	7.00E-01	-0.875221971	No	Normal	53.44103417
CGYP-5	Lithium	8	0	8	0.0	Yes	2.66E-01	0.990125868	No	Lognormal	59.66395234
CGYP-6	Lithium	15	0	15	0.0	Yes	8.29E-02	-28.67069481	No	Normal	80.34340161
CGYP-7	Lithium	8	0	8	0.0	Yes	2.66E-01	2.367744601	No	Normal	9.6028717
CGYP-1	Mercury	15	14	1	93.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-2	Mercury	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-3	Mercury	15	13	2	86.7	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-4	Mercury	13	13	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Mercury	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Mercury	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Mercury	9	9	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-1	Molybdenum	12	12	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-2	Molybdenum	14	14	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA

TABLE 1
LOWER CONFIDENCE LIMIT SUMMARY
STATISTICAL ANALYSIS - JUNE 2025
CLOSED GYPSUM POND
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

Well ID	Constituent	Number of Samples	Number of Non-Detects	Number of Detects	Percent Non-Detect	LCL Calculation	P-Value	Sen's Slope	Mann-Kendall Trend	LCL Method	LCL
CGYP-3	Molybdenum	13	13	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-4	Molybdenum	14	14	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Molybdenum	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Molybdenum	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Molybdenum	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-1	Total Radium	15	0	15	0.0	Yes	6.21E-01	0.11501392	No	Lognormal	3.784179314
CGYP-2	Total Radium	15	0	15	0.0	Yes	2.76E-01	0.141269159	No	Lognormal	2.346518019
CGYP-3	Total Radium	15	0	15	0.0	Yes	6.21E-01	-0.110460505	No	Gamma	4.658980621
CGYP-4	Total Radium	14	0	14	0.0	Yes	6.27E-02	-0.83645829	No	Gamma	3.241407788
CGYP-5	Total Radium	8	0	8	0.0	Yes	9.02E-01	0.110578053	No	Lognormal	1.783504709
CGYP-6	Total Radium	15	0	15	0.0	Yes	1.33E-02	-0.940093827	Yes	Theil-Sen (BootStrapped)	0.520102712
CGYP-7	Total Radium	9	0	9	0.0	Yes	6.02E-01	-0.306293979	No	Normal	4.833313855
CGYP-1	Selenium	14	10	4	71.4	Insufficient Data	NA	NA	NA	Central Tendency	10
CGYP-2	Selenium	14	11	3	78.6	Insufficient Data	NA	NA	NA	Central Tendency	10
CGYP-3	Selenium	14	12	2	85.7	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-4	Selenium	13	12	1	92.3	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Selenium	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Selenium	14	14	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Selenium	8	6	2	75.0	Insufficient Data	NA	NA	NA	Central Tendency	10
CGYP-1	Thallium	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-2	Thallium	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-3	Thallium	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-4	Thallium	14	14	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-5	Thallium	8	8	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-6	Thallium	15	15	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA
CGYP-7	Thallium	9	9	0	100.0	Insufficient Data	NA	NA	NA	Not Calculated	NA

Prepared by: TWL Checked by: CSB

Notes:

LCLs were calculated using data collected from May 2020 through June 2025.

LCLs presented are 95 percent LCLs unless the LCL method was central tendency.

A significance level, or alpha (α), of 0.05 was used for the two-sided Mann-Kendall (MK) test. If a calculated p-value is less than 0.05, then there is a statistically significant monotonic trend in the dataset and the Theil-Sen line was used for the LCL calculation.

If the calculated LCL was less than the most recent reporting limit for a constituent, the LCL was changed so that it is equivalent to the most recent reporting limit.

If two or more sampling events were within 30 days of one another, the more complete or first sampling event was kept and the other sampling events were not included in the analysis for autocorrelation purposes.

- LCL was calculated using a non-parametric data distribution even though the Well-Constituent pair exhibited a statistically significant trend because the Theil-Sen (BootStrapped) LCL was not representative of constituent concentrations.

LCL - lower confidence limit

NA - not applicable due to less than 4 detects or greater than 80 percent non-detects

total radium - radium-226 and radium-228 combined

Appendix B – Laboratory Analytical Results

santee cooper

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 # AG21205 **Location:** GW Well PM-1 **Date:** 01/14/2025 **Sample Collector:** MDG/DCA

Loc. Code PM-1 **Time:** 10:19

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Barium	84.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Calcium	16.4	mg/L	02/03/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Cobalt	1.6	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Iron	9560	ug/L	02/04/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Antimony	5.6	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Zinc	10.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Boron	12.5	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Lithium	5.05	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/04/2025	EUROFINS SAV	EPA 7470
Total Organic Carbon	6.14	mg/L	01/21/2025	GEL	SM 5310B
Fluoride	<0.1	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	11.7	mg/L	01/18/2025	GEL	EPA 300.0
Nitrate-Nitrite Cadmium Reduction	<0.07	mg/L	01/18/2025	GEL	EPA 353.2
Sulfate	21.4	mg/L	01/18/2025	GEL	EPA 300.0
Total Dissolved Solids	117.5	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	0.421	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
Radium 228	0.273	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.694	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
pH	5.20	SU	01/14/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21166 **Location:** GW Well CBW-1 **Date:** 01/14/2025 **Sample Collector:** MDG/DCA

Loc. Code CBW-1 **Time:** 11:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	38.3	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Iron	<50.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	2.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Cobalt	0.83	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	21.9	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Total Organic Carbon	1.98	mg/L	01/21/2025	GEL	SM 5310B
Chloride	3.46	mg/L	01/18/2025	GEL	EPA 300.0
Nitrate-Nitrite Cadmium Reduction	0.671	mg/L	01/20/2025	GEL	EPA 353.2
Sulfate	76.9	mg/L	01/18/2025	GEL	EPA 300.0
Total Dissolved Solids	115.0	mg/L	01/16/2025	SKJACOBS	SM 2540C
pH	4.68	SU	01/14/2025	MDG/DCA	

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 - Manager, Analytical Services

Final Validation Date: 4/10/25

santee cooper

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 # AG21182 **Location:** GW Well CCMGP-1 **Date:** 02/04/2025 **Sample Collector:** MDG/DCA

Loc. Code CCMGP-1 **Time:** 14:23

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	410	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	211	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Antimony	5.3	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Boron	1270	ug/L	02/14/2025	SKJACOBS	EPA 6010D
Lithium	38.6	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	02/11/2025	GEL	EPA 300.0
Chloride	171	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	80.7	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1045	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.13	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.912	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.04	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.72	SU	02/04/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21183 **Location:** GW Well CCMGP-2 **Date:** 02/06/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMGP-2 **Time:** 09:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	42.8	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	194	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	8.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	5.6	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	794	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	177	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	426	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1130	mg/L	02/07/2025	GJKOCENI	SM 2540C
Radium 226	0.489	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.86	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.35	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	5.70	SU	02/06/2025	ATH/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21184 **Location:** GW Well CCMGP-3 **Date:** 02/04/2025 **Sample Collector:** MDG/DCA

Loc. Code CCMGP-3 **Time:** 10:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	19.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	21.7	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	1.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	126	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	13.3	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Lead	22.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Boron	120	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	12.5	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	1.59	mg/L	02/11/2025	GEL	EPA 300.0
Chloride	61.1	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	681	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	925.0	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.00	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	2.55	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.55	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	4.11	SU	02/04/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21185 **Location:** GW Well CCMGP-4 **Date:** 02/04/2025 **Sample Collector:** MDG/DCA

Loc. Code CCMGP-4 **Time:** 09:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	506	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	195	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	5.3	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Antimony	5.7	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Boron	881	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	12.7	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	0.108	mg/L	02/11/2025	GEL	EPA 300.0
Chloride	182	mg/L	02/12/2025	GEL	EPA 300.0
Sulfate	20.0	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	947.5	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.19	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.64	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.83	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.35	SU	02/04/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21186 **Location:** GW Well CCMGP-5 **Date:** 02/03/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMGP-5 **Time:** 15:09

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	379	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	69.6	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	3.8	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	5.8	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	17.7	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	9.79	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	26.2	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	2.49	mg/L	02/10/2025	GEL	EPA 300.0
Total Dissolved Solids	312.5	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.751	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.507	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.26	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.57	SU	02/03/2025	ATH/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21190 **Location:** GW Well CGYP-1 **Date:** 02/05/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-1 **Time:** 14:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	10.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	53.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	5.3	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	193	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	35.8	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	8.3	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	5.8	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	8120	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	17.3	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	1.18	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	502	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	545	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1320	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.08	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	2.30	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.38	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	4.11	SU	02/05/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21191 **Location:** GW Well CGYP-2 **Date:** 02/04/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-2 **Time:** 13:08

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	10.1	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	17.6	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	1.8	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	149	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	16.7	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Lead	12.3	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Antimony	5.1	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Boron	880	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	15.1	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	0.979	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	52.5	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	817	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1128	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.43	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.56	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.99	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	3.94	SU	02/04/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21192 **Location:** GW Well CGYP-2 **Date:** 02/04/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-2 DUP **Time:** 13:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	9.9	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	17.7	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	1.8	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	150	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	16.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Lead	12.4	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Antimony	5.4	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Boron	885	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	15.3	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	0.983	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	51.8	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	831	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1115	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.658	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.81	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.47	pCi/L	03/10/2025	GEL	EPA 903.1 Mod

Comments:

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

Analysis Validated: _____ Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21193 **Location:** GW Well CGYP-3 **Date:** 02/05/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-3 **Time:** 13:28

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	69.9	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	8.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	494	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	46.3	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	6.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	12700	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	28.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	1.97	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	834	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	1070	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	2708	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.09	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	3.66	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.75	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	4.47	SU	02/05/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21194 **Location:** GW Well CGYP-4 **Date:** 02/05/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-4 **Time:** 12:33

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	24.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	9.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	200	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	26.4	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	7.3	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	5.7	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	4250	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	53.7	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	1.46	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	257	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	585	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1130	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.660	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	2.36	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.02	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	3.72	SU	02/05/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21195 **Location:** GW Well CGYP-5 **Date:** 02/05/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-5 **Time:** 11:32

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	26.2	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	10.3	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	169	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	46.6	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	1.9	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	5.2	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	1560	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	66.4	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	0.415	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	117	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	427	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	855.0	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.734	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.746	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.48	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	4.00	SU	02/05/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21196 **Location:** GW Well CGYP-6 **Date:** 02/05/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-6 **Time:** 10:36

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	85.9	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	343	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	6.6	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Boron	843	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	15.6	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	0.128	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	136	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	533	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1448	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.835	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.994	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.83	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.53	SU	02/05/2025	MDG/DCA	

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG21197 **Location:** GW Well CGYP-7 **Date:** 02/04/2025 **Sample Collector:** MDG/DCA

Loc. Code CGYP-7 **Time:** 11:57

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	15.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	24.1	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	4.7	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	295	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	44.9	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Lead	23.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Antimony	5.6	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Boron	8350	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	16.6	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	1.29	mg/L	02/11/2025	GEL	EPA 300.0
Chloride	546	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	888	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	1902	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	1.03	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	4.19	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.22	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	4.03	SU	02/04/2025	MDG/DCA	

Comments:

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

Analysis Validated: Validation date: 4/11/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG33005 **Location:** GW Well CGYP-5 **Date:** 05/13/2025 **Sample Collector:** ATH/AGP

Loc. Code CGYP-5 **Time:** 10:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Barium	23.6	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Beryllium	10.2	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Calcium	178	mg/L	05/19/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Cobalt	44.6	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Lead	1.9	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Boron	1450	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Lithium	59.4	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	05/29/2025	EUROFINS	EPA 7470
Fluoride	0.42	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Chloride	118	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Sulfate	385	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	822.5	mg/L	05/19/2025	GJKOCENI	SM 2540C
Radium 226	1.80	pCi/L	06/09/2025	GEL	EPA 903.1 Mod
Radium 228	2.25	pCi/L	06/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.05	pCi/L	06/23/2025	SJLEVY	EPA 903.1 Mod
pH	4.20	SU	05/13/2025	ATH/AGP	

Comments:

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

Analysis Validated: _____ Validation date: 7/22/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG33006 **Location:** GW Well CGYP-6 **Date:** 05/13/2025 **Sample Collector:** ATH/AGP

Loc. Code CGYP-6 **Time:** 11:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Barium	80.7	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Calcium	347	mg/L	05/19/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Cobalt	5.5	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Boron	787	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Lithium	14.0	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	05/29/2025	EUROFINS	EPA 7470
Fluoride	0.13	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Chloride	152	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Sulfate	584	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	1392	mg/L	05/19/2025	GJKOCENI	SM 2540C
Radium 226	0.713	pCi/L	06/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.728	pCi/L	06/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.44	pCi/L	06/23/2025	SJLEVY	EPA 903.1 Mod
pH	6.62	SU	05/13/2025	ATH/AGP	

Comments:

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

Analysis Validated: Validation date: 7/22/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG33007 **Location:** GW Well CGYP-6 **Date:** 05/13/2025 **Sample Collector:** ATH/AGP

Loc. Code CGYP-6 DUP **Time:** 11:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Barium	81.7	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Calcium	342	mg/L	05/19/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Cobalt	5.3	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	05/19/2025	SKJACOBS	EPA 6020B
Boron	784	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Lithium	12.9	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	05/15/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	05/29/2025	EUROFINS	EPA 7470
Fluoride	0.13	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Chloride	152	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Sulfate	537	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	1440	mg/L	05/19/2025	GJKOCENI	SM 2540C
Radium 226	0.839	pCi/L	06/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.620	pCi/L	06/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.46	pCi/L	06/23/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated: Linda Williams - Manager Analytical Services Validation date: 7/22/25

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34934 **Location:** GW Well PM-1 **Date:** 06/02/2025 **Sample Collector:** AGP/EA

Loc. Code PM-1 **Time:** 10:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Barium	86.9	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Calcium	20.3	mg/L	06/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cobalt	1.7	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Iron	11100	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Antimony	5.7	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Boron	13.4	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Total Organic Carbon	5.36	mg/L	06/13/2025	GEL	SM 5310B
Fluoride	<0.10	mg/L	06/04/2025	AMSTOCKH	EPA 300.0
Chloride	11.2	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Nitrate-Nitrite Cadmium Reduction	<0.07	mg/L	06/18/2025	GEL	EPA 353.2
Sulfate	16.8	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	175.0	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	0.481	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	0.735	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.22	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.21	SU	06/02/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 8/1/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34895 **Location:** GW Well CBW-1 **Date:** 06/03/2025 **Sample Collector:** AGP/EA

Loc. Code CBW-1 **Time:** 10:21

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Barium	37.9	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cobalt	1.1	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Iron	166	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Lead	2.4	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Zinc	13.7	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Boron	21.2	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Total Organic Carbon	1.23	mg/L	06/13/2025	GEL	SM 5310B
Chloride	3.65	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Nitrate-Nitrite Cadmium Reduction	1.76	mg/L	06/18/2025	GEL	EPA 353.2
Sulfate	83.9	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	167.5	mg/L	06/06/2025	GJKOCENI	SM 2540C
pH	4.69	SU	06/03/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 8/1/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34911 **Location:** GW Well CCMGP-1 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CCMGP-1 **Time:** 12:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	336	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Calcium	173	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	5.4	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	745	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	33.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	143	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	45.2	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	960.0	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	1.60	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	0.427	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.03	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.85	SU	06/05/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34912 **Location:** GW Well CCMGP-2 **Date:** 06/10/2025 **Sample Collector:** AGP/EA

Loc. Code CCMGP-2 **Time:** 16:02

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.2	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Barium	38.3	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Calcium	161	mg/L	06/17/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Cobalt	24.7	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/17/2025	SKJACOBS	EPA 6020B
Boron	682	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/30/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	210	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	413	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	965.0	mg/L	06/11/2025	JRLOTITO	SM 2540C
Radium 226	2.48	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.349	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.83	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.29	SU	06/10/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34913 **Location:** GW Well CCMGP-3 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CCMGP-3 **Time:** 09:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	12.3	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	17.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	1.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	93.4	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	17.2	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Lead	16.1	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Boron	123	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	8.07	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/30/2025	EUROFINS ATL	EPA 7470
Fluoride	0.85	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	45.4	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	412	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	680.0	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	2.00	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	1.70	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.70	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	3.98	SU	06/11/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34914 **Location:** GW Well CCMGP-4 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CCMGP-4 **Time:** 10:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	498	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	203	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	4.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Boron	920	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	13.3	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/30/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	211	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	24.8	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	967.5	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	2.09	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	1.25	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.34	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.24	SU	06/11/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34915 **Location:** GW Well CCMGP-5 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CCMGP-5 **Time:** 14:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	360	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	68.5	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	4.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Boron	16.4	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	10.7	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/30/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	28.0	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	2.20	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	275.0	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	0.575	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.882	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.46	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.39	SU	06/11/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34926 **Location:** GW Well CGYP-1 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-1 **Time:** 15:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	9.3	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	51.4	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	3.7	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Calcium	171	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	31.3	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	15.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	7230	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	12.8	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	0.90	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	596	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	376	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1410	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	1.22	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	3.40	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.62	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	4.33	SU	06/05/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34927 **Location:** GW Well CGYP-2 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-2 **Time:** 13:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	10.9	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	16.6	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	1.9	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Calcium	170	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	16.2	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	13.4	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	873	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	15.6	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	0.68	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	48.2	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	675	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1098	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	0.871	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	2.13	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.00	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	1.01	SU	06/05/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34928 **Location:** GW Well CGYP-2 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-2 DUP **Time:** 13:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	10.7	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	16.6	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	2.0	ug/L	06/16/2025	SKJACOBS	EPA 6020B
Calcium	170	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	16.3	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	13.4	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	870	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	15.1	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	0.67	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	50.5	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	675	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1090	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	1.00	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	2.09	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.09	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34929 **Location:** GW Well CGYP-3 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-3 **Time:** 11:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	8.3	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	63.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	12.7	ug/L	06/16/2025	SKJACOBS	EPA 6020B
Calcium	488	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	54.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	5.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	12.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	5.1	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	14400	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	35.6	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	1.39	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	934	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	801	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	3012	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	2.41	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	3.28	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.69	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	4.38	SU	06/05/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34930 **Location:** GW Well CGYP-4 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-4 **Time:** 10:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	23.7	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	8.8	ug/L	06/16/2025	SKJACOBS	EPA 6020B
Calcium	189	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	25.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	7.7	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	4060	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	50.9	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	1.07	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	257	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	468	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1062	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	8.19	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	3.46	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	11.7	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	3.82	SU	06/05/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34931 **Location:** GW Well CGYP-5 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-5 **Time:** 13:06

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	23.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	9.4	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	169	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	41.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Lead	1.9	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Boron	1420	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	60.8	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/30/2025	EUROFINS ATL	EPA 7470
Fluoride	0.38	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	120	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	372	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	822.5	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	0.506	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	1.73	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.24	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	4.23	SU	06/11/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34932 **Location:** GW Well CGYP-6 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-6 **Time:** 12:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	78.3	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	333	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Boron	839	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	13.9	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/30/2025	EUROFINS ATL	EPA 7470
Fluoride	0.13	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	140	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	532	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1382	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	0.829	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	1.20	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.03	pCi/L	07/14/2025	GEL	EPA 903.1 Mod
pH	6.64	SU	06/11/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG34933 **Location:** GW Well CGYP-7 **Date:** 06/05/2025 **Sample Collector:** AGP/EA

Loc. Code CGYP-7 **Time:** 14:50

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	17.4	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Barium	23.9	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Beryllium	5.0	ug/L	06/16/2025	SKJACOBS	EPA 6020B
Calcium	309	mg/L	06/13/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Cobalt	45.9	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Lead	21.3	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Antimony	5.1	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/13/2025	SKJACOBS	EPA 6020B
Boron	7800	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	14.1	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	06/12/2025	EUROFINS ATL	EPA 7470
Fluoride	0.77	mg/L	06/19/2025	RWMIMS	EPA 300.0
Chloride	27.0	mg/L	06/19/2025	RWMIMS	EPA 300.0
Sulfate	698	mg/L	06/19/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1712	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	1.82	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	4.44	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	6.26	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	4.08	SU	06/05/2025	AGP/EA	

Comments:

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

Analysis Validated: Validation date: 7/30/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG50785 **Location:** GW Well CGYP-5 **Date:** 11/05/2025 **Sample Collector:** CG/JR

Loc. Code CGYP-5 **Time:** 12:23

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Barium	27.7	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Beryllium	11.5	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Calcium	169	mg/L	11/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Cobalt	44.5	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Lead	3.3	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Boron	1420	ug/L	11/11/2025	SKJACOBS	EPA 6010D
Lithium	67.9	ug/L	11/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	12/02/2025	EUROFINS	EPA 7470
Fluoride	0.38	mg/L	11/13/2025	RWMIMS	EPA 300.0
Chloride	118	mg/L	11/13/2025	RWMIMS	EPA 300.0
Sulfate	360	mg/L	11/13/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	762.5	mg/L	11/12/2025	DCCOLLIN	SM 2540C
Radium 226	0.832	pCi/L	11/26/2025	GEL	EPA 903.1 Mod
Radium 228	2.95	pCi/L	12/02/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.78	pCi/L	12/04/2025	SJLEVY	EPA 903.1 Mod
pH	3.87	SU	11/05/2025	CG/JR	

Comments:

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

Analysis Validated: Validation date: 12/15/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG50786 **Location:** GW Well CGYP-6 **Date:** 11/05/2025 **Sample Collector:** CG/JR

Loc. Code CGYP-6 **Time:** 10:15

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	6.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Barium	85.4	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Beryllium	0.54	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Calcium	342	mg/L	11/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Cobalt	5.1	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Boron	1230	ug/L	12/03/2025	SKJACOBS	EPA 6010D
Lithium	17.8	ug/L	12/03/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	12/03/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	12/02/2025	EUROFINS ATL	EPA 7470
Fluoride	0.13	mg/L	11/13/2025	RWMIMS	EPA 300.0
Chloride	168	mg/L	11/13/2025	RWMIMS	EPA 300.0
Sulfate	492	mg/L	11/13/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1362	mg/L	11/12/2025	DCCOLLIN	SM 2540C
Radium 226	0.889	pCi/L	11/26/2025	GEL	EPA 903.1 Mod
Radium 228	0.666	pCi/L	12/02/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.56	pCi/L	12/04/2025	SJLEVY	EPA 903.1 Mod
pH	6.46	SU	11/05/2025	CG/JR	

Comments:

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

Analysis Validated: Validation date: 12/15/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

santee cooper

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 # AG50787 **Location:** GW Well CGYP-6 **Date:** 11/05/2025 **Sample Collector:** CG/JR

Loc. Code CGYP-6 DUP **Time:** 10:20

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Barium	84.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Calcium	340	mg/L	11/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Cobalt	4.9	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	11/11/2025	SKJACOBS	EPA 6020B
Boron	1180	ug/L	11/11/2025	SKJACOBS	EPA 6010D
Lithium	16.9	ug/L	11/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	11/11/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	12/02/2025	EUROFINS ATL	EPA 7470
Fluoride	0.13	mg/L	11/13/2025	RWMIMS	EPA 300.0
Chloride	163	mg/L	11/13/2025	RWMIMS	EPA 300.0
Sulfate	492	mg/L	11/13/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1398	mg/L	11/13/2025	DCCOLLIN	SM 2540C
Radium 226	1.30	pCi/L	11/26/2025	GEL	EPA 903.1 Mod
Radium 228	0.781	pCi/L	12/02/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.08	pCi/L	12/04/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated: _____ Validation date: 12/15/25

Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed

Chain of Custody

Cross
Background
NPDES/CCR/LF

(Background wells
CBW-1 and PM-1)

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # ~~121567~~ JM02.09.G01 / 36500

Contract Lab Due Date (Lab Only) :

TAG21205

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Grab/Comp	Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Fe, Sb, Se, Tl, Zn**	B, Li, Mo, Hg	TOC	F, Cl, NO3, SO4 TDS	Ra 226, Ra 228
Preservative								1	1	1/3	1	1/2
Bottle Type (Glass/Plastic)								P	P	G	P	P
~~AG21071~~ MDG	PM-1	1/14/25	1019	MDG/DLA	G	GW	9	2	1	1	3	2
~~AG21072~~ MDG	CBW-1	↓	1154	↓	G	GW	9	2	1	1	3	2
AG21166												

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.5	TH

Comments

Lot # GFS 24004929
Batch # 052024-1 (TH)
1:1 Sulfuric Acid (H2SO4)
santee cooper 1/15/25@0800

Lot # 1123070
Batch # 20240220-01 (TH)
1:1 Nitric Acid (HNO3)
santee cooper 1/15/25@0802

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816/1107801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Melanie Goings	32927	1/15/25	0749	[signature]	36851	1/15/25	0749
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity
Dielectric Strength, Interfacial Tension
Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

TOC APC1449 221124000/4GF1097 GEL 1/10/25

Cross
CCR/Closed Gypsum Pond

(CGYP-1, CGYP-2, CGYP-3 , CGYP-4, CGYP-5, CGYP-6 , CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Sample Type Grab/Comp	Sample Type Matrix	Number of Containers	Preservative	Bottle Type (Glass/Plastic)	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
								1	1	1	1	1,2		
								P	P	P	P	P		
								Fill in the Number of Containers for each Test						
AG21191	CGYP-2	2/4/25	1308	MDG/DCA	G	GW	7	2	1	1	1	2		
AG21192	CGYP-2Dup		1313		G	GW	7	2	1	1	1	2		
AG21197	CGYP-7		1157		G	GW	7	2	1	1	1	2		
AG21182	CCMGP-1		1423		G	GW	7	2	1	1	1	2		
AG21184	CCMGP-3		1043		G	GW	7	2	1	1	1	2		
AG21185	CCMGP-4		0944		G	GW	7	2	1	1	1	2		

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
2.1	SJL

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
2/5/25 e1001 SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify) Bottle Type: (G) Glass (P) Plastic Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816/0117801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Melanie Goings	32927	2/5/25	0740	S Levy	35594	2/5/25	0740
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Cross
CCR/Closed Gypsum Pond
(CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, CGYP-6, CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) : ____

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Grab/Comp	Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	Comments
Preservative								1	1	1	1	1, 2	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
AG21190	CGYP-1	2/5/25	1444	MDG/DCA	G	GW	7	2	1	1	1	2	
AG21193	CGYP-3		1328				7	2	1	1	1	2	
AG21194	CGYP-4		1233				7	2	1	1	1	2	
AG21195	CGYP-5		1132				7	2	1	1	1	2	
AG21196	CGYP-6		1036				7	2	1	1	1	2	

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.4	SJL

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
2/6/25 @ 1049 SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record Correct pH: ~~N/A~~ (Yes) No — If preserved, Lot# 235816/0113801J — Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	36887	2/6/25	0720	S Levy	35594	2/6/25	0730
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:
TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Cross
CCR/Closed Gypsum Pond
(CGYP-1, CGYP-2, CGYP-3, CGYP-4, CGYP-5, CGYP-6, CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) : _____

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.9	TH

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Grab/Comp	Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	Comments
Preservative								1	1	1	1	1,2	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
AG21183	CCMGP-2	2/6/25	913	ATH/DCA	G	GW	7	2	1	1	1	2	

Fill in the Number of Containers for each Test

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
santee cooper 2/6/25@1456 TH

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Sampler:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816/0117801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	36887	2/6/25	1452		36851	2/6/25	1452
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:
TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Cross
CCR/Closed Gypsum Pond
(CGYP-1, CGYP-2, CGYP-3 , CGYP-4, CGYP-5, CGYP-6 , CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) : _____

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	
Preservative								1	1	1	1	1,2	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
Fill in the Number of Containers for each Test													
AG21186	CCMGP-5	2/3/25	1509	ATH/DCA	G	GW	7	2	1	1	1	2	

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.7	SJL

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
2/4/25 e 0830 SJL

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-**Other** (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record Correct pH: RAD (Yes) No If preserved, Lot# 235816/0U7801J Date/Time/Int GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Melanie D Goings	32927	2/4/25	0730	S. Levy	35594	2/4/25	0750
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

CROSS/ CCR Baseline Sampling

(CGYP-5 and CGYP-6 (with Duplicate)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36110

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
	Preservative							1	1	1	1	1,2
	Bottle Type (Glass/Plastic)							P	P	P	P	P
	Fill in the Number of Containers for each Test											
AG33005	CGYP-5	5/13/25	1039	ATH AGP	G	GW	7	2	1	1	1	2
AG33006	CGYP-6	5/13/25	1143	ATH AGP	G	GW	7	2	1	1	1	2
AG33007	CGYP-6 DUP	5/13/25	1148	ATH AGP	G	GW	7	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.8	SJL

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
5/13/25 @ 1525 SJL

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH:	If preserved, Lot#	Date/Time/Int
	Yes / No	235816/0117801J	GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Peyton Reid	38361	5/13	1317	S.Revy	35594	5/13/25	1317
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan
Hardgrove Grindability Index
Sieve Analysis
Pulverizer Fineness
Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Cross
CCR/Closed Gypsum Pond

(CGYP-1, CGYP-2, CGYP-3 , CGYP-4, CGYP-5, CGYP-6 , CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 /~~36500~~ 36110

Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Grab/Comp	Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
	Preservative							1	1	1	1	1/2
	Bottle Type (Glass/Plastic)							P	P	P	P	P
					Sample Type			**Sample Analysis Requested (Method)**				
AG34931	LGYP-5	6/11/25	1306	AGP/EA	G	GW	7	2	1	1	1	2
AG34932	LGYP-6	6/11/25	1200	AGP/EA	G	GW	7	2	1	1	1	2
AG34913	CCMGP-3	6/11/25	945	AGP/EA	G	GW	7	2	1	1	1	2
AG34914	CCMGP-4	6/11/25	1048	AGP/EA	G	GW	7	2	1	1	1	2
AG34915	CCMGP-5	6/11/25	1400	AGP/EA	G	GW	7	2	1	1	1	2

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.6	SJL

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 6/12/25 e c849 SJL

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH: (Yes) No	If preserved, Lot# 243272/0117801J	Date/Time/Int 5/28/25 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38361	6/12/25	753	[signature]	35594	6/12/25	0753
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**
Relinquished by: (To Person / Lockbox)	**Employee #**	**Date**	**Time**	**Received by: (From Person / Lockbox)**	**Employee #**	**Date**	**Time**

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

Cross
CCR/Closed Gypsum Pond

(CGYP-1, CGYP-2, CGYP-3 , CGYP-4, CGYP-5, CGYP-6 , CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36500

Contract Lab Due Date (Lab Only) :

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.1	SJL

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	Comments
Preservative								1	1	1	1	1/2	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
AG34917	CCMGP-2	6/10/25	1603	ACP/FA	G	GW	7	2	1	1	1	2	

Lot # Thermo Sci U23K034
Batch # 20250213-1
1:1 Sulfuric Acid (H2SO4)
6/11/25 1004 SJL

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/11/25 1109 RL

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH: (Yes) No	If preserved, Lot# 243272 / 01-17801J	Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
[signature]	38361	6/11/25	750	[signature]	35594	6/11/25	0750
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Cross
CCR/Closed Gypsum Pond
(CGYP-1, CGYP-2, CGYP-3 , CGYP-4, CGYP-5, CGYP-6 , CGYP-7, CCMGP-1, CCMGP-2, CCMGP-3, CCMGP-4, CCMGP-5 with Duplicate CGYP-2)

Customer/Send Report To: Melanie Goings/A203
Need Results By (Date Needed): 3 Weeks
Project/Task/Unit # 125915 JM02.09.G01.1 / 36500
Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	By	Grab/Comp	Matrix	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228
	Preservative							1	1	1	1	1/2
	Bottle Type (Glass/Plastic)							P	P	P	P	P
	Sample Type							Fill in the Number of Containers for each Test				
AG34930	CGYP-4	6/5/25	1047	AGP/EA	G	GW	7	2	1	1	1	2
AG34929	CGYP-3	6/5/25	1145	AGP/EA	G	GW	7	2	1	1	1	2
AG34911	CCMGP-1	6/5/25	1244	AGP/EA	G	GW	7	2	1	1	1	2
AG34927	CGYP-2	6/5/25	1339	AGP/EA	G	GW	7	2	1	1	1	2
AG34928	CGYP-2 Dup	6/5/25	1344	AGP/EA	G	GW	7	2	1	1	1	2
AG34933	CGYP-7	6/5/25	1450	AGP/EA	G	GW	7	2	1	1	1	2
AG34916	CGYP-1	6/5/25	1548	AGP/EA	G	GW	7	2	1	1	1	2
92												

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.6	TH

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/6/25 0830

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)
Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)
Bottle Type: (G) Glass (P) Plastic
Sample Type: (G) Grab, (C) Composite

Composite Samples:
Start Date/Time:
End Date/Time:

Preservative Record Correct pH: (Yes) No If preserved, Lot# 243272/0117801J Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	38361	6/6/25	815		36851	6/6/25	0815
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

santee cooper

Chain of Custody

Cross
Background
NPDES/CCR/LF

(Background wells
CBW-1 and PM-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # ~~121567~~ JM02.09.G01 / 36500
125915

Contract Lab Due Date (Lab Only) : _____

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type Grab/Comp	Sample Type Matrix	Number of Containers	Sample Analysis Requested (Method)					
								1	1	1/3	1	1/2	
Preservative													
Bottle Type (Glass/Plastic)								P	P	G	P	P	
								As, Ba, Be, Ca, Cd, Co, Cr, Pb, Fe, Sb, Se, Tl, Zn**	B, Li, Mo, Hg	TOC	F, Cl, NO3, SO4 TDS	Ra 226, Ra 228	
								Fill in the Number of Containers for each Test					
AG34895	CBW-1	6/3/25	1021	AGP/EA	G	GW	ACD 89	2	1	1	3	2	
	~~EA~~ EA												

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.6	TH

Comments

→ TOGEL
Lot # Thermo Sci U23K034
Batch # 20250213-1
1:1 Sulfuric Acid (H2SO4)
NO3/NO2
santee cooper TH 6/4/25 0754

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper JMG 6/4/25 0757

Matrix Code: **GW**-Groundwater, **DW**-Drinking Water, **SW**-Surface Water, **WW**-Wastewater, **BW**-Boiler Water, **L**-Limestone, **O**-Oil, **S**-Soil, **SL**-Solid, **C**-Coal, **G**-Gypsum, **FA**-Fly Ash, **BA**-Bottom Ash, **M**-Misc (Describe in Comments)

Preservation used: **1**-<4°C, **2**-HNO_3, **3**-H_2SO_4, **4**-HCl, **5**-$Na_2S_2O_3$, **6**-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (**G**) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record Correct pH: (Yes) No

If preserved, Lot# 243272/0117801J Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Caitlin Price	38361	6/4/25	743		36851	6/4/25	0742
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

TOC 220325000/4G18944 GEL 5/28/25
RAD 243272/0117801J GEL 5/28/25

santee cooper

Chain of Custody

Cross
Background
NPDES/CCR/LF

(Background wells
CBW-1 and PM-1)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # ~~121567~~ JM02.09.G01 / 36500
125915

Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Fe, Sb, Se, Tl, Zn** (Preservative: 1, Bottle Type: P)	B, Li, Mo, Hg (1, P)	TOC (1/3, G)	F, Cl, NO3, SO4 TDS (1, P)	Ra 226, Ra 228 (1/2, P)	Comments
								Fill in the Number of Containers for each Test					
AG34934	PM-1	6/2/25	1034	AGP/EA	G	GW	8	2	1	1	3	2	

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.3	SJL

→ TO GEL

NO3/NO2
Lot # Thermo Sci U23K034
Batch # 20250213-1
1:1 Sulfuric Acid (H2SO4)
6/3/25 @ 0901 SJL

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/3/24 @ 0900 SJL

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH: ~~TOC~~ (Yes) No	If preserved, Lot# 220325000/4G18944	Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Ashley Pick	38361	6/3/25	741	Sherry	35594	6/3/25	0741
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

RAD 243272/011780IJ GEL 5/28/25

santee cooper

Chain of Custody

CROSS/ CCR Baseline Sampling

(CGYP-5 and CGYP-6 (with Duplicate)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.09.G01.1 / 36110

Contract Lab Due Date (Lab Only) :

Labworks ID Number	Sample Location / Description	Collection Date	Collection Time	Collection By	Sample Type: Grab/Comp	Sample Type: Matrix	Number of Containers	Sample Analysis Requested (Method): As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Tl	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	
Preservative								1	1	1	1	1&2	
Bottle Type (Glass/Plastic)								P	P	P	P	P	
AG50705	CGYP-5	11/5/25	1223	CG/TR	G	GW	7	2	1	1	1	2	
AG50706	CGYP-4	11/5/25	1015	CG/TR	G	GW	7	2	1	1	1	2	
AG50707	CGYP-6 DUP	11/5/25	1020	CG/TR	G	GW	7	2	1	1	1	2	

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.4	SJL

Comments

Spectrum Lot # 1125040
Batch # 20250730-01
1:1 Nitric Acid (HNO3)
santee cooper 11/5/25 @ 1405 DCC

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)

Preservation used: 1-<4°C, 2-HNO_3, 3-H_2SO_4, 4-HCl, 5-$Na_2S_2O_3$, 6-Other (Specify)

Bottle Type: (G) Glass (P) Plastic

Sample Type: (G) Grab, (C) Composite

Composite Samples:

Start Date/Time:

End Date/Time:

Preservative Record	Correct pH: (Yes) No	If preserved, Lot# 0105701K/243272	Date/Time/Int 6/20/25 GEL

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Chris	30548	11/5/25	1345	S. Levy	35594	11/5/25	1345
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time

Available Analyses:

TOC / DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Napthalene, MTBE, VOC
Rad 226, Rad 228
Oil & Grease
E.coli, Total Coliform

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb Se, Sn, Tl, V, Zn, P, S, SiO2, Sr, Ti, CrVI

Dissolved Metals: As, Fe

pH

Wallboard Gyp: AIM, TOC, Total and Soluble Metals, Purity, % Moisture, Sulfites, pH, Chloride, Particle Size
Daily Gyp: Free Moisture, Purity (CaSO4)
Limestone Analysis: Acid Insoluble Matter, Total Metals, LOI, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOI, % Carbon, Free CaO, Mineral Analysis

Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs , Volatile Matter, CHN
XRF Scan Hardgrove Grindability Index
Sieve Analysis Pulverizer Fineness Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity Dielectric Strength, Interfacial Tension Density
Togas: Dissolved Gases in Oil
Metals (Oil): As, Cd, Cr, Ni, Pb, Hg
Flash point, Total Halogens, PCB
Gofer Oil:#GOFER **Used Oil:**#USED OIL

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/19/2025 8:47:59 AM

JOB DESCRIPTION

125915/JM02.09-G01.1/36500

JOB NUMBER

680-261808-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

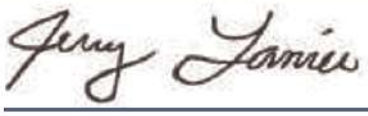
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
2/19/2025 8:47:59 AM

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

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Sample Summary 5
Method Summary 6
Definitions 7
Detection Summary 8
Client Sample Results 10
QC Sample Results 36
QC Association 37
Chronicle 39
Chain of Custody 44
Receipt Checklists 47
Certification Summary 48

Job ID: 680-261808-1 — Eurofins Savannah

Job Narrative
680-261808-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/12/2025 10:15 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 14.8°C.

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

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261808-1	AG21180	GW	02/03/25 09:30	02/12/25 10:15
680-261808-2	AG21179	GW	02/03/25 10:33	02/12/25 10:15
680-261808-3	AG21170	GW	02/03/25 11:54	02/12/25 10:15
680-261808-4	AG21171	GW	02/03/25 11:59	02/12/25 10:15
680-261808-5	AG21172	GW	02/03/25 13:51	02/12/25 10:15
680-261808-6	AG21190	GW	02/05/25 14:44	02/12/25 10:15
680-261808-7	AG21193	GW	02/05/25 13:28	02/12/25 10:15
680-261808-8	AG21194	GW	02/05/25 12:33	02/12/25 10:15
680-261808-9	AG21195	GW	02/05/25 11:32	02/12/25 10:15
680-261808-10	AG21196	GW	02/05/25 10:36	02/12/25 10:15
680-261808-11	AG21188	GW	01/29/25 11:39	02/12/25 10:15
680-261808-12	AG21187	GW	01/29/25 12:39	02/12/25 10:15
680-261808-13	AG21189	GW	01/29/25 13:43	02/12/25 10:15
680-261808-14	AG21176	GW	01/29/25 14:47	02/12/25 10:15
680-261808-15	AG21173	GW	01/29/25 15:29	02/12/25 10:15
680-261808-16	AG21177	GW	01/30/25 09:20	02/12/25 10:15
680-261808-17	AG21175	GW	01/30/25 10:11	02/12/25 10:15
680-261808-18	AG21178	GW	01/30/25 11:16	02/12/25 10:15
680-261808-19	AG21167	GW	01/30/25 12:40	02/12/25 10:15
680-261808-20	AG21168	GW	01/30/25 13:47	02/12/25 10:15
680-261808-21	AG21191	GW	02/04/25 13:08	02/12/25 10:15
680-261808-22	AG21192	GW	02/04/25 13:13	02/12/25 10:15
680-261808-23	AG21197	GW	02/04/25 11:57	02/12/25 10:15
680-261808-24	AG21182	GW	02/04/25 14:23	02/12/25 10:15
680-261808-25	AG21184	GW	02/04/25 10:43	02/12/25 10:15
680-261808-26	AG21185	GW	02/04/25 09:44	02/12/25 10:15

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

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/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21180 — **Lab Sample ID: 680-261808-1**

No Detections.

Client Sample ID: AG21179 — **Lab Sample ID: 680-261808-2**

No Detections.

Client Sample ID: AG21170 — **Lab Sample ID: 680-261808-3**

No Detections.

Client Sample ID: AG21171 — **Lab Sample ID: 680-261808-4**

No Detections.

Client Sample ID: AG21172 — **Lab Sample ID: 680-261808-5**

No Detections.

Client Sample ID: AG21190 — **Lab Sample ID: 680-261808-6**

No Detections.

Client Sample ID: AG21193 — **Lab Sample ID: 680-261808-7**

No Detections.

Client Sample ID: AG21194 — **Lab Sample ID: 680-261808-8**

No Detections.

Client Sample ID: AG21195 — **Lab Sample ID: 680-261808-9**

No Detections.

Client Sample ID: AG21196 — **Lab Sample ID: 680-261808-10**

No Detections.

Client Sample ID: AG21188 — **Lab Sample ID: 680-261808-11**

No Detections.

Client Sample ID: AG21187 — **Lab Sample ID: 680-261808-12**

No Detections.

Client Sample ID: AG21189 — **Lab Sample ID: 680-261808-13**

No Detections.

Client Sample ID: AG21176 — **Lab Sample ID: 680-261808-14**

No Detections.

Client Sample ID: AG21173 — **Lab Sample ID: 680-261808-15**

No Detections.

Client Sample ID: AG21177 — **Lab Sample ID: 680-261808-16**

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21175 **Lab Sample ID: 680-261808-17**

No Detections.

Client Sample ID: AG21178 **Lab Sample ID: 680-261808-18**

No Detections.

Client Sample ID: AG21167 **Lab Sample ID: 680-261808-19**

No Detections.

Client Sample ID: AG21168 **Lab Sample ID: 680-261808-20**

No Detections.

Client Sample ID: AG21191 **Lab Sample ID: 680-261808-21**

No Detections.

Client Sample ID: AG21192 **Lab Sample ID: 680-261808-22**

No Detections.

Client Sample ID: AG21197 **Lab Sample ID: 680-261808-23**

No Detections.

Client Sample ID: AG21182 **Lab Sample ID: 680-261808-24**

No Detections.

Client Sample ID: AG21184 **Lab Sample ID: 680-261808-25**

No Detections.

Client Sample ID: AG21185 **Lab Sample ID: 680-261808-26**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21180
Date Collected: 02/03/25 09:30
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-1
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:25	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21179
Date Collected: 02/03/25 10:33
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-2
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:46	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21170
Date Collected: 02/03/25 11:54
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-3
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:13	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21171
Date Collected: 02/03/25 11:59
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-4
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:04	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21172
Date Collected: 02/03/25 13:51
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-5
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 18:59	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21190
Date Collected: 02/05/25 14:44
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-6
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 18:55	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21193
Date Collected: 02/05/25 13:28
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-7
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:20	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21194
Date Collected: 02/05/25 12:33
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-8
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:22	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21195
Date Collected: 02/05/25 11:32
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-9
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:37	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21196
Date Collected: 02/05/25 10:36
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-10
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:30	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21188
Date Collected: 01/29/25 11:39
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-11
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:27	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21187
Date Collected: 01/29/25 12:39
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-12
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:25	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21189
Date Collected: 01/29/25 13:43
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-13
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 18:57	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21176
Date Collected: 01/29/25 14:47
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-14
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:14	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21173
Date Collected: 01/29/25 15:29
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-15
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:44	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21177
Date Collected: 01/30/25 09:20
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-16
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:28	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21175
Date Collected: 01/30/25 10:11
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-17
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:06	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21178
Date Collected: 01/30/25 11:16
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-18
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:41	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21167
Date Collected: 01/30/25 12:40
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-19
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:23	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21168
Date Collected: 01/30/25 13:47
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-20
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 17:09	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21191
Date Collected: 02/04/25 13:08
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-21
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:09	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21192
Date Collected: 02/04/25 13:13
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-22
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:16	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21197
Date Collected: 02/04/25 11:57
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-23
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:48	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21182
Date Collected: 02/04/25 14:23
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-24
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 18:48	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21184
Date Collected: 02/04/25 10:43
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-25
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:02	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21185
Date Collected: 02/04/25 09:44
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261808-26
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 19:11	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-876179/1-A
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 876179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:08	1

Lab Sample ID: LCS 680-876179/2-A
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 876179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.731		ug/L		109	80 - 120

Lab Sample ID: 680-261808-3 MS
Matrix: GW
Analysis Batch: 876271

Client Sample ID: AG21170
Prep Type: Total/NA
Prep Batch: 876179

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.9697		ug/L		97	80 - 120

Lab Sample ID: 680-261808-3 MSD
Matrix: GW
Analysis Batch: 876271

Client Sample ID: AG21170
Prep Type: Total/NA
Prep Batch: 876179

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.9459		ug/L		95	80 - 120	2	20

Lab Sample ID: MB 680-876211/1-A
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 876211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 12:55	02/18/25 18:27	1

Lab Sample ID: LCS 680-876211/2-A
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 876211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.570		ug/L		103	80 - 120

Lab Sample ID: 680-261710-D-6-C MS
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 876211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.9707		ug/L		97	80 - 120

Lab Sample ID: 680-261710-D-6-D MSD
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 876211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.9438		ug/L		94	80 - 120	3	20

Metals

Prep Batch: 876179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261808-2	AG21179	Total/NA	GW	7470A	
680-261808-3	AG21170	Total/NA	GW	7470A	
680-261808-7	AG21193	Total/NA	GW	7470A	
680-261808-8	AG21194	Total/NA	GW	7470A	
680-261808-9	AG21195	Total/NA	GW	7470A	
680-261808-11	AG21188	Total/NA	GW	7470A	
680-261808-12	AG21187	Total/NA	GW	7470A	
680-261808-15	AG21173	Total/NA	GW	7470A	
680-261808-18	AG21178	Total/NA	GW	7470A	
680-261808-20	AG21168	Total/NA	GW	7470A	
680-261808-23	AG21197	Total/NA	GW	7470A	
MB 680-876179/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-876179/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-261808-3 MS	AG21170	Total/NA	GW	7470A	
680-261808-3 MSD	AG21170	Total/NA	GW	7470A	

Prep Batch: 876211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261808-1	AG21180	Total/NA	GW	7470A	
680-261808-4	AG21171	Total/NA	GW	7470A	
680-261808-5	AG21172	Total/NA	GW	7470A	
680-261808-6	AG21190	Total/NA	GW	7470A	
680-261808-10	AG21196	Total/NA	GW	7470A	
680-261808-13	AG21189	Total/NA	GW	7470A	
680-261808-14	AG21176	Total/NA	GW	7470A	
680-261808-16	AG21177	Total/NA	GW	7470A	
680-261808-17	AG21175	Total/NA	GW	7470A	
680-261808-19	AG21167	Total/NA	GW	7470A	
680-261808-21	AG21191	Total/NA	GW	7470A	
680-261808-22	AG21192	Total/NA	GW	7470A	
680-261808-24	AG21182	Total/NA	GW	7470A	
680-261808-25	AG21184	Total/NA	GW	7470A	
680-261808-26	AG21185	Total/NA	GW	7470A	
MB 680-876211/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-876211/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-261710-D-6-C MS	Matrix Spike	Dissolved	Water	7470A	
680-261710-D-6-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

Analysis Batch: 876271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261808-1	AG21180	Total/NA	GW	7470A	876211
680-261808-2	AG21179	Total/NA	GW	7470A	876179
680-261808-3	AG21170	Total/NA	GW	7470A	876179
680-261808-4	AG21171	Total/NA	GW	7470A	876211
680-261808-5	AG21172	Total/NA	GW	7470A	876211
680-261808-6	AG21190	Total/NA	GW	7470A	876211
680-261808-7	AG21193	Total/NA	GW	7470A	876179
680-261808-8	AG21194	Total/NA	GW	7470A	876179
680-261808-9	AG21195	Total/NA	GW	7470A	876179
680-261808-10	AG21196	Total/NA	GW	7470A	876211
680-261808-11	AG21188	Total/NA	GW	7470A	876179

Metals (Continued)

Analysis Batch: 876271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261808-12	AG21187	Total/NA	GW	7470A	876179
680-261808-13	AG21189	Total/NA	GW	7470A	876211
680-261808-14	AG21176	Total/NA	GW	7470A	876211
680-261808-15	AG21173	Total/NA	GW	7470A	876179
680-261808-16	AG21177	Total/NA	GW	7470A	876211
680-261808-17	AG21175	Total/NA	GW	7470A	876211
680-261808-18	AG21178	Total/NA	GW	7470A	876179
680-261808-19	AG21167	Total/NA	GW	7470A	876211
680-261808-20	AG21168	Total/NA	GW	7470A	876179
680-261808-21	AG21191	Total/NA	GW	7470A	876211
680-261808-22	AG21192	Total/NA	GW	7470A	876211
680-261808-23	AG21197	Total/NA	GW	7470A	876179
680-261808-24	AG21182	Total/NA	GW	7470A	876211
680-261808-25	AG21184	Total/NA	GW	7470A	876211
680-261808-26	AG21185	Total/NA	GW	7470A	876211
MB 680-876179/1-A	Method Blank	Total/NA	Water	7470A	876179
MB 680-876211/1-A	Method Blank	Total/NA	Water	7470A	876211
LCS 680-876179/2-A	Lab Control Sample	Total/NA	Water	7470A	876179
LCS 680-876211/2-A	Lab Control Sample	Total/NA	Water	7470A	876211
680-261710-D-6-C MS	Matrix Spike	Dissolved	Water	7470A	876211
680-261710-D-6-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	876211
680-261808-3 MS	AG21170	Total/NA	GW	7470A	876179
680-261808-3 MSD	AG21170	Total/NA	GW	7470A	876179

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21180

Lab Sample ID: 680-261808-1

Date Collected: 02/03/25 09:30

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:25

Client Sample ID: AG21179

Lab Sample ID: 680-261808-2

Date Collected: 02/03/25 10:33

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:46

Client Sample ID: AG21170

Lab Sample ID: 680-261808-3

Date Collected: 02/03/25 11:54

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:13

Client Sample ID: AG21171

Lab Sample ID: 680-261808-4

Date Collected: 02/03/25 11:59

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:04

Client Sample ID: AG21172

Lab Sample ID: 680-261808-5

Date Collected: 02/03/25 13:51

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 18:59

Client Sample ID: AG21190

Lab Sample ID: 680-261808-6

Date Collected: 02/05/25 14:44

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 18:55

Client Sample ID: AG21193 — **Lab Sample ID: 680-261808-7**
Date Collected: 02/05/25 13:28 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:20

Client Sample ID: AG21194 — **Lab Sample ID: 680-261808-8**
Date Collected: 02/05/25 12:33 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:22

Client Sample ID: AG21195 — **Lab Sample ID: 680-261808-9**
Date Collected: 02/05/25 11:32 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:37

Client Sample ID: AG21196 — **Lab Sample ID: 680-261808-10**
Date Collected: 02/05/25 10:36 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:30

Client Sample ID: AG21188 — **Lab Sample ID: 680-261808-11**
Date Collected: 01/29/25 11:39 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:27

Client Sample ID: AG21187 — **Lab Sample ID: 680-261808-12**
Date Collected: 01/29/25 12:39 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:25

Client Sample ID: AG21189 — **Lab Sample ID: 680-261808-13**
Date Collected: 01/29/25 13:43 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 18:57

Client Sample ID: AG21176 — **Lab Sample ID: 680-261808-14**
Date Collected: 01/29/25 14:47 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:14

Client Sample ID: AG21173 — **Lab Sample ID: 680-261808-15**
Date Collected: 01/29/25 15:29 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:44

Client Sample ID: AG21177 — **Lab Sample ID: 680-261808-16**
Date Collected: 01/30/25 09:20 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:28

Client Sample ID: AG21175 — **Lab Sample ID: 680-261808-17**
Date Collected: 01/30/25 10:11 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:06

Client Sample ID: AG21178 — **Lab Sample ID: 680-261808-18**
Date Collected: 01/30/25 11:16 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:41

Client Sample ID: AG21167 — **Lab Sample ID: 680-261808-19**
Date Collected: 01/30/25 12:40 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:23

Client Sample ID: AG21168 — **Lab Sample ID: 680-261808-20**
Date Collected: 01/30/25 13:47 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 17:09

Client Sample ID: AG21191 — **Lab Sample ID: 680-261808-21**
Date Collected: 02/04/25 13:08 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:09

Client Sample ID: AG21192 — **Lab Sample ID: 680-261808-22**
Date Collected: 02/04/25 13:13 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:16

Client Sample ID: AG21197 — **Lab Sample ID: 680-261808-23**
Date Collected: 02/04/25 11:57 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:48

Client Sample ID: AG21182 — **Lab Sample ID: 680-261808-24**
Date Collected: 02/04/25 14:23 — **Matrix: GW**
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 18:48

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09-G01.1/36500

Job ID: 680-261808-1

Client Sample ID: AG21184

Lab Sample ID: 680-261808-25

Date Collected: 02/04/25 10:43

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:02

Client Sample ID: AG21185

Lab Sample ID: 680-261808-26

Date Collected: 02/04/25 09:44

Matrix: GW

Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876211	MG	EET SAV	02/18/25 12:55
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 19:11

Laboratory References:

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

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 2 / 21 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.681.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG			
AG21180	CCMAP-13	2/3/25	0930	ATH DCA	1	P	G	GW	2	7470 RL <0.2 ug/L	X			
69	CCMAP-12		1033											
70	CCMAP-4		1154											
71	CCMAP-4 DUP		1159											
72	CCMAP-5		1351											
AG21190	CGYP-1	2/5/25	1444	MDG DCA										
93	CGYP-3		1328											
94	CGYP-4		1233											
95	CGYP-5		1132											
96	CGYP-6		1036											

680-251808 Chain of Custody

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

Gypsum
- Wallboard
- ASTM
- TOC
- Total metals
- Soluble Metals
- Purity (CaSO4)
- % Moisture
- Sulfites
- pH
- Chlorides
- Particle Size
- Sulfur
- USDA

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
- BTUs
- **Ultimate**
- Volatile Matter
- CHN
- HGI

Other Analysis:
- Fineness
- Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Oil
- Trans. Oil Quality
- Color
- Strength
- IFT
- Dissolved Gases

Used Oil
- Metals
- Cl, Cr, Ni

COEFP

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Metals (All)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	
Sb	Se	Sn	Sr
Ti	Tl	V	Zn
Hg	CrVI	XRF scan	

RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	FED-EX	—	2/11/25	1000
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		C. Munro		2/12/25	1015
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

14.8/14.8

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 2 / 21 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AG21188	CCMLF-ID	1/29/25	1139	ATH CDA	1	P	G	GW	2	7470 RL<0.2 ug/L	X			
87	CCMLF-1		1239											
89	CCMLF-2		1343											
76	CCMAP-9		1447											
73	CCMAP-6		1529											
AG21177	CCMAP-10	1/30/25	0920	ATH DCA										
75	CCMAP-8		1011											
78	CCMAP-11		1116											
67	CCMAP-1		1240											
68	CCMAP-2		1347											

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	☐ Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	☐ Acidity	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ Soluble Metals	☐ BTUs	☐ Sieve	☐ Dielectric Strength	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ Purity (CaSO4)	Ultimate	☐ % Moisture	☐ Dissolved Gases	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ % Moisture	☐ Volatile Matter		☐ Used Oil	☐ pH	☐ Ti ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES	☐ Flashpoint	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As		☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS	GOFER	☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter			☐ PCB	
	☐ USDA					

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	FED-EX	—	2/11/25	1000
		C. Munn		2/12/25	1015

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

14.8/14.8

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 2 / 21 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.681.1 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AG 21191	CGYP-2	2/4/25	1308	MDG DA	1	P	G	GW	2	7470 RL<0.2 µg/L	X			
92	CGYP-2 DUP	"	1313	"	"	"	"	"	"	"	"			
97	CGYP-7	"	1157	"	"	"	"	"	"	"	"			
82	CCMGP-1	"	1423	"	"	"	"	"	"	"	"			
84	CCMGP-3	"	1043	"	"	"	"	"	"	"	"			
85	CCMGP-4	"	0944	"	"	"	"	"	"	"	"			

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

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

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
- BTUs
- Ultimate
- Volatile Matter
- CHN
- HGI
- Other Analysis:
  - Fineness
  - Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Oil
- Trans. Oil Quality
- % Moisture
- Color
- Acidity
- Dielectric Strength
- IFT
- Dissolved Gases

Used Oil
- Flashpoint
- Metals (As, Cd, Cr, Ni, Pb, Hg)

COEFF

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Metals (All)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	[redacted]	Pb
Sb	Se	Sn	Sr
Ti	Tl	V	Zn
Hg	CrVI	XRF scan	

RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	FED-EX	—	2/11/25	1000
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		C. Mann		2/12/25	1015
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #: 14.8/14.8

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-261808-1

Login Number: 261808

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-261808-1
Project/Site: 125915/JM02.09-G01.1/36500

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/19/2025 8:47:45 AM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

680-261801-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

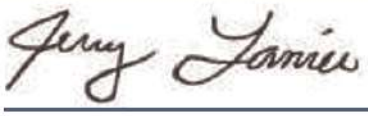
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
2/19/2025 8:47:45 AM

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

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Sample Summary 5
Method Summary 6
Definitions 7
Detection Summary 8
Client Sample Results 9
QC Sample Results 17
QC Association 18
Chronicle 19
Chain of Custody 21
Receipt Checklists 22
Certification Summary 23

Job ID: 680-261801-1 — Eurofins Savannah

Job Narrative
680-261801-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/12/2025 10:15 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 14.3°C.

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

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261801-1	AG21212	GW	01/28/25 10:12	02/12/25 10:15
680-261801-2	AG21207	GW	01/28/25 10:56	02/12/25 10:15
680-261801-3	AG21209	GW	01/28/25 13:39	02/12/25 10:15
680-261801-4	AG21206	GW	01/28/25 14:39	02/12/25 10:15
680-261801-5	AG21210	GW	01/29/25 09:28	02/12/25 10:15
680-261801-6	AG21211	GW	01/29/25 09:33	02/12/25 10:15
680-261801-7	AG21183	GW	02/06/25 09:13	02/12/25 10:15
680-261801-8	AG21186	GW	02/03/25 15:09	02/12/25 10:15

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

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/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21212 — **Lab Sample ID: 680-261801-1**

No Detections.

Client Sample ID: AG21207 — **Lab Sample ID: 680-261801-2**

No Detections.

Client Sample ID: AG21209 — **Lab Sample ID: 680-261801-3**

No Detections.

Client Sample ID: AG21206 — **Lab Sample ID: 680-261801-4**

No Detections.

Client Sample ID: AG21210 — **Lab Sample ID: 680-261801-5**

No Detections.

Client Sample ID: AG21211 — **Lab Sample ID: 680-261801-6**

No Detections.

Client Sample ID: AG21183 — **Lab Sample ID: 680-261801-7**

No Detections.

Client Sample ID: AG21186 — **Lab Sample ID: 680-261801-8**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21212
Date Collected: 01/28/25 10:12
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-1
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:39	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21207
Date Collected: 01/28/25 10:56
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-2
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:29	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21209
Date Collected: 01/28/25 13:39
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-3
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:55	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21206
Date Collected: 01/28/25 14:39
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-4
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 17:07	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21210
Date Collected: 01/29/25 09:28
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-5
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:53	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21211
Date Collected: 01/29/25 09:33
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-6
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:58	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21183
Date Collected: 02/06/25 09:13
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-7
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 17:05	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21186
Date Collected: 02/03/25 15:09
Date Received: 02/12/25 10:15

Lab Sample ID: 680-261801-8
Matrix: GW

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:51	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-876179/1-A
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 876179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/18/25 10:53	02/18/25 16:08	1

Lab Sample ID: LCS 680-876179/2-A
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 876179

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.50	2.731		ug/L		109	80 - 120		

Lab Sample ID: 680-261808-A-3-B MS
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 876179

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.200	U	1.00	0.9697		ug/L		97	80 - 120		

Lab Sample ID: 680-261808-A-3-C MSD
Matrix: Water
Analysis Batch: 876271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 876179

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	0.9459		ug/L		95	80 - 120	2	20

Metals

Prep Batch: 876179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261801-1	AG21212	Total/NA	GW	7470A	
680-261801-2	AG21207	Total/NA	GW	7470A	
680-261801-3	AG21209	Total/NA	GW	7470A	
680-261801-4	AG21206	Total/NA	GW	7470A	
680-261801-5	AG21210	Total/NA	GW	7470A	
680-261801-6	AG21211	Total/NA	GW	7470A	
680-261801-7	AG21183	Total/NA	GW	7470A	
680-261801-8	AG21186	Total/NA	GW	7470A	
MB 680-876179/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-876179/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-261808-A-3-B MS	Matrix Spike	Total/NA	Water	7470A	
680-261808-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 876271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261801-1	AG21212	Total/NA	GW	7470A	876179
680-261801-2	AG21207	Total/NA	GW	7470A	876179
680-261801-3	AG21209	Total/NA	GW	7470A	876179
680-261801-4	AG21206	Total/NA	GW	7470A	876179
680-261801-5	AG21210	Total/NA	GW	7470A	876179
680-261801-6	AG21211	Total/NA	GW	7470A	876179
680-261801-7	AG21183	Total/NA	GW	7470A	876179
680-261801-8	AG21186	Total/NA	GW	7470A	876179
MB 680-876179/1-A	Method Blank	Total/NA	Water	7470A	876179
LCS 680-876179/2-A	Lab Control Sample	Total/NA	Water	7470A	876179
680-261808-A-3-B MS	Matrix Spike	Total/NA	Water	7470A	876179
680-261808-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	876179

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21212

Lab Sample ID: 680-261801-1

Date Collected: 01/28/25 10:12
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:39

Client Sample ID: AG21207

Lab Sample ID: 680-261801-2

Date Collected: 01/28/25 10:56
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:29

Client Sample ID: AG21209

Lab Sample ID: 680-261801-3

Date Collected: 01/28/25 13:39
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:55

Client Sample ID: AG21206

Lab Sample ID: 680-261801-4

Date Collected: 01/28/25 14:39
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 17:07

Client Sample ID: AG21210

Lab Sample ID: 680-261801-5

Date Collected: 01/29/25 09:28
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:53

Client Sample ID: AG21211

Lab Sample ID: 680-261801-6

Date Collected: 01/29/25 09:33
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:58

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-261801-1

Client Sample ID: AG21183

Lab Sample ID: 680-261801-7

Date Collected: 02/06/25 09:13
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 17:05

Client Sample ID: AG21186

Lab Sample ID: 680-261801-8

Date Collected: 02/03/25 15:09
Matrix: GW
Date Received: 02/12/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			876179	MG	EET SAV	02/18/25 10:53
Total/NA	Analysis	7470A		1	876271	BJB	EET SAV	02/18/25 16:51

Laboratory References:

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

Contract Lab Info: TA · SAV Contract Lab Due Date (Lab Only): 2 / 21 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

2/19/2025

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AG21212	POZ-8	1/28/25	1012	ATH DCA	1	P	G	GW	2	7470 RL<0.2 ug/L	X			
07	POZ-4		1056											
09	POZ-6		1339											
06	POZ-3		1439											
AG21210	POZ-7	1/29/25	0928											
11	POZ-7 DUP		0933											
AG21183	CCMGP-2	2/6/25	0913											
AG21186	CCMGP-5	2/3/25	1509											

680-261801 Chain of Custody

Page 21 of 23

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	☐ Acidity	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ Soluble Metals	☐ BTUs	☐ Sieve	☐ Dielectric Strength	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ Purity (CaSO4)	Ultimate	☐ % Moisture	☐ IFT	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ % Moisture	☐ Volatile Matter		☐ Dissolved Gases	☐ pH	☐ Ti ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES		☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	Used Oil	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As	☐ Flashpoint	☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter			☐ PCB	
	☐ USDA			GOFER		

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	FED-EX	—	2/11/25	1000
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		DM	JM	2-12-25	1015
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): 14.3/14.3

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-261801-1

Login Number: 261801

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-261801-1
Project/Site: 125915/JM02.09.G01.1/36500

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/2/2025 9:55:10 AM

JOB DESCRIPTION

125915/JM02.09.G01.1/3610

JOB NUMBER

705-34172-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Eurofins Atlanta

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
7/2/2025 9:55:10 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Sample Summary 6
Method Summary 7
Definitions 8
Client Sample Results 9
QC Association 10
QC Sample Results 11
Chronicle 12
Chain of Custody 14
Receipt Checklists 15
Certification Summary 16
End Of Report 17

Job ID: 705-34172-1 — Eurofins Atlanta

Job Narrative
705-34172-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/19/2025 12:44 PM. 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.

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Client Sample ID: AG34941 — **Lab Sample ID: 705-34172-1**

No Detections.

Client Sample ID: AG34938 — **Lab Sample ID: 705-34172-2**

No Detections.

Client Sample ID: AG34935 — **Lab Sample ID: 705-34172-3**

No Detections.

Client Sample ID: AG34934 — **Lab Sample ID: 705-34172-4**

No Detections.

Client Sample ID: AZ34940 — **Lab Sample ID: 705-34172-5**

No Detections.

Client Sample ID: AZ34912 — **Lab Sample ID: 705-34172-6**

No Detections.

Client Sample ID: AZ34936 — **Lab Sample ID: 705-34172-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-34172-1	AG34941	Water	06/10/25 09:53	06/19/25 12:44
705-34172-2	AG34938	Water	06/10/25 12:10	06/19/25 12:44
705-34172-3	AG34935	Water	06/10/25 13:14	06/19/25 12:44
705-34172-4	AG34934	Water	06/10/25 14:17	06/19/25 12:44
705-34172-5	AZ34940	Water	06/10/25 14:22	06/19/25 12:44
705-34172-6	AZ34912	Water	06/10/25 16:02	06/19/25 12:44
705-34172-7	AZ34936	Water	06/09/25 16:33	06/19/25 12:44

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

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

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Client Sample ID: AG34941 — Lab Sample ID: 705-34172-1

Date Collected: 06/10/25 09:53
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:11	1

Client Sample ID: AG34938 — Lab Sample ID: 705-34172-2

Date Collected: 06/10/25 12:10
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:14	1

Client Sample ID: AG34935 — Lab Sample ID: 705-34172-3

Date Collected: 06/10/25 13:14
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:18	1

Client Sample ID: AG34934 — Lab Sample ID: 705-34172-4

Date Collected: 06/10/25 14:17
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:22	1

Client Sample ID: AZ34940 — Lab Sample ID: 705-34172-5

Date Collected: 06/10/25 14:22
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:26	1

Client Sample ID: AZ34912 — Lab Sample ID: 705-34172-6

Date Collected: 06/10/25 16:02
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:30	1

Client Sample ID: AZ34936 — Lab Sample ID: 705-34172-7

Date Collected: 06/09/25 16:33
Date Received: 06/19/25 12:44
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 18:46	1

Metals

Prep Batch: 64872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-34172-1	AG34941	Total/NA	Water	7470A	
705-34172-2	AG34938	Total/NA	Water	7470A	
705-34172-3	AG34935	Total/NA	Water	7470A	
705-34172-4	AG34934	Total/NA	Water	7470A	
705-34172-5	AZ34940	Total/NA	Water	7470A	
705-34172-6	AZ34912	Total/NA	Water	7470A	
705-34172-7	AZ34936	Total/NA	Water	7470A	
MB 705-64872/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-64872/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-34417-F-25-C MS	Matrix Spike	Total/NA	Water	7470A	
705-34417-F-25-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 64962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-34172-1	AG34941	Total/NA	Water	7470A	64872
705-34172-2	AG34938	Total/NA	Water	7470A	64872
705-34172-3	AG34935	Total/NA	Water	7470A	64872
705-34172-4	AG34934	Total/NA	Water	7470A	64872
705-34172-5	AZ34940	Total/NA	Water	7470A	64872
705-34172-6	AZ34912	Total/NA	Water	7470A	64872
705-34172-7	AZ34936	Total/NA	Water	7470A	64872
MB 705-64872/1-A	Method Blank	Total/NA	Water	7470A	64872
LCS 705-64872/2-A	Lab Control Sample	Total/NA	Water	7470A	64872
705-34417-F-25-C MS	Matrix Spike	Total/NA	Water	7470A	64872
705-34417-F-25-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	64872

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-64872/1-A
Matrix: Water
Analysis Batch: 64962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 15:24	1

Lab Sample ID: LCS 705-64872/2-A
Matrix: Water
Analysis Batch: 64962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003210		mg/L		80	80 - 120

Lab Sample ID: 705-34417-F-25-C MS
Matrix: Water
Analysis Batch: 64962

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.003303		mg/L		83	75 - 125

Lab Sample ID: 705-34417-F-25-D MSD
Matrix: Water
Analysis Batch: 64962

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.003219		mg/L		80	75 - 125	3	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Client Sample ID: AG34941

Lab Sample ID: 705-34172-1

Date Collected: 06/10/25 09:53
Matrix: Water
Date Received: 06/19/25 12:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:11

Client Sample ID: AG34938

Lab Sample ID: 705-34172-2

Date Collected: 06/10/25 12:10
Matrix: Water
Date Received: 06/19/25 12:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:14

Client Sample ID: AG34935

Lab Sample ID: 705-34172-3

Date Collected: 06/10/25 13:14
Matrix: Water
Date Received: 06/19/25 12:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:18

Client Sample ID: AG34934

Lab Sample ID: 705-34172-4

Date Collected: 06/10/25 14:17
Matrix: Water
Date Received: 06/19/25 12:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:22

Client Sample ID: AZ34940

Lab Sample ID: 705-34172-5

Date Collected: 06/10/25 14:22
Matrix: Water
Date Received: 06/19/25 12:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:26

Client Sample ID: AZ34912

Lab Sample ID: 705-34172-6

Date Collected: 06/10/25 16:02
Matrix: Water
Date Received: 06/19/25 12:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:30

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/3610

Job ID: 705-34172-1

Client Sample ID: AZ34936
Date Collected: 06/09/25 16:33
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34172-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 18:46

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Contract Lab Info: EUROFINS-ATL Contract Lab Due Date (Lab Only): 6 / 27 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

7/2/2025

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.681.1 / 36110

Rerun request for any flagged Q (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AG34941	POZ-8	6/10/25	0953	AGP EA	1	P	G	GW	2	7470 RL < 0.2 ug/L	X			
AG34938	POZ-6		1210											
AG34935	POZ-3		1314											
AG34934	POZ-7		1417											
AG34940	POZ-7 DUP		1422											
AG34912	CCMGP-2	6/10/25	1602											
AG34936	POZ-4	6/9/25	1633											

705-34172 COC

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis	[redacted]	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ Soluble Metals	☐ BTUs	☐ Sieve	☐ Dissolved Gases	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ Purity (CaSO4)	Ultimate	☐ % Moisture	☐ Used Oil	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ % Moisture	☐ Volatile Matter		☐ Flashpoint	☐ pH	☐ ■ ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES	[redacted]	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ GOFER	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As		☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter			☐ PCB	
	☐ USDA					

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	FED-EX	—	6/18/25	1000
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		KCW		6/19/25	9:44
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): 24.0 # 2665

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-34172-1

Login Number: 34172
List Number: 1
Creator: Ceclu, Rodica

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
The cooler does not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-34172-1
Project/Site: 125915/JM02.09.G01.1/3610

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25
South Carolina	State	98016	06-30-25

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/30/2025 9:22:57 AM

JOB DESCRIPTION

125915/JM02.08.G01.3/36110

JOB NUMBER

705-31256-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Eurofins Atlanta

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
5/30/2025 9:22:57 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Sample Summary 6
Method Summary 7
Definitions 8
Client Sample Results 9
QC Association 10
QC Sample Results 11
Chronicle 12
Chain of Custody 14
Receipt Checklists 15
Certification Summary 16
End Of Report 17

Job ID: 705-31256-1 — Eurofins Atlanta

Job Narrative
705-31256-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/22/2025 9:33 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 23.2°C.

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33008 — **Lab Sample ID: 705-31256-1**

No Detections.

Client Sample ID: AG33009 — **Lab Sample ID: 705-31256-2**

No Detections.

Client Sample ID: AG33010 — **Lab Sample ID: 705-31256-3**

No Detections.

Client Sample ID: AG33011 — **Lab Sample ID: 705-31256-4**

No Detections.

Client Sample ID: AG33005 — **Lab Sample ID: 705-31256-5**

No Detections.

Client Sample ID: AG33006 — **Lab Sample ID: 705-31256-6**

No Detections.

Client Sample ID: AG33007 — **Lab Sample ID: 705-31256-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-31256-1	AG33008	Water	05/14/25 10:28	05/22/25 09:33
705-31256-2	AG33009	Water	05/14/25 11:52	05/22/25 09:33
705-31256-3	AG33010	Water	05/14/25 11:57	05/22/25 09:33
705-31256-4	AG33011	Water	05/14/25 13:00	05/22/25 09:33
705-31256-5	AG33005	Water	05/13/25 10:39	05/22/25 09:33
705-31256-6	AG33006	Water	05/13/25 11:43	05/22/25 09:33
705-31256-7	AG33007	Water	05/13/25 11:48	05/22/25 09:33

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33008
Lab Sample ID: 705-31256-1
Date Collected: 05/14/25 10:28
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:14	1

Client Sample ID: AG33009
Lab Sample ID: 705-31256-2
Date Collected: 05/14/25 11:52
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:18	1

Client Sample ID: AG33010
Lab Sample ID: 705-31256-3
Date Collected: 05/14/25 11:57
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:33	1

Client Sample ID: AG33011
Lab Sample ID: 705-31256-4
Date Collected: 05/14/25 13:00
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:37	1

Client Sample ID: AG33005
Lab Sample ID: 705-31256-5
Date Collected: 05/13/25 10:39
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:41	1

Client Sample ID: AG33006
Lab Sample ID: 705-31256-6
Date Collected: 05/13/25 11:43
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:45	1

Client Sample ID: AG33007
Lab Sample ID: 705-31256-7
Date Collected: 05/13/25 11:48
Matrix: Water
Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:49	1

Metals

Prep Batch: 57945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-31256-1	AG33008	Total/NA	Water	7470A	
705-31256-2	AG33009	Total/NA	Water	7470A	
705-31256-3	AG33010	Total/NA	Water	7470A	
705-31256-4	AG33011	Total/NA	Water	7470A	
705-31256-5	AG33005	Total/NA	Water	7470A	
705-31256-6	AG33006	Total/NA	Water	7470A	
705-31256-7	AG33007	Total/NA	Water	7470A	
MB 705-57945/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-57945/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-30630-D-2-E MS	Matrix Spike	Total/NA	Water	7470A	
705-30630-D-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 58120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-31256-1	AG33008	Total/NA	Water	7470A	57945
705-31256-2	AG33009	Total/NA	Water	7470A	57945
705-31256-3	AG33010	Total/NA	Water	7470A	57945
705-31256-4	AG33011	Total/NA	Water	7470A	57945
705-31256-5	AG33005	Total/NA	Water	7470A	57945
705-31256-6	AG33006	Total/NA	Water	7470A	57945
705-31256-7	AG33007	Total/NA	Water	7470A	57945
MB 705-57945/1-A	Method Blank	Total/NA	Water	7470A	57945
LCS 705-57945/2-A	Lab Control Sample	Total/NA	Water	7470A	57945
705-30630-D-2-E MS	Matrix Spike	Total/NA	Water	7470A	57945
705-30630-D-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	57945

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-57945/1-A
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 20:50	1

Lab Sample ID: LCS 705-57945/2-A
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57945

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00400	0.003996		mg/L		100	80 - 120		

Lab Sample ID: 705-30630-D-2-E MS
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.000200	U	0.00400	0.004137		mg/L		103	75 - 125		

Lab Sample ID: 705-30630-D-2-F MSD
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.004165		mg/L		104	75 - 125	1	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33008

Lab Sample ID: 705-31256-1

Date Collected: 05/14/25 10:28
Date Received: 05/22/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:14

Client Sample ID: AG33009

Lab Sample ID: 705-31256-2

Date Collected: 05/14/25 11:52
Date Received: 05/22/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:18

Client Sample ID: AG33010

Lab Sample ID: 705-31256-3

Date Collected: 05/14/25 11:57
Date Received: 05/22/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:33

Client Sample ID: AG33011

Lab Sample ID: 705-31256-4

Date Collected: 05/14/25 13:00
Date Received: 05/22/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:37

Client Sample ID: AG33005

Lab Sample ID: 705-31256-5

Date Collected: 05/13/25 10:39
Date Received: 05/22/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:41

Client Sample ID: AG33006

Lab Sample ID: 705-31256-6

Date Collected: 05/13/25 11:43
Date Received: 05/22/25 09:33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:45

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33007
Date Collected: 05/13/25 11:48
Date Received: 05/22/25 09:33

Lab Sample ID: 705-31256-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:49

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Contract Lab Info: EUROFINS - ATL Contract Lab Due Date (Lab Only): 5 / 30 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.GB1.3 / 36110

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG			
AG33008	WAP-30	5/14/25	1028	ATH AGP	1	P	G	GW	2	METHOD 7470 RL <0.2 ug/L	X			
09	WAP-2R		1152											
10	WAP-2R DUP		1157											
11	WAP-28R		1300											
AG33005	CGYP-5	5/13/25	1039											
06	CGYP-6		1143											
07	CGYP-6 DUP		1148											

705-31256 COC

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

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

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- Ultimate
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	FED-EX	—	5/21/25	1000
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		[signature]		05/22/2025	09:33
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): 23.2

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-31256-1

Login Number: 31256
List Number: 1
Creator: Torres, Dominique

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-31256-1
Project/Site: 125915/JM02.08.G01.3/36110

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25
South Carolina	State	98016	06-30-25

END OF REPORT

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/13/2025 9:22:47 AM

JOB DESCRIPTION

125915/JM02.09.G01/36500

JOB NUMBER

705-33233-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
6/13/2025 9:22:47 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Sample Summary 6
Method Summary 7
Definitions 8
Client Sample Results 9
QC Association 11
QC Sample Results 12
Chronicle 13
Chain of Custody 15
Receipt Checklists 16
Certification Summary 17
End Of Report 18

Job ID: 705-33233-1 — Eurofins Atlanta

Job Narrative
705-33233-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/11/2025 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Client Sample ID: AG34934 — **Lab Sample ID: 705-33233-1**

No Detections.

Client Sample ID: AG34930 — **Lab Sample ID: 705-33233-2**

No Detections.

Client Sample ID: AG34929 — **Lab Sample ID: 705-33233-3**

No Detections.

Client Sample ID: AG34911 — **Lab Sample ID: 705-33233-4**

No Detections.

Client Sample ID: AG34927 — **Lab Sample ID: 705-33233-5**

No Detections.

Client Sample ID: AG34928 — **Lab Sample ID: 705-33233-6**

No Detections.

Client Sample ID: AG34933 — **Lab Sample ID: 705-33233-7**

No Detections.

Client Sample ID: AG34926 — **Lab Sample ID: 705-33233-8**

No Detections.

Client Sample ID: AG34895 — **Lab Sample ID: 705-33233-9**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-33233-1	AG34934	Water	06/02/25 10:34	06/11/25 10:00
705-33233-2	AG34930	Water	06/05/25 10:47	06/11/25 10:00
705-33233-3	AG34929	Water	06/05/25 11:45	06/11/25 10:00
705-33233-4	AG34911	Water	06/05/25 12:44	06/11/25 10:00
705-33233-5	AG34927	Water	06/05/25 13:39	06/11/25 10:00
705-33233-6	AG34928	Water	06/05/25 13:44	06/11/25 10:00
705-33233-7	AG34933	Water	06/05/25 14:50	06/11/25 10:00
705-33233-8	AG34926	Water	06/05/25 15:48	06/11/25 10:00
705-33233-9	AG34895	Water	06/03/25 10:21	06/11/25 10:00

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

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

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Client Sample ID: AG34934 — **Lab Sample ID: 705-33233-1**
Date Collected: 06/02/25 10:34 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:18	1

Client Sample ID: AG34930 — **Lab Sample ID: 705-33233-2**
Date Collected: 06/05/25 10:47 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:30	1

Client Sample ID: AG34929 — **Lab Sample ID: 705-33233-3**
Date Collected: 06/05/25 11:45 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:34	1

Client Sample ID: AG34911 — **Lab Sample ID: 705-33233-4**
Date Collected: 06/05/25 12:44 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:38	1

Client Sample ID: AG34927 — **Lab Sample ID: 705-33233-5**
Date Collected: 06/05/25 13:39 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:42	1

Client Sample ID: AG34928 — **Lab Sample ID: 705-33233-6**
Date Collected: 06/05/25 13:44 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:45	1

Client Sample ID: AG34933 — **Lab Sample ID: 705-33233-7**
Date Collected: 06/05/25 14:50 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 19:24	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Client Sample ID: AG34926 — **Lab Sample ID: 705-33233-8**
Date Collected: 06/05/25 15:48 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 19:28	1

Client Sample ID: AG34895 — **Lab Sample ID: 705-33233-9**
Date Collected: 06/03/25 10:21 — **Matrix: Water**
Date Received: 06/11/25 10:00

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 19:32	1

Metals

Prep Batch: 61050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33233-1	AG34934	Total/NA	Water	7470A	
705-33233-2	AG34930	Total/NA	Water	7470A	
705-33233-3	AG34929	Total/NA	Water	7470A	
705-33233-4	AG34911	Total/NA	Water	7470A	
705-33233-5	AG34927	Total/NA	Water	7470A	
705-33233-6	AG34928	Total/NA	Water	7470A	
705-33233-7	AG34933	Total/NA	Water	7470A	
705-33233-8	AG34926	Total/NA	Water	7470A	
705-33233-9	AG34895	Total/NA	Water	7470A	
MB 705-61050/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-61050/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-33233-1 MS	AG34934	Total/NA	Water	7470A	
705-33233-1 MSD	AG34934	Total/NA	Water	7470A	

Analysis Batch: 61272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33233-1	AG34934	Total/NA	Water	7470A	61050
705-33233-2	AG34930	Total/NA	Water	7470A	61050
705-33233-3	AG34929	Total/NA	Water	7470A	61050
705-33233-4	AG34911	Total/NA	Water	7470A	61050
705-33233-5	AG34927	Total/NA	Water	7470A	61050
705-33233-6	AG34928	Total/NA	Water	7470A	61050
705-33233-7	AG34933	Total/NA	Water	7470A	61050
705-33233-8	AG34926	Total/NA	Water	7470A	61050
705-33233-9	AG34895	Total/NA	Water	7470A	61050
MB 705-61050/1-A	Method Blank	Total/NA	Water	7470A	61050
LCS 705-61050/2-A	Lab Control Sample	Total/NA	Water	7470A	61050
705-33233-1 MS	AG34934	Total/NA	Water	7470A	61050
705-33233-1 MSD	AG34934	Total/NA	Water	7470A	61050

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-61050/1-A
Matrix: Water
Analysis Batch: 61272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/12/25 13:30	06/12/25 18:10	1

Lab Sample ID: LCS 705-61050/2-A
Matrix: Water
Analysis Batch: 61272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.004078		mg/L		102	80 - 120

Lab Sample ID: 705-33233-1 MS
Matrix: Water
Analysis Batch: 61272

Client Sample ID: AG34934
Prep Type: Total/NA
Prep Batch: 61050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.003985		mg/L		100	75 - 125

Lab Sample ID: 705-33233-1 MSD
Matrix: Water
Analysis Batch: 61272

Client Sample ID: AG34934
Prep Type: Total/NA
Prep Batch: 61050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.004035		mg/L		101	75 - 125	1	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Client Sample ID: AG34934

Lab Sample ID: 705-33233-1

Date Collected: 06/02/25 10:34
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 18:18

Client Sample ID: AG34930

Lab Sample ID: 705-33233-2

Date Collected: 06/05/25 10:47
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 18:30

Client Sample ID: AG34929

Lab Sample ID: 705-33233-3

Date Collected: 06/05/25 11:45
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 18:34

Client Sample ID: AG34911

Lab Sample ID: 705-33233-4

Date Collected: 06/05/25 12:44
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 18:38

Client Sample ID: AG34927

Lab Sample ID: 705-33233-5

Date Collected: 06/05/25 13:39
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 18:42

Client Sample ID: AG34928

Lab Sample ID: 705-33233-6

Date Collected: 06/05/25 13:44
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 18:45

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 705-33233-1

Client Sample ID: AG34933

Lab Sample ID: 705-33233-7

Date Collected: 06/05/25 14:50
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 19:24

Client Sample ID: AG34926

Lab Sample ID: 705-33233-8

Date Collected: 06/05/25 15:48
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 19:28

Client Sample ID: AG34895

Lab Sample ID: 705-33233-9

Date Collected: 06/03/25 10:21
Matrix: Water
Date Received: 06/11/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			61050	GR	EET ATL	06/12/25 13:30
Total/NA	Analysis	7470A		1	61272	GR	EET ATL	06/12/25 19:32

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Contract Lab Info: EUROFINS - ATL Contract Lab Due Date (Lab Only): 6 / 18 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09-G01 / 36500

Rerun request for any flagged d (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG34934	PM-1	6/2/25	1084	AGP EA	1	P	G	GW	2	7470 RL= 0.2 ug/L	x
AG34930	CGYP-4	6/5/25	1047								
AG34929	CGYP-3		1145								
AG34911	CONGP-1		1244								
AG34927	CGYP-2		1339								
AG34928	CGYP-2 DUP		1344								
AG34933	CGYP-7		1450								
AG34926	CGYP-1		1548								
AG34895	CBW-1	6/3/25	1021								

705-33233 COC

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

Gypsum
☐ Wallboard
☐ ASM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐
☐ Particle Size
☐ Sulfur
☐ USDA

Coal
☐ Short Prox.
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
Ultimate
☐ Volatile Matter
☐ CHN
☐ HGI
Other Analysis:
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Quality
Moisture
Color
Acidity
Dielectric strength
IFT
Dissolved Gases
Fluid Oil
Halogens
Metals (Cu, Fe, Pb, Ni, Hg)
COPPER

MISC.
☐ BTEX
☐ Naphthalene
☐ VOA/Semi
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

☐ Metals (All)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	Pb
Sb	Se	Sn	Sr
Ti	Tl	V	Zn
Hg	CVL	XRF scan	

RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	FED-EX	—	6/10/25	1150
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		Andrew Re		6/11/25	1020
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

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

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-33233-1

Login Number: 33233
List Number: 1
Creator: Myndresku, Victor

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-33233-1
Project/Site: 125915/JM02.09.G01/36500

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25
South Carolina	State	98016	06-30-25

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/7/2025 5:52:45 PM

JOB DESCRIPTION

125915/JM02.09.G01/36500

JOB NUMBER

680-261276-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

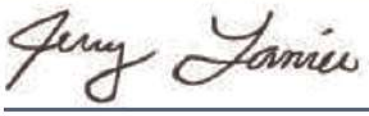
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
2/7/2025 5:52:45 PM

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

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Sample Summary 5
Method Summary 6
Definitions 7
Detection Summary 8
Client Sample Results 9
QC Sample Results 17
QC Association 19
Chronicle 21
Chain of Custody 23
Receipt Checklists 24
Certification Summary 25

Job ID: 680-261276-1 — Eurofins Savannah

Job Narrative
680-261276-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/29/2025 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.1°C.

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

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261276-1	AG21159	Water	01/16/25 09:54	01/29/25 11:00
680-261276-2	AG21160	Water	01/16/25 09:59	01/29/25 11:00
680-261276-3	AG21164	Water	01/16/25 14:08	01/29/25 11:00
680-261276-4	AG21205	Water	01/14/25 10:19	01/29/25 11:00
680-261276-5	AG21166	Water	01/14/25 11:54	01/29/25 11:00
680-261276-6	AG21169	Water	01/21/25 10:10	01/29/25 11:00
680-261276-7	AG21174	Water	01/21/25 11:19	01/29/25 11:00
680-261276-8	AG21181	Water	01/21/25 12:17	01/29/25 11:00

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21159 — **Lab Sample ID: 680-261276-1**

No Detections.

Client Sample ID: AG21160 — **Lab Sample ID: 680-261276-2**

No Detections.

Client Sample ID: AG21164 — **Lab Sample ID: 680-261276-3**

No Detections.

Client Sample ID: AG21205 — **Lab Sample ID: 680-261276-4**

No Detections.

Client Sample ID: AG21166 — **Lab Sample ID: 680-261276-5**

No Detections.

Client Sample ID: AG21169 — **Lab Sample ID: 680-261276-6**

No Detections.

Client Sample ID: AG21174 — **Lab Sample ID: 680-261276-7**

No Detections.

Client Sample ID: AG21181 — **Lab Sample ID: 680-261276-8**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21159
Date Collected: 01/16/25 09:54
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-1
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/04/25 14:09	02/04/25 19:20	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21160
Date Collected: 01/16/25 09:59
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-2
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/30/25 12:20	01/31/25 10:16	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21164
Date Collected: 01/16/25 14:08
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-3
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/30/25 12:20	01/31/25 10:30	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21205
Date Collected: 01/14/25 10:19
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-4
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/04/25 14:09	02/04/25 19:29	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21166
Date Collected: 01/14/25 11:54
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-5
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/30/25 12:20	01/31/25 10:11	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21169
Date Collected: 01/21/25 10:10
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-6
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1	0.200		ug/L		02/04/25 14:09	02/04/25 19:13	1
Mercury	0.200	U	0.200		ug/L		02/06/25 09:32	02/06/25 15:08	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21174
Date Collected: 01/21/25 11:19
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-7
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/04/25 14:09	02/04/25 19:27	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21181
Date Collected: 01/21/25 12:17
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261276-8
Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/04/25 14:09	02/04/25 19:32	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-873869/1-A
Matrix: Water
Analysis Batch: 874046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 873869

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		01/30/25 12:20	01/31/25 09:34	1

Lab Sample ID: LCS 680-873869/2-A
Matrix: Water
Analysis Batch: 874046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 873869

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.469		ug/L		99	80 - 120

Lab Sample ID: 705-18469-M-2-D MS
Matrix: Water
Analysis Batch: 874046

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 873869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	1.053		ug/L		105	80 - 120

Lab Sample ID: 705-18469-M-2-E MSD
Matrix: Water
Analysis Batch: 874046

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 873869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	1.043		ug/L		104	80 - 120	1	20

Lab Sample ID: MB 680-874409/1-A
Matrix: Water
Analysis Batch: 874508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 874409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/04/25 14:09	02/04/25 19:08	1

Lab Sample ID: LCS 680-874409/2-A
Matrix: Water
Analysis Batch: 874508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 874409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.747		ug/L		110	80 - 120

Lab Sample ID: 680-261276-6 MS
Matrix: Water
Analysis Batch: 874508

Client Sample ID: AG21169
Prep Type: Total/NA
Prep Batch: 874409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.4607	F1	ug/L		46	80 - 120

Lab Sample ID: 680-261276-6 MSD
Matrix: Water
Analysis Batch: 874508

Client Sample ID: AG21169
Prep Type: Total/NA
Prep Batch: 874409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U F1	1.00	0.4203	F1	ug/L		42	80 - 120	9	20

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-874685/1-A
Matrix: Water
Analysis Batch: 874867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 874685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		02/06/25 09:32	02/06/25 14:21	1

Lab Sample ID: LCS 680-874685/2-A
Matrix: Water
Analysis Batch: 874867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 874685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.572		ug/L		103	80 - 120

Lab Sample ID: 400-270127-C-5-H MS
Matrix: Water
Analysis Batch: 874867

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 874685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	1.012		ug/L		101	80 - 120

Lab Sample ID: 400-270127-C-5-I MSD
Matrix: Water
Analysis Batch: 874867

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 874685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	U	1.00	1.033		ug/L		103	80 - 120	2	20

Metals

Prep Batch: 873869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261276-2	AG21160	Total/NA	Water	7470A	
680-261276-3	AG21164	Total/NA	Water	7470A	
680-261276-5	AG21166	Total/NA	Water	7470A	
MB 680-873869/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-873869/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-18469-M-2-D MS	Matrix Spike	Total/NA	Water	7470A	
705-18469-M-2-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 874046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261276-2	AG21160	Total/NA	Water	7470A	873869
680-261276-3	AG21164	Total/NA	Water	7470A	873869
680-261276-5	AG21166	Total/NA	Water	7470A	873869
MB 680-873869/1-A	Method Blank	Total/NA	Water	7470A	873869
LCS 680-873869/2-A	Lab Control Sample	Total/NA	Water	7470A	873869
705-18469-M-2-D MS	Matrix Spike	Total/NA	Water	7470A	873869
705-18469-M-2-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	873869

Prep Batch: 874409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261276-1	AG21159	Total/NA	Water	7470A	
680-261276-4	AG21205	Total/NA	Water	7470A	
680-261276-6	AG21169	Total/NA	Water	7470A	
680-261276-7	AG21174	Total/NA	Water	7470A	
680-261276-8	AG21181	Total/NA	Water	7470A	
MB 680-874409/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-874409/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-261276-6 MS	AG21169	Total/NA	Water	7470A	
680-261276-6 MSD	AG21169	Total/NA	Water	7470A	

Analysis Batch: 874508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261276-1	AG21159	Total/NA	Water	7470A	874409
680-261276-4	AG21205	Total/NA	Water	7470A	874409
680-261276-6	AG21169	Total/NA	Water	7470A	874409
680-261276-7	AG21174	Total/NA	Water	7470A	874409
680-261276-8	AG21181	Total/NA	Water	7470A	874409
MB 680-874409/1-A	Method Blank	Total/NA	Water	7470A	874409
LCS 680-874409/2-A	Lab Control Sample	Total/NA	Water	7470A	874409
680-261276-6 MS	AG21169	Total/NA	Water	7470A	874409
680-261276-6 MSD	AG21169	Total/NA	Water	7470A	874409

Prep Batch: 874685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261276-6	AG21169	Total/NA	Water	7470A	
MB 680-874685/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-874685/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-270127-C-5-H MS	Matrix Spike	Total/NA	Water	7470A	
400-270127-C-5-I MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Metals

Analysis Batch: 874867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261276-6	AG21169	Total/NA	Water	7470A	874685
MB 680-874685/1-A	Method Blank	Total/NA	Water	7470A	874685
LCS 680-874685/2-A	Lab Control Sample	Total/NA	Water	7470A	874685
400-270127-C-5-H MS	Matrix Spike	Total/NA	Water	7470A	874685
400-270127-C-5-I MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	874685

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21159

Lab Sample ID: 680-261276-1

Date Collected: 01/16/25 09:54
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			874409	MG	EET SAV	02/04/25 14:09
Total/NA	Analysis	7470A		1	874508	BCB	EET SAV	02/04/25 19:20

Client Sample ID: AG21160

Lab Sample ID: 680-261276-2

Date Collected: 01/16/25 09:59
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			873869	MG	EET SAV	01/30/25 12:20
Total/NA	Analysis	7470A		1	874046	BCB	EET SAV	01/31/25 10:16

Client Sample ID: AG21164

Lab Sample ID: 680-261276-3

Date Collected: 01/16/25 14:08
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			873869	MG	EET SAV	01/30/25 12:20
Total/NA	Analysis	7470A		1	874046	BCB	EET SAV	01/31/25 10:30

Client Sample ID: AG21205

Lab Sample ID: 680-261276-4

Date Collected: 01/14/25 10:19
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			874409	MG	EET SAV	02/04/25 14:09
Total/NA	Analysis	7470A		1	874508	BCB	EET SAV	02/04/25 19:29

Client Sample ID: AG21166

Lab Sample ID: 680-261276-5

Date Collected: 01/14/25 11:54
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			873869	MG	EET SAV	01/30/25 12:20
Total/NA	Analysis	7470A		1	874046	BCB	EET SAV	01/31/25 10:11

Client Sample ID: AG21169

Lab Sample ID: 680-261276-6

Date Collected: 01/21/25 10:10
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			874409	MG	EET SAV	02/04/25 14:09
Total/NA	Analysis	7470A		1	874508	BCB	EET SAV	02/04/25 19:13
Total/NA	Prep	7470A			874685	MG	EET SAV	02/06/25 09:32
Total/NA	Analysis	7470A		1	874867	BCB	EET SAV	02/06/25 15:08

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01/36500

Job ID: 680-261276-1

Client Sample ID: AG21174

Lab Sample ID: 680-261276-7

Date Collected: 01/21/25 11:19
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			874409	MG	EET SAV	02/04/25 14:09
Total/NA	Analysis	7470A		1	874508	BCB	EET SAV	02/04/25 19:27

Client Sample ID: AG21181

Lab Sample ID: 680-261276-8

Date Collected: 01/21/25 12:17
Matrix: Water
Date Received: 01/29/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			874409	MG	EET SAV	02/04/25 14:09
Total/NA	Analysis	7470A		1	874508	BCB	EET SAV	02/04/25 19:32

Laboratory References:

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

Contract Lab Info: TA-SAV Contract Lab Due Date (Lab Only): 2 / 6 / 25 Send report to lcwillig@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G81 / 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	MERCURY			
AG21159	CAP-9	1/16/25	0954	MDG DCA	1	P	G	GW	2		X			
60	CAP-9 DUP		0959											
64	CAP-13		1408											
AG21205	FM-1	1/14/25	1019											
AG21166	CBW-1		1154											
AG21169	CCMAP-3	1/21/25	1010						1					
74	CCMAP-7		1119											
81	CCMAP-14		1217											

680-261276 Chain of Custody

Nutrients	Gypsum	Coal	Flyash		MISC.	
TOC	Wallboard	Short Prox.	Ammonia	Moisture	BTEX	Ba Be Ca Cd
DOC	AIM	% Moisture	LOI	Color	Naphthalene	Co Cr Cu Fe
TP/TPO4	TOC	Ash	% Carbon	Acidity	VOA/Semi	K Li Mg Mn
NH3-N	Total metals	Sulfur	Mineral Analysis	Dielectric Strength	Oil & Grease	Mo Na Ni Pb
F	Soluble	BTUs	Sieve	IFT	E. Coli	Sb Se Sn Sr
Cl	Purity (CaSO4)	Ultimate	% Moisture	Dissolved Gases	Total Coliform	Ti Tl V Zn
NO2	% Moisture	Volatile Matter		Used Oil	pH	Hg CrVI XRF scan
Br	Sulfites	CHN	NPDES	Flashpoint	Dissolved As	RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
NO3	pH	HGI	Oil & Grease	Metals (As, Cd, Cr, Ni, Pb, Hg)	Dissolved Fe	
SO4	Chlorides	Other Analysis:	As		Rad 226	
	Particle Size	Fineness	TSS	GOFER	Rad 228	
	Sulfur	Particulate Matter			PCB	
	USDA					

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
SLevy	35594	R. Caldwell	COURIER	1/29/25	0814
R. Caldwell					
		C. Munro		1/29/25	1100

Sample Receiving (Internal Use Only)

TEMP (°C): 11.1/11.1

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-261276-1

Login Number: 261276

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-261276-1
Project/Site: 125915/JM02.09.G01/36500

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-24 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/2/2025 9:53:09 AM

JOB DESCRIPTION

125915/jm02.09.g01.1/36110

JOB NUMBER

705-34169-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
7/2/2025 9:53:09 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Sample Summary 6
Method Summary 7
Definitions 8
Client Sample Results 9
QC Association 10
QC Sample Results 11
Chronicle 12
Chain of Custody 13
Receipt Checklists 14
Certification Summary 15
End Of Report 16

Job ID: 705-34169-1 — Eurofins Atlanta

Job Narrative
705-34169-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/19/2025 9:44 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.

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.09.g01.1/36110

Job ID: 705-34169-1

Client Sample ID: AG34931 **Lab Sample ID: 705-34169-1**

No Detections.

Client Sample ID: AG34932 **Lab Sample ID: 705-34169-2**

No Detections.

Client Sample ID: AG34913 **Lab Sample ID: 705-34169-3**

No Detections.

Client Sample ID: AG34914 **Lab Sample ID: 705-34169-4**

No Detections.

Client Sample ID: AG34915 **Lab Sample ID: 705-34169-5**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.09.g01.1/36110

Job ID: 705-34169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-34169-1	AG34931	Water	06/11/25 13:06	06/19/25 09:44
705-34169-2	AG34932	Water	06/11/25 12:00	06/19/25 09:44
705-34169-3	AG34913	Water	06/11/25 09:45	06/19/25 09:44
705-34169-4	AG34914	Water	06/11/25 10:48	06/19/25 09:44
705-34169-5	AG34915	Water	06/11/25 14:00	06/19/25 09:44

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.09.g01.1/36110

Job ID: 705-34169-1

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

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

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.09.g01.1/36110

Job ID: 705-34169-1

Client Sample ID: AG34931

Lab Sample ID: 705-34169-1
Matrix: Water
Date Collected: 06/11/25 13:06
Date Received: 06/19/25 09:44

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 19:36	1

Client Sample ID: AG34932

Lab Sample ID: 705-34169-2
Matrix: Water
Date Collected: 06/11/25 12:00
Date Received: 06/19/25 09:44

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 19:40	1

Client Sample ID: AG34913

Lab Sample ID: 705-34169-3
Matrix: Water
Date Collected: 06/11/25 09:45
Date Received: 06/19/25 09:44

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 19:44	1

Client Sample ID: AG34914

Lab Sample ID: 705-34169-4
Matrix: Water
Date Collected: 06/11/25 10:48
Date Received: 06/19/25 09:44

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 19:48	1

Client Sample ID: AG34915

Lab Sample ID: 705-34169-5
Matrix: Water
Date Collected: 06/11/25 14:00
Date Received: 06/19/25 09:44

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 19:52	1

Metals

Prep Batch: 64885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-34169-1	AG34931	Total/NA	Water	7470A	
705-34169-2	AG34932	Total/NA	Water	7470A	
705-34169-3	AG34913	Total/NA	Water	7470A	
705-34169-4	AG34914	Total/NA	Water	7470A	
705-34169-5	AG34915	Total/NA	Water	7470A	
MB 705-64885/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-64885/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-34375-A-4-B MS	Matrix Spike	Total/NA	Water	7470A	
705-34375-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 64963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-34169-1	AG34931	Total/NA	Water	7470A	64885
705-34169-2	AG34932	Total/NA	Water	7470A	64885
705-34169-3	AG34913	Total/NA	Water	7470A	64885
705-34169-4	AG34914	Total/NA	Water	7470A	64885
705-34169-5	AG34915	Total/NA	Water	7470A	64885
MB 705-64885/1-A	Method Blank	Total/NA	Water	7470A	64885
LCS 705-64885/2-A	Lab Control Sample	Total/NA	Water	7470A	64885
705-34375-A-4-B MS	Matrix Spike	Total/NA	Water	7470A	64885
705-34375-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	64885

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-64885/1-A
Matrix: Water
Analysis Batch: 64963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/30/25 12:10	06/30/25 19:01	1

Lab Sample ID: LCS 705-64885/2-A
Matrix: Water
Analysis Batch: 64963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003347		mg/L		84	80 - 120

Lab Sample ID: 705-34375-A-4-B MS
Matrix: Water
Analysis Batch: 64963

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 64885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.003369		mg/L		84	75 - 125

Lab Sample ID: 705-34375-A-4-C MSD
Matrix: Water
Analysis Batch: 64963

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 64885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.003229		mg/L		81	75 - 125	4	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.09.g01.1/36110

Job ID: 705-34169-1

Client Sample ID: AG34931

Lab Sample ID: 705-34169-1

Date Collected: 06/11/25 13:06
Matrix: Water
Date Received: 06/19/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64885	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64963	GR	EET ATL	06/30/25 19:36

Client Sample ID: AG34932

Lab Sample ID: 705-34169-2

Date Collected: 06/11/25 12:00
Matrix: Water
Date Received: 06/19/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64885	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64963	GR	EET ATL	06/30/25 19:40

Client Sample ID: AG34913

Lab Sample ID: 705-34169-3

Date Collected: 06/11/25 09:45
Matrix: Water
Date Received: 06/19/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64885	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64963	GR	EET ATL	06/30/25 19:44

Client Sample ID: AG34914

Lab Sample ID: 705-34169-4

Date Collected: 06/11/25 10:48
Matrix: Water
Date Received: 06/19/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64885	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64963	GR	EET ATL	06/30/25 19:48

Client Sample ID: AG34915

Lab Sample ID: 705-34169-5

Date Collected: 06/11/25 14:00
Matrix: Water
Date Received: 06/19/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			64885	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64963	GR	EET ATL	06/30/25 19:52

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Contract Lab Info: EUROFINS-ATL Contract Lab Due Date (Lab Only): 6 / 27 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

7/2/2025

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36110

Rerun request for any flagged Q: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG			
AG34931	CGYP-5	6/11/25	1306	AGP EA	1	P	G	GW	2	7470 RL<0.2 mg/L	X			
AG34932	CGYP-6		1200											
AG34913	CCMAP-3		0945											
AG34914	CCMGP-4		1048											
AG34915	CCMGP-5		1400											

705-34169 COC

Page 13 of 16

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

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

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
- BTUs
- **Ultimate**
- Volatile Matter
- CHN
- HGI

Other Analysis:
- Fineness
- Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Oil
- Trans. Oil Quality
- %Moisture
- Color
- Acidity
- Dissolved Gases
- Used Oil
- Flashpoint
- GOFER

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Metals (All)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	Pb
Sb	Se	Sn	Sr
Ti	Tl	V	Zn
Hg	CrVI	XRF scan	

RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	FED EX	—	6/18/25	1000
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		[signature]		6/19/25	9:44
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): 24.0 #1665

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-34169-1

Login Number: 34169
List Number: 1
Creator: Ceclu, Rodica

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
The cooler does not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-34169-1
Project/Site: 125915/jm02.09.g01.1/36110

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25
South Carolina	State	98016	06-30-25

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/3/2025 9:25:06 AM

JOB DESCRIPTION

125915/JM02.09.G011/36110

JOB NUMBER

705-48828-2

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
12/3/2025 9:25:06 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

Table of Contents

Cover Page 1
Table of Contents 3
Case Narrative 4
Detection Summary 5
Sample Summary 6
Method Summary 7
Definitions 8
Client Sample Results 9
QC Association 10
QC Sample Results 11
Chronicle 12
Receipt Checklists 13
Certification Summary 14
End Of Report 15

Job Narrative
705-48828-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/7/2025 9:41 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 19.2°C.

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Client Sample ID: AG50705 **Lab Sample ID: 705-48828-1**

No Detections.

Client Sample ID: AG50786 **Lab Sample ID: 705-48828-2**

No Detections.

Client Sample ID: AG50787 **Lab Sample ID: 705-48828-3**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
705-48828-1	AG50705	Water	11/05/25 12:23	11/07/25 09:41	South Carolina
705-48828-2	AG50786	Water	11/05/25 10:15	11/07/25 09:41	South Carolina
705-48828-3	AG50787	Water	11/05/25 10:20	11/07/25 09:41	South Carolina

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Method	Method Description	Protocol	Laboratory
7470A	Mercury (CVAA)	SW846	EET ATL
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

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

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Client: South Carolina Public Service Authority
Job ID: 705-48828-2
Project/Site: 125915/JM02.09.G011/36110

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

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Client Sample ID: AG50705 — **Lab Sample ID: 705-48828-1**
Date Collected: 11/05/25 12:23 — **Matrix: Water**
Date Received: 11/07/25 09:41

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		12/02/25 12:11	12/02/25 15:56	1

Client Sample ID: AG50786 — **Lab Sample ID: 705-48828-2**
Date Collected: 11/05/25 10:15 — **Matrix: Water**
Date Received: 11/07/25 09:41

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		12/02/25 12:11	12/02/25 17:59	1

Client Sample ID: AG50787 — **Lab Sample ID: 705-48828-3**
Date Collected: 11/05/25 10:20 — **Matrix: Water**
Date Received: 11/07/25 09:41

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		12/02/25 12:11	12/02/25 18:14	1

QC Association Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Metals

Prep Batch: 98557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-48828-1	AG50705	Total/NA	Water	7470A	
705-48828-2	AG50786	Total/NA	Water	7470A	
705-48828-3	AG50787	Total/NA	Water	7470A	
MB 705-98557/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-98557/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-48828-1 MS	AG50705	Total/NA	Water	7470A	
705-48828-1 MSD	AG50705	Total/NA	Water	7470A	

Analysis Batch: 98771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-48828-1	AG50705	Total/NA	Water	7470A	98557
705-48828-2	AG50786	Total/NA	Water	7470A	98557
705-48828-3	AG50787	Total/NA	Water	7470A	98557
MB 705-98557/1-A	Method Blank	Total/NA	Water	7470A	98557
LCS 705-98557/2-A	Lab Control Sample	Total/NA	Water	7470A	98557
705-48828-1 MS	AG50705	Total/NA	Water	7470A	98557
705-48828-1 MSD	AG50705	Total/NA	Water	7470A	98557

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-98557/1-A
Matrix: Water
Analysis Batch: 98771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		12/02/25 12:11	12/02/25 15:48	1

Lab Sample ID: LCS 705-98557/2-A
Matrix: Water
Analysis Batch: 98771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003890		mg/L		97	80 - 120

Lab Sample ID: 705-48828-1 MS
Matrix: Water
Analysis Batch: 98771

Client Sample ID: AG50705
Prep Type: Total/NA
Prep Batch: 98557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004067		mg/L		102	75 - 125

Lab Sample ID: 705-48828-1 MSD
Matrix: Water
Analysis Batch: 98771

Client Sample ID: AG50705
Prep Type: Total/NA
Prep Batch: 98557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.004075		mg/L		102	75 - 125	0	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36110

Job ID: 705-48828-2

Client Sample ID: AG50705

Lab Sample ID: 705-48828-1

Date Collected: 11/05/25 12:23
Matrix: Water
Date Received: 11/07/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			98557	GR	EET ATL	12/02/25 12:11
Total/NA	Analysis	7470A		1	98771	GR	EET ATL	12/02/25 15:56

Client Sample ID: AG50786

Lab Sample ID: 705-48828-2

Date Collected: 11/05/25 10:15
Matrix: Water
Date Received: 11/07/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			98557	GR	EET ATL	12/02/25 12:11
Total/NA	Analysis	7470A		1	98771	GR	EET ATL	12/02/25 17:59

Client Sample ID: AG50787

Lab Sample ID: 705-48828-3

Date Collected: 11/05/25 10:20
Matrix: Water
Date Received: 11/07/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			98557	GR	EET ATL	12/02/25 12:11
Total/NA	Analysis	7470A		1	98771	GR	EET ATL	12/02/25 18:14

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-48828-2

Login Number: 48828
List Number: 1
Creator: Sims, Christion

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does 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 present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-48828-2
Project/Site: 125915/JM02.09.G011/36110

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-26
South Carolina	State	98016	06-30-26

END OF REPORT

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

June 12, 2025

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

Re: ABS Lab Analytical
Work Order: 725156

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 20, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 125915/JM02.8.G013/36110
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: 725156 GEL Work Order: 725156

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

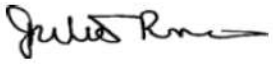
** Analyte is a surrogate compound

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: June 12, 2025

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:	AG33008	Project:	SOOP00119
Sample ID:	725156001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-MAY-25 10:28		
Receive Date:	20-MAY-25		
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		1.08	+/-0.562	0.829	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.10	+/-0.729	0.771	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.9	(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: June 12, 2025

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:	AG33009	Project:	SOOP00119
Sample ID:	725156002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-MAY-25 11:52		
Receive Date:	20-MAY-25		
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		1.87	+/-0.486	0.496	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.41	+/-0.684	0.647	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.3	(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: June 12, 2025

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:	AG33010	Project:	SOOP00119
Sample ID:	725156003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-MAY-25 11:57		
Receive Date:	20-MAY-25		
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		1.84	+/-0.583	0.594	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.92	+/-1.30	0.646	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: June 12, 2025

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:	AG33011	Project:	SOOP00119
Sample ID:	725156004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-MAY-25 13:00		
Receive Date:	20-MAY-25		
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		0.835	+/-0.451	0.641	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.11	+/-0.590	0.521	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: June 12, 2025

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:	AG33005	Project:	SOOP00119
Sample ID:	725156005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	13-MAY-25 10:39		
Receive Date:	20-MAY-25		
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		2.25	+/-0.719	0.885	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.80	+/-0.960	1.05	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.3	(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: June 12, 2025

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:	AG33006	Project:	SOOP00119
Sample ID:	725156006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	13-MAY-25 11:43		
Receive Date:	20-MAY-25		
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	0.728	+/-0.528	0.837	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.713	+/-0.565	0.791	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: June 12, 2025

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:	AG33007	Project:	SOOP00119
Sample ID:	725156007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	13-MAY-25 11:48		
Receive Date:	20-MAY-25		
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	0.620	+/-0.560	0.914	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.839	+/-0.559	0.634	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			59.8	(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: June 12, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **725156**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2800725										
QC1206112521 725156001 DUP										
Radium-228		1.08		1.10	pCi/L	1.68		(0% - 100%)	JE1	06/10/25 12:27
	Uncertainty	+/-0.562		+/-0.500						
QC1206112522 LCS										
Radium-228	27.9			31.6	pCi/L		113	(75%-125%)		06/10/25 12:27
	Uncertainty			+/-1.83						
QC1206112520 MB										
Radium-228			U	0.352	pCi/L					06/10/25 12:27
	Uncertainty			+/-0.368						
Rad Ra-226										
Batch 2800929										
QC1206113064 725156002 DUP										
Radium-226		1.41		1.42	pCi/L	0.625		(0% - 100%)	RS2	06/09/25 08:51
	Uncertainty	+/-0.684		+/-0.644						
QC1206113066 LCS										
Radium-226	54.8			64.0	pCi/L		117	(75%-125%)		06/09/25 08:51
	Uncertainty			+/-4.76						
QC1206113063 MB										
Radium-226			U	0.479	pCi/L					06/09/25 08:51
	Uncertainty			+/-0.600						
QC1206113065 725156002 MS										
Radium-226	136	1.41		155	pCi/L		113	(75%-125%)		06/09/25 08:51
	Uncertainty	+/-0.684		+/-15.1						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **725156**

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2800725

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

GEL Sample ID#	Client Sample Identification
725156001	AG33008
725156002	AG33009
725156003	AG33010
725156004	AG33011
725156005	AG33005
725156006	AG33006
725156007	AG33007
1206112520	Method Blank (MB)
1206112521	725156001(AG33008) Sample Duplicate (DUP)
1206112522	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: 2800929

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

GEL Sample ID#	Client Sample Identification
725156001	AG33008
725156002	AG33009
725156003	AG33010
725156004	AG33011
725156005	AG33005
725156006	AG33006
725156007	AG33007

1206113063	Method Blank (MB)
1206113064	725156002(AG33009) Sample Duplicate (DUP)
1206113065	725156002(AG33009) Matrix Spike (MS)
1206113066	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206113065 (AG33009MS) Aliquot was reduced due to limited sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 6 / 18 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody 725156

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.GØ1.3 / 36110

Rerun request for any flagged Q: (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			
AG33008	WAP-30	5/14/25	1028	ATH AGP	2	P	G	GW	2		X			
09	WAP-2R		1152											
10	WAP-2R DUP		1157											
11	WAP-28R		1300											
AG33005	CGYP-5	5/13/25	1039											
06	CGYP-6		1143											
07	CGYP-6 DUP		1148											

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

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

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☒ Rad 226
- ☒ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
SLevy	35594	[signature]	GEL	5/20/25	1010
[signature]	GEL	[signature]	GEL	5-20-25	1530

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc. (describe in comment section)

Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 725156	GEL PM: JR
Received By: CLM	Date Received at GEL: 5/20/25	

Courier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
N/A	23	✓			

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 <6 °C)?			✓	Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to (making numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials [signature] Date 5/21/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 12 June 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

July 09, 2025

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

Re: ABS Lab Analytical
Work Order: 729220

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 17, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 729220 GEL Work Order: 729220

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

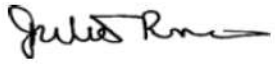
** Analyte is a surrogate compound

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: July 9, 2025

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:	AG34941	Project:	SOOP00119
Sample ID:	729220001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JUN-25 09:53		
Receive Date:	17-JUN-25		
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	0.318	+/-0.356	0.596	1.00	pCi/L			JE1	07/08/25	0835	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.849	+/-0.426	0.382	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 9, 2025

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:	AG34938	Project:	SOOP00119
Sample ID:	729220002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JUN-25 12:10		
Receive Date:	17-JUN-25		
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	0.849	+/-0.551	0.854	1.00	pCi/L			JE1	07/08/25	0835	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.885	+/-0.421	0.494	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.6	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 9, 2025

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:	AG34935	Project:	SOOP00119
Sample ID:	729220003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JUN-25 13:14		
Receive Date:	17-JUN-25		
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		0.915	+/-0.468	0.673	1.00	pCi/L			JE1	07/08/25	0835	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	-0.198	+/-0.238	0.665	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 9, 2025

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:	AG34939	Project:	SOOP00119
Sample ID:	729220004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JUN-25 14:17		
Receive Date:	17-JUN-25		
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	0.495	+/-0.361	0.552	1.00	pCi/L			JE1	07/08/25	0835	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.294	+/-0.228	0.281	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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
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 9, 2025

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:	AG34940	Project:	SOOP00119
Sample ID:	729220005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JUN-25 14:22		
Receive Date:	17-JUN-25		
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		0.923	+/-0.468	0.662	1.00	pCi/L			JE1	07/08/25	0835	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.243	+/-0.317	0.542	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 9, 2025

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:	AG34912	Project:	SOOP00119
Sample ID:	729220006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	10-JUN-25 16:02		
Receive Date:	17-JUN-25		
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	0.349	+/-0.416	0.702	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.48	+/-0.621	0.365	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.2	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 9, 2025

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:	AG34936	Project:	SOOP00119
Sample ID:	729220007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	09-JUN-25 16:33		
Receive Date:	17-JUN-25		
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	0.200	+/-0.273	0.468	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.799	+/-0.414	0.491	1.00	pCi/L			RS2	07/03/25	1049	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 9, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **729220**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2815379										
QC1206144183 729220001 DUP										
Radium-228	U	0.318	U	0.348	pCi/L	N/A		N/A	JE1	07/08/25 08:33
	Uncertainty	+/-0.356		+/-0.358						
QC1206144184 LCS										
Radium-228	27.6			21.4	pCi/L		77.5	(75%-125%)		07/08/25 10:20
	Uncertainty			+/-1.49						
QC1206144182 MB										
Radium-228			U	0.219	pCi/L					07/08/25 10:20
	Uncertainty			+/-0.362						
Rad Ra-226										
Batch 2817558										
QC1206148449 729220002 DUP										
Radium-226		0.885		1.12	pCi/L	23.2		(0% - 100%)	RS2	07/03/25 12:24
	Uncertainty	+/-0.421		+/-0.425						
QC1206148451 LCS										
Radium-226	27.2			27.9	pCi/L		102	(75%-125%)		07/03/25 13:34
	Uncertainty			+/-2.33						
QC1206148448 MB										
Radium-226			U	0.249	pCi/L					07/03/25 12:24
	Uncertainty			+/-0.230						
QC1206148450 729220002 MS										
Radium-226	129	0.885		149	pCi/L		115	(75%-125%)		07/03/25 14:40
	Uncertainty	+/-0.421		+/-11.8						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **729220**

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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 #: 729220

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2815379

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

GEL Sample ID#	Client Sample Identification
729220001	AG34941
729220002	AG34938
729220003	AG34935
729220004	AG34939
729220005	AG34940
729220006	AG34912
729220007	AG34936
1206144182	Method Blank (MB)
1206144183	729220001(AG34941) Sample Duplicate (DUP)
1206144184	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Sample 1206144184 (LCS) was recounted due to low recovery. The recount is reported.
Sample 1206144182 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2817558

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

GEL Sample ID#	Client Sample Identification
729220001	AG34941
729220002	AG34938
729220003	AG34935
729220004	AG34939
729220005	AG34940

729220006	AG34912
729220007	AG34936
1206148448	Method Blank (MB)
1206148449	729220002(AG34938) Sample Duplicate (DUP)
1206148450	729220002(AG34938) Matrix Spike (MS)
1206148451	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Sample 1206148450 (AG34938MS) was recounted due to high recovery. The recount is reported.

Miscellaneous Information

Additional Comments
The matrix spike, 1206148450 (AG34938MS), 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.

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7/16/25 Send report to lcwlflla@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody 729220

RAD

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36110

Rerun request for any flagged C (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			
AG34941	POZ-8	6/10/25	0953	AGP EA	2	P	G	GW	2		2			
AG34938	POZ-6		1210											
AG34935	POZ-3		1314											
AG34939	POZ-7		1417											
AG34940	POZ-7 DUP		1422											
AG34912	CCMGP-2	6/10/25	1602											
AG34936	POZ-4	6/9/25	1633											

Nutrients
- F
- Cl
- PO_4
- NH_3-N
- TKN
- NO_2
- NO_3
- SO_4

Gypsum
- Wallboard
- Ash
- pH
- Total Metals
- Soluble Metals
- Trace Elements
- Moisture
- Sulfur
- Chlorides
- Particle Size
- USDA

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
- BTUs
- **Ultimate**
- Volatile Matter
- CHN
- HGI

Other Analysis:
- Fineness
- Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Oil
- Trans. Oil Quality
- % Moisture
- Color
- Acidity
- Interfacial Tension
- PCB
- Dissolved Gases
- Used Oil
- Flashpoint
- Metals (As, Cd, Cr, Pb, Hg, Se, Ag)
- Pour Point

OTHER

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Metals (All)
- Al
- Sb
- As
- Ba
- Be
- B
- Cd
- Ca
- Co
- Cr
- Cu
- Fe
- Pb
- Li
- Mg
- Mn
- Mo
- Ni
- Hg
- K
- Ag
- Na
- Sr
- Sn
- Tl
- V
- Zn
- W
- Zr
- Ti
- Si
- TOC
- TKN
- TOX
- TPH
- Cl
- F
- SO_4
- NO_3
- NO_2
- PO_4
- Br
- Alkalinity
- Hardness
- TDS
- TSS
- Turbidity
- Color
- Odor
- Conductivity
- Phenols
- Cyanide
- Sulfide
- Ammonia
- Oil & Grease
- Total Coliform
- E. Coli
- Enterococci
- Fecal Coliform
- Rad 226
- Rad 228
- Gross Alpha
- Gross Beta
- Uranium
- Thorium
- Radium
- Strontium
- Tritium
- Carbon-14
- Iodine-129
- Technetium-99
- Plutonium
- Americium
- Curium
- Neptunium
- Uranium-233/234
- Uranium-235
- Uranium-238
- Thorium-228
- Thorium-230
- Thorium-232
- Radium-226
- Radium-228
- Lead-210
- Polonium-210
- Actinium-227
- Protactinium-231
- Cesium-137
- Potassium-40
- Cobalt-60
- Europium-152
- Europium-154
- Europium-155
- Manganese-54
- Zinc-65
- Sodium-22
- Beryllium-7
- Iron-55
- Nickel-63
- Strontium-90
- Technetium-99
- Iodine-129
- Plutonium-238
- Plutonium-239/240
- Americium-241
- Curium-242
- Curium-243/244
- Neptunium-237

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 729220	GEL PM:
Received By: KE	Date Received at GEL: 6/17/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services (Courier) Client Other:

IR Temp gun # IR1-24 Daily Calibration Performed? (Y)N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
	23	✓			

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) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?		✓		Preservation Method: Wet Ice Ice Packs Dry Ice (None) Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials ZW Date 6/18/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 09 July 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

March 10, 2025

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

Re: ABS Lab Analytical
Work Order: 708054

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 07, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 708054 GEL Work Order: 708054

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

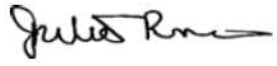
J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21180	Project:	SOOP00119
Sample ID:	708054001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 09:30		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.102	0.0330	0.100	mg/L		1	TXT1	02/10/25	1246	2747296	1
Chloride		738	13.4	40.0	mg/L		200	TXT1	02/11/25	1014	2747296	2
Sulfate		784	26.6	80.0	mg/L		200					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21179	Project:	SOOP00119
Sample ID:	708054002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 10:33		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0376	0.0330	0.100	mg/L		1	TXT1	02/10/25	1421	2747296	1
Sulfate		1.93	0.133	0.400	mg/L		1					
Chloride		10.6	0.134	0.400	mg/L		2	TXT1	02/11/25	1149	2747296	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21170	Project:	SOOP00119
Sample ID:	708054003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 11:54		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.104	0.0330	0.100	mg/L		1	TXT1	02/10/25	1557	2747296	1
Sulfate		2.48	0.133	0.400	mg/L		1					
Chloride		41.0	0.670	2.00	mg/L		10	TXT1	02/11/25	1325	2747296	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21171	Project:	SOOP00119
Sample ID:	708054004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 11:59		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.104	0.0330	0.100	mg/L		1	TXT1	02/10/25	1629	2747296	1
Sulfate		2.45	0.133	0.400	mg/L		1					
Chloride		39.6	0.670	2.00	mg/L		10	TXT1	02/11/25	1357	2747296	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21172	Project:	SOOP00119
Sample ID:	708054005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 13:51		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.171	0.0330	0.100	mg/L		1	TXT1	02/10/25	1836	2747296	1
Sulfate		11.9	0.133	0.400	mg/L		1					
Chloride		18.4	0.335	1.00	mg/L		5	TXT1	02/11/25	1429	2747296	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21183	Project:	SOOP00119
Sample ID:	708054006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-FEB-25 09:13		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0596	0.0330	0.100	mg/L		1	TXT1	02/10/25	1908	2747296	1
Chloride		177	3.35	10.0	mg/L		50	TXT1	02/11/25	1501	2747296	2
Sulfate		426	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

QC Summary

Report Date: March 10, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **708054**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2747296												
QC1206000007 708054001 DUP												
Chloride			738		738	mg/L	0.0515			(0%-20%)	TXT1	02/11/25 10:46
Fluoride			0.102		0.101	mg/L	1.38	^		(+/-0.100)		02/10/25 13:18
Sulfate			784		788	mg/L	0.58			(0%-20%)		02/11/25 10:46
QC1206000009 708054002 DUP												
Chloride			10.6		10.6	mg/L	0.0245			(0%-20%)		02/11/25 12:21
Fluoride		J	0.0376	J	0.0389	mg/L	3.4	^		(+/-0.100)		02/10/25 14:53
Sulfate			1.93		1.92	mg/L	0.177	^		(+/-0.400)		
QC1206000006 LCS												
Chloride	5.00				4.66	mg/L			93.2	(90%-110%)		02/10/25 12:14
Fluoride	2.50				2.47	mg/L			98.7	(90%-110%)		
Sulfate	10.0				9.55	mg/L			95.5	(90%-110%)		
QC1206000005 MB												
Chloride				U	0.0670	mg/L						02/10/25 11:07
Fluoride				U	0.0330	mg/L						
Sulfate				U	0.133	mg/L						

QC Summary

Workorder: **708054**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2747296										
QC1206000008 708054001 PS										
Chloride	5.00	3.69		8.67	mg/L		99.5	(90%-110%)	TXT1	02/11/25 11:18
Fluoride	2.50	0.102		2.48	mg/L		95.2	(90%-110%)		02/10/25 13:49
Sulfate	10.0	3.92		13.1	mg/L		92.3	(90%-110%)		02/11/25 11:18
QC1206000010 708054002 PS										
Chloride	5.00	5.30		10.5	mg/L		105	(90%-110%)		02/11/25 12:53
Fluoride	2.50	0.0376	J	2.65	mg/L		104	(90%-110%)		02/10/25 15:25
Sulfate	10.0	1.93		11.5	mg/L		96.2	(90%-110%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

QC Summary

Workorder: **708054**

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

N1 See case narrative

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

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.

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21180	Project:	SOOP00119
Sample ID:	708054001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 09:30		
Receive Date:	07-FEB-25		
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	0.0723	+/-0.476	0.924	1.00	pCi/L			DH1	03/10/25	1113	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.832	+/-0.342	0.353	1.00	pCi/L			RS2	03/09/25	0831	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.6	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21179	Project:	SOOP00119
Sample ID:	708054002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 10:33		
Receive Date:	07-FEB-25		
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		0.689	+/-0.430	0.645	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.641	+/-0.331	0.373	1.00	pCi/L			RS2	03/09/25	0831	2747309	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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: March 10, 2025

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:	AG21170	Project:	SOOP00119
Sample ID:	708054003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 11:54		
Receive Date:	07-FEB-25		
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		0.714	+/-0.429	0.633	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.950	+/-0.319	0.202	1.00	pCi/L			RS2	03/09/25	0831	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.9	(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 10, 2025

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:	AG21171	Project:	SOOP00119
Sample ID:	708054004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 11:59		
Receive Date:	07-FEB-25		
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		1.43	+/-0.511	0.649	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.741	+/-0.295	0.218	1.00	pCi/L			RS2	03/09/25	0831	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.6	(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 10, 2025

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:	AG21172	Project:	SOOP00119
Sample ID:	708054005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 13:51		
Receive Date:	07-FEB-25		
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		0.784	+/-0.439	0.644	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.603	+/-0.323	0.390	1.00	pCi/L			RS2	03/09/25	0831	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.9	(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 10, 2025

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:	AG21183	Project:	SOOP00119
Sample ID:	708054006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-FEB-25 09:13		
Receive Date:	07-FEB-25		
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		1.86	+/-0.543	0.594	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.489	+/-0.317	0.440	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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: March 10, 2025

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

Workorder: **708054**

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow											
Batch 2747711											
QC1206000960 708054001 DUP											
Radium-228		U	0.0723		1.09	pCi/L	175 *		(0% - 100%)	DH1	03/10/25 11:14
		Uncertainty	+/-0.476		+/-0.591						
QC1206000961 LCS											
Radium-228		28.5			24.1	pCi/L		84.5	(75%-125%)		03/10/25 11:13
		Uncertainty			+/-1.45						
QC1206000959 MB											
Radium-228				U	0.530	pCi/L					03/10/25 11:13
		Uncertainty			+/-0.390						
Rad Ra-226											
Batch 2747309											
QC1206000048 708054001 DUP											
Radium-226			0.832		0.676	pCi/L	20.7		(0% - 100%)	RS2	03/09/25 09:36
		Uncertainty	+/-0.342		+/-0.270						
QC1206000050 LCS											
Radium-226		27.2			21.4	pCi/L		78.6	(75%-125%)		03/09/25 10:08
		Uncertainty			+/-1.52						
QC1206000047 MB											
Radium-226				U	0.293	pCi/L					03/09/25 09:36
		Uncertainty			+/-0.319						
QC1206000049 708054001 MS											
Radium-226		134	0.832		102	pCi/L		75.2	(75%-125%)		03/09/25 09:36
		Uncertainty	+/-0.342		+/-7.15						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **708054**

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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 #: 708054

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2747296

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

GEL Sample ID#	Client Sample Identification
708054001	AG21180
708054002	AG21179
708054003	AG21170
708054004	AG21171
708054005	AG21172
708054006	AG21183
1206000005	Method Blank (MB)
1206000006	Laboratory Control Sample (LCS)
1206000007	708054001(AG21180) Sample Duplicate (DUP)
1206000008	708054001(AG21180) Post Spike (PS)
1206000009	708054002(AG21179) Sample Duplicate (DUP)
1206000010	708054002(AG21179) 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 1206000007 (AG21180DUP), 1206000008 (AG21180PS), 1206000009 (AG21179DUP), 1206000010 (AG21179PS), 708054001 (AG21180), 708054002 (AG21179), 708054003 (AG21170), 708054004 (AG21171), 708054005 (AG21172) and 708054006 (AG21183) 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	708054					
	001	002	003	004	005	006
Chloride	200X	2X	10X	10X	5X	50X
Sulfate	200X	1X	1X	1X	1X	50X

Miscellaneous Information

Manual Integrations

Samples 1206000009 (AG21179DUP), 708054002 (AG21179), 708054003 (AG21170), 708054004 (AG21171) and 708054005 (AG21172) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2747711

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

GEL Sample ID#	Client Sample Identification
708054001	AG21180
708054002	AG21179
708054003	AG21170
708054004	AG21171
708054005	AG21172
708054006	AG21183
1206000959	Method Blank (MB)
1206000960	708054001(AG21180) Sample Duplicate (DUP)
1206000961	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206000960 (AG21180DUP) and 708054001 (AG21180) Aliquots were reduced due to limited sample volume.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1206000960 (AG21180DUP)	Radium-228	RPD 175* (0.0%-100.0%) RER 2.47 (0-3)

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

Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2747309

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

GEL Sample ID#	Client Sample Identification
708054001	AG21180
708054002	AG21179
708054003	AG21170
708054004	AG21171
708054005	AG21172
708054006	AG21183
1206000047	Method Blank (MB)
1206000048	708054001(AG21180) Sample Duplicate (DUP)
1206000049	708054001(AG21180) Matrix Spike (MS)
1206000050	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, 1206000049 (AG21180MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

RAD- 3/7/25 708054

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 14 / 25 Send report to lcwillig@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG21180	CCMAP-13	2/3/25	0930	ATH DCA	3	P	G	GW	2/1		2	1		
79	CCMAP-12		1033											
70	CCMAP-4		1154											
71	CCMAP-4 DUP		1159											
72	CCMAP-5		1351											
AG21183	CCMGP-2	2/6/25	0913	ATH DCA	1	P	G	GW	2		1	1		

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

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

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- Ultimate
  - ☐ Volatile Matter
  - ☐ CHN
  - ☐ HGI
- Other Analysis:
  - ☐ Fineness
  - ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☑ Rad 226
- ☑ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	2/7/25	1022
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
				2.7.25	1637
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 708054	GEL PM:
Received By: QG	Date Received at GEL: 2/7/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radinchem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	0°C				
cooler 2	0°C				
cooler 3	12°C				
cooler 4	16°C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/ mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) missing one set of TB
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
container count is 1 for AG2 1183 but received three. also the same for AG2 1184.

PM (or PMA) review: Initials MR Date 2/10/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 10 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 10, 2025

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

Re: ABS Lab Analytical
Work Order: 708056

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 07, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 708056 GEL Work Order: 708056

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

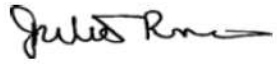
J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21190	Project:	SOOP00119
Sample ID:	708056001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 14:44		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		1.18	0.0330	0.100	mg/L		1	TXT1	02/10/25	1940	2747296	1
Chloride		502	6.70	20.0	mg/L		100	TXT1	02/11/25	1636	2747296	2
Sulfate		545	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21193	Project:	SOOP00119
Sample ID:	708056002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 13:28		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		1.97	0.0330	0.100	mg/L		1	TXT1	02/10/25	2012	2747296	1
Chloride		834	13.4	40.0	mg/L		200	TXT1	02/11/25	1708	2747296	2
Sulfate		1070	26.6	80.0	mg/L		200					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21194	Project:	SOOP00119
Sample ID:	708056003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 12:33		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		1.46	0.0330	0.100	mg/L		1	TXT1	02/10/25	2044	2747296	1
Chloride		257	3.35	10.0	mg/L		50	TXT1	02/11/25	1740	2747296	2
Sulfate		585	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21195	Project:	SOOP00119
Sample ID:	708056004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 11:32		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.415	0.0330	0.100	mg/L		1	TXT1	02/10/25	2115	2747296	1
Chloride		117	3.35	10.0	mg/L		50	TXT1	02/11/25	1812	2747296	2
Sulfate		427	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21196	Project:	SOOP00119
Sample ID:	708056005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 10:36		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.128	0.0330	0.100	mg/L		1	TXT1	02/10/25	2147	2747296	1
Chloride		136	3.35	10.0	mg/L		50	TXT1	02/11/25	1844	2747296	2
Sulfate		533	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21186	Project:	SOOP00119
Sample ID:	708056006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 15:09		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0647	0.0330	0.100	mg/L		1	TXT1	02/10/25	2219	2747296	1
Sulfate		2.49	0.133	0.400	mg/L		1					
Chloride		26.2	0.335	1.00	mg/L		5	TXT1	02/11/25	1915	2747296	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: March 10, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **708056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2747296										
QC1206000007 708054001 DUP										
Chloride		738		738	mg/L	0.0515		(0%-20%)	TXT1	02/11/25 10:46
Fluoride		0.102		0.101	mg/L	1.38	^	(+/-0.100)		02/10/25 13:18
Sulfate		784		788	mg/L	0.58		(0%-20%)		02/11/25 10:46
QC1206000009 708054002 DUP										
Chloride		10.6		10.6	mg/L	0.0245		(0%-20%)		02/11/25 12:21
Fluoride	J	0.0376	J	0.0389	mg/L	3.4	^	(+/-0.100)		02/10/25 14:53
Sulfate		1.93		1.92	mg/L	0.177	^	(+/-0.400)		
QC1206000006 LCS										
Chloride	5.00			4.66	mg/L		93.2	(90%-110%)		02/10/25 12:14
Fluoride	2.50			2.47	mg/L		98.7	(90%-110%)		
Sulfate	10.0			9.55	mg/L		95.5	(90%-110%)		
QC1206000005 MB										
Chloride			U	0.0670	mg/L					02/10/25 11:07
Fluoride			U	0.0330	mg/L					
Sulfate			U	0.133	mg/L					

QC Summary

Workorder: **708056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2747296										
QC1206000008 708054001 PS										
Chloride	5.00	3.69		8.67	mg/L		99.5	(90%-110%)	TXT1	02/11/25 11:18
Fluoride	2.50	0.102		2.48	mg/L		95.2	(90%-110%)		02/10/25 13:49
Sulfate	10.0	3.92		13.1	mg/L		92.3	(90%-110%)		02/11/25 11:18
QC1206000010 708054002 PS										
Chloride	5.00	5.30		10.5	mg/L		105	(90%-110%)		02/11/25 12:53
Fluoride	2.50	0.0376	J	2.65	mg/L		104	(90%-110%)		02/10/25 15:25
Sulfate	10.0	1.93		11.5	mg/L		96.2	(90%-110%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

QC Summary

Workorder: **708056**

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

N1 See case narrative

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

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.

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21190	Project:	SOOP00119
Sample ID:	708056001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 14:44		
Receive Date:	07-FEB-25		
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		2.30	+/-0.581	0.589	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.08	+/-0.339	0.242	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21193	Project:	SOOP00119
Sample ID:	708056002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 13:28		
Receive Date:	07-FEB-25		
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		3.66	+/-0.683	0.662	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.09	+/-0.388	0.260	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.7	(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 10, 2025

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:	AG21194	Project:	SOOP00119
Sample ID:	708056003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 12:33		
Receive Date:	07-FEB-25		
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		2.36	+/-0.591	0.583	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.660	+/-0.288	0.230	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21195	Project:	SOOP00119
Sample ID:	708056004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 11:32		
Receive Date:	07-FEB-25		
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		0.746	+/-0.430	0.633	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.734	+/-0.328	0.267	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.7	(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 10, 2025

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:	AG21196	Project:	SOOP00119
Sample ID:	708056005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-FEB-25 10:36		
Receive Date:	07-FEB-25		
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		0.994	+/-0.459	0.643	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.835	+/-0.307	0.250	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.9	(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 10, 2025

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:	AG21186	Project:	SOOP00119
Sample ID:	708056006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-FEB-25 15:09		
Receive Date:	07-FEB-25		
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	0.507	+/-0.386	0.596	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.751	+/-0.323	0.342	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.1	(15%-125%)

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: March 10, 2025

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

Workorder: **708056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2747711										
QC1206000960 708054001 DUP										
Radium-228	U	0.0723		1.09	pCi/L	175 *		(0% - 100%)	DH1	03/10/25 11:14
	Uncertainty	+/-0.476		+/-0.591						
QC1206000961 LCS										
Radium-228	28.5			24.1	pCi/L		84.5	(75%-125%)		03/10/25 11:13
	Uncertainty			+/-1.45						
QC1206000959 MB										
Radium-228			U	0.530	pCi/L					03/10/25 11:13
	Uncertainty			+/-0.390						
Rad Ra-226										
Batch 2747309										
QC1206000048 708054001 DUP										
Radium-226		0.832		0.676	pCi/L	20.7		(0% - 100%)	RS2	03/09/25 09:36
	Uncertainty	+/-0.342		+/-0.270						
QC1206000050 LCS										
Radium-226	27.2			21.4	pCi/L		78.6	(75%-125%)		03/09/25 10:08
	Uncertainty			+/-1.52						
QC1206000047 MB										
Radium-226			U	0.293	pCi/L					03/09/25 09:36
	Uncertainty			+/-0.319						
QC1206000049 708054001 MS										
Radium-226	134	0.832		102	pCi/L		75.2	(75%-125%)		03/09/25 09:36
	Uncertainty	+/-0.342		+/-7.15						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **708056**

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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 #: 708056

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2747296

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

GEL Sample ID#	Client Sample Identification
708056001	AG21190
708056002	AG21193
708056003	AG21194
708056004	AG21195
708056005	AG21196
708056006	AG21186
1206000005	Method Blank (MB)
1206000006	Laboratory Control Sample (LCS)
1206000007	708054001(AG21180) Sample Duplicate (DUP)
1206000008	708054001(AG21180) Post Spike (PS)
1206000009	708054002(AG21179) Sample Duplicate (DUP)
1206000010	708054002(AG21179) 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 1206000007 (AG21180DUP), 1206000008 (AG21180PS), 1206000009 (AG21179DUP), 1206000010 (AG21179PS), 708056001 (AG21190), 708056002 (AG21193), 708056003 (AG21194), 708056004 (AG21195), 708056005 (AG21196) and 708056006 (AG21186) 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	708056					
	001	002	003	004	005	006
Chloride	100X	200X	50X	50X	50X	5X
Sulfate	100X	200X	50X	50X	50X	1X

Miscellaneous Information

Manual Integrations

Samples 1206000009 (AG21179DUP) and 708056006 (AG21186) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2747711

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

GEL Sample ID#	Client Sample Identification
708056001	AG21190
708056002	AG21193
708056003	AG21194
708056004	AG21195
708056005	AG21196
708056006	AG21186
1206000959	Method Blank (MB)
1206000960	708054001(AG21180) Sample Duplicate (DUP)
1206000961	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206000960 (AG21180DUP) Aliquot was reduced due to limited sample volume.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1206000960 (AG21180DUP)	Radium-228	RPD 175* (0.0%-100.0%) RER 2.47 (0-3)

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2747309

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

GEL Sample ID#	Client Sample Identification
708056001	AG21190
708056002	AG21193
708056003	AG21194
708056004	AG21195
708056005	AG21196
708056006	AG21186
1206000047	Method Blank (MB)
1206000048	708054001(AG21180) Sample Duplicate (DUP)
1206000049	708054001(AG21180) Matrix Spike (MS)
1206000050	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, 1206000049 (AG21180MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

RAD - 3/7/25 708056

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 14 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.GG1.1 / 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	F, Cl, SO4		
AG21190	CGYP-1	2/5/25	1444	MDG DCA	3	P	G	GW	2/1		2	1		
93	CGYP-3	"	1328	"	"	"	"	"	"		"	"		
94	CGYP-4	"	1233	"	"	"	"	"	"		"	"		
95	CGYP-5	"	1132	"	"	"	"	"	"		"	"		
96	CGYP-6	"	1036	"	"	"	"	"	"		"	"		
AG21186	CGWGP-5	2/3/25	1509	ATH DCA	1	1	1	1	1		1	1		

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

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

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
  - ☐ Volatile Matter
  - ☐ CHN
  - ☐ HGI
- **Other Analysis:**
  - ☐ Fineness
  - ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☒ Rad 226
- ☒ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36451		GEL	2/7/25	1022
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL			2-7-25	1637
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

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 codes: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 708056	GEL PM:
Received By: QG	Date Received at GEL: 2/7/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	0°C				
cooler 2	0°C				
cooler 3	12°C				
cooler 4	16°C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) missing one set of TB
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
container count is 1 for AG2 1183 bA received three. also the sare for AG2 1184.

PM (or PMA) review: Initials MR Date 2/10/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 10 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 10, 2025

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

Re: ABS Lab Analytical
Work Order: 708057

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 07, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 708057 GEL Work Order: 708057

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

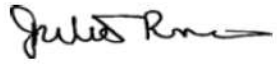
J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by 

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21191	Project:	SOOP00119
Sample ID:	708057001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 13:08		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.979	0.0330	0.100	mg/L		1	TXT1	02/10/25	2251	2747296	1
Chloride		52.5	3.35	10.0	mg/L		50	TXT1	02/11/25	1947	2747296	2
Sulfate		817	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21192	Project:	SOOP00119
Sample ID:	708057002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 13:13		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.983	0.0330	0.100	mg/L		1	TXT1	02/10/25	2323	2747296	1
Chloride		51.8	3.35	10.0	mg/L		50	TXT1	02/11/25	2019	2747296	2
Sulfate		831	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21197	Project:	SOOP00119
Sample ID:	708057003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 11:57		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		1.29	0.0330	0.100	mg/L		1	TXT1	02/11/25	0130	2747296	1
Chloride		546	6.70	20.0	mg/L		100	TXT1	02/11/25	2051	2747296	2
Sulfate		888	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21182	Project:	SOOP00119
Sample ID:	708057004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 14:23		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0804	0.0330	0.100	mg/L		1	TXT1	02/11/25	0202	2747296	1
Chloride		171	3.35	10.0	mg/L		50	TXT1	02/11/25	2123	2747296	2
Sulfate		80.7	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21184	Project:	SOOP00119
Sample ID:	708057005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 10:43		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		1.59	0.0330	0.100	mg/L		1	TXT1	02/11/25	0234	2747296	1
Chloride		61.1	3.35	10.0	mg/L		50	TXT1	02/11/25	2258	2747296	2
Sulfate		681	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21185	Project:	SOOP00119
Sample ID:	708057006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 09:44		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.108	0.0330	0.100	mg/L		1	TXT1	02/11/25	0306	2747296	1
Sulfate		20.0	0.266	0.800	mg/L		2	TXT1	02/11/25	2330	2747296	2
Chloride		182	3.35	10.0	mg/L		50	TXT1	02/12/25	0002	2747296	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

QC Summary

Report Date: March 10, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **708057**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2747296												
QC1206000007 708054001 DUP												
Chloride			738		738	mg/L	0.0515			(0%-20%)	TXT1	02/11/25 10:46
Fluoride			0.102		0.101	mg/L	1.38	^		(+/-0.100)		02/10/25 13:18
Sulfate			784		788	mg/L	0.58			(0%-20%)		02/11/25 10:46
QC1206000009 708054002 DUP												
Chloride			10.6		10.6	mg/L	0.0245			(0%-20%)		02/11/25 12:21
Fluoride		J	0.0376	J	0.0389	mg/L	3.4	^		(+/-0.100)		02/10/25 14:53
Sulfate			1.93		1.92	mg/L	0.177	^		(+/-0.400)		
QC1206000006 LCS												
Chloride	5.00				4.66	mg/L			93.2	(90%-110%)		02/10/25 12:14
Fluoride	2.50				2.47	mg/L			98.7	(90%-110%)		
Sulfate	10.0				9.55	mg/L			95.5	(90%-110%)		
QC1206000005 MB												
Chloride				U	0.0670	mg/L						02/10/25 11:07
Fluoride				U	0.0330	mg/L						
Sulfate				U	0.133	mg/L						

QC Summary

Workorder: **708057**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2747296										
QC1206000008 708054001 PS										
Chloride	5.00	3.69		8.67	mg/L		99.5	(90%-110%)	TXT1	02/11/25 11:18
Fluoride	2.50	0.102		2.48	mg/L		95.2	(90%-110%)		02/10/25 13:49
Sulfate	10.0	3.92		13.1	mg/L		92.3	(90%-110%)		02/11/25 11:18
QC1206000010 708054002 PS										
Chloride	5.00	5.30		10.5	mg/L		105	(90%-110%)		02/11/25 12:53
Fluoride	2.50	0.0376	J	2.65	mg/L		104	(90%-110%)		02/10/25 15:25
Sulfate	10.0	1.93		11.5	mg/L		96.2	(90%-110%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

QC Summary

Workorder: **708057**

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

N1 See case narrative

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

x Subaliquot was taken. See Case Narrative for details.

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.

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21191	Project:	SOOP00119
Sample ID:	708057001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 13:08		
Receive Date:	07-FEB-25		
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		1.56	+/-0.538	0.612	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.43	+/-0.458	0.333	1.00	pCi/L			RS2	03/09/25	0903	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.9	(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 10, 2025

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:	AG21192	Project:	SOOP00119
Sample ID:	708057002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 13:13		
Receive Date:	07-FEB-25		
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		1.81	+/-0.560	0.610	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.658	+/-0.280	0.219	1.00	pCi/L			RS2	03/09/25	0936	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21197	Project:	SOOP00119
Sample ID:	708057003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 11:57		
Receive Date:	07-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.19	+/-0.772	0.620	1.00	pCi/L			DH1	03/10/25	1114	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.03	+/-0.408	0.430	1.00	pCi/L			RS2	03/09/25	0936	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64.4	(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: March 10, 2025

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:	AG21182	Project:	SOOP00119
Sample ID:	708057004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 14:23		
Receive Date:	07-FEB-25		
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		0.912	+/-0.463	0.656	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.13	+/-0.405	0.271	1.00	pCi/L			RS2	03/09/25	0936	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21184	Project:	SOOP00119
Sample ID:	708057005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 10:43		
Receive Date:	07-FEB-25		
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		2.55	+/-0.620	0.642	1.00	pCi/L			DH1	03/10/25	1115	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.00	+/-0.327	0.202	1.00	pCi/L			RS2	03/09/25	0936	2747309	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: March 10, 2025

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:	AG21185	Project:	SOOP00119
Sample ID:	708057006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-FEB-25 09:44		
Receive Date:	07-FEB-25		
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		1.64	+/-0.528	0.641	1.00	pCi/L			DH1	03/10/25	1118	2747711	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.19	+/-0.420	0.410	1.00	pCi/L			RS2	03/09/25	0936	2747309	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.9	(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: March 10, 2025

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

Workorder: **708057**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2747711										
QC1206000960 708054001 DUP										
Radium-228	U	0.0723		1.09	pCi/L	175 *		(0% - 100%)	DH1	03/10/25 11:14
	Uncertainty	+/-0.476		+/-0.591						
QC1206000961 LCS										
Radium-228	28.5			24.1	pCi/L		84.5	(75%-125%)		03/10/25 11:13
	Uncertainty			+/-1.45						
QC1206000959 MB										
Radium-228			U	0.530	pCi/L					03/10/25 11:13
	Uncertainty			+/-0.390						
Rad Ra-226										
Batch 2747309										
QC1206000048 708054001 DUP										
Radium-226		0.832		0.676	pCi/L	20.7		(0% - 100%)	RS2	03/09/25 09:36
	Uncertainty	+/-0.342		+/-0.270						
QC1206000050 LCS										
Radium-226	27.2			21.4	pCi/L		78.6	(75%-125%)		03/09/25 10:08
	Uncertainty			+/-1.52						
QC1206000047 MB										
Radium-226			U	0.293	pCi/L					03/09/25 09:36
	Uncertainty			+/-0.319						
QC1206000049 708054001 MS										
Radium-226	134	0.832		102	pCi/L		75.2	(75%-125%)		03/09/25 09:36
	Uncertainty	+/-0.342		+/-7.15						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **708057**

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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 #: 708057

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2747296

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

GEL Sample ID#	Client Sample Identification
708057001	AG21191
708057002	AG21192
708057003	AG21197
708057004	AG21182
708057005	AG21184
708057006	AG21185
1206000005	Method Blank (MB)
1206000006	Laboratory Control Sample (LCS)
1206000007	708054001(AG21180) Sample Duplicate (DUP)
1206000008	708054001(AG21180) Post Spike (PS)
1206000009	708054002(AG21179) Sample Duplicate (DUP)
1206000010	708054002(AG21179) 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 1206000007 (AG21180DUP), 1206000008 (AG21180PS), 1206000009 (AG21179DUP), 1206000010 (AG21179PS), 708057001 (AG21191), 708057002 (AG21192), 708057003 (AG21197), 708057004 (AG21182), 708057005 (AG21184) and 708057006 (AG21185) 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	708057					
	001	002	003	004	005	006
Chloride	50X	50X	100X	50X	50X	50X
Sulfate	50X	50X	100X	50X	50X	2X

Miscellaneous Information

Manual Integrations

Sample 1206000009 (AG21179DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2747711

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

GEL Sample ID#	Client Sample Identification
708057001	AG21191
708057002	AG21192
708057003	AG21197
708057004	AG21182
708057005	AG21184
708057006	AG21185
1206000959	Method Blank (MB)
1206000960	708054001(AG21180) Sample Duplicate (DUP)
1206000961	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206000960 (AG21180DUP) Aliquot was reduced due to limited sample volume.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1206000960 (AG21180DUP)	Radium-228	RPD 175* (0.0%-100.0%) RER 2.47 (0-3)

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2747309

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

GEL Sample ID#	Client Sample Identification
708057001	AG21191
708057002	AG21192
708057003	AG21197
708057004	AG21182
708057005	AG21184
708057006	AG21185
1206000047	Method Blank (MB)
1206000048	708054001(AG21180) Sample Duplicate (DUP)
1206000049	708054001(AG21180) Matrix Spike (MS)
1206000050	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, 1206000049 (AG21180MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

RAD - 3/7/25 708057

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 14 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: / /

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG21191	CGYP-2	2/4/25	1308	MDG BCA	3	P	G	GW	2/1		2	1		
92	CGYP-2 DUP		1313											
97	CGYP-7		1157											
82	CCMGP-1		1423											
84	CCMGP-3		1043											
85	CCMGP-4		0944											

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

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

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs

Ultimate
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☑ Rad 226
- ☑ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	36851		GEL	2/7/25	1022
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL			2-7-25	1637
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 708057	GEL PM:
Received By: QG	Date Received at GEL: 2/7/25	

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	0°C				
cooler 2	0°C				
cooler 3	12°C				
cooler 4	16°C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) missing one set of TB
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
container count is 1 for AG21183 but received three. also the same for AG21186.

PM (or PMA) review: Initials MR Date 2/10/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 10 March 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

July 08, 2025

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

Re: ABS Lab Analytical
Work Order: 728144

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 10, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 728144 GEL Work Order: 728144

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

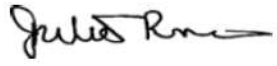
** Analyte is a surrogate compound

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: July 8, 2025

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:	AG34934	Project:	SOOP00119
Sample ID:	728144001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	02-JUN-25 10:34		
Receive Date:	10-JUN-25		
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	0.735	+/-0.552	0.880	1.00	pCi/L			JE1	06/26/25	1140	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.481	+/-0.429	0.587	1.00	pCi/L			RS2	06/24/25	0953	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.7	(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: July 8, 2025

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:	AG34930	Project:	SOOP00119
Sample ID:	728144002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 10:47		
Receive Date:	10-JUN-25		
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		3.46	+/-0.780	0.785	1.00	pCi/L			JE1	06/26/25	1136	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		8.19	+/-1.58	0.757	1.00	pCi/L			RS2	06/24/25	0953	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34929	Project:	SOOP00119
Sample ID:	728144003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 11:45		
Receive Date:	10-JUN-25		
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		3.28	+/-0.712	0.623	1.00	pCi/L			JE1	06/26/25	1306	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.41	+/-0.799	0.665	1.00	pCi/L			RS2	06/24/25	0953	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34911	Project:	SOOP00119
Sample ID:	728144004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 12:44		
Receive Date:	10-JUN-25		
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	0.427	+/-0.513	0.866	1.00	pCi/L			JE1	06/26/25	1140	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.60	+/-0.649	0.499	1.00	pCi/L			RS2	06/24/25	0952	2813432	2

The following Analytical Methods were performed:

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

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

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

Column headers are defined as follows:

DF: Dilution Factor
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 8, 2025

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:	AG34927	Project:	SOOP00119
Sample ID:	728144005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 13:39		
Receive Date:	10-JUN-25		
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		2.13	+/-0.652	0.784	1.00	pCi/L			JE1	06/26/25	1140	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.871	+/-0.520	0.443	1.00	pCi/L			RS2	06/24/25	0952	2813432	2

The following Analytical Methods were performed:

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

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

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

Column headers are defined as follows:

DF: Dilution Factor
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 8, 2025

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:	AG34928	Project:	SOOP00119
Sample ID:	728144006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 13:44		
Receive Date:	10-JUN-25		
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		2.09	+/-0.732	0.843	1.00	pCi/L			JE1	06/26/25	1139	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.00	+/-0.533	0.470	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34933	Project:	SOOP00119
Sample ID:	728144007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 14:50		
Receive Date:	10-JUN-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.44	+/-0.900	0.834	1.00	pCi/L			JE1	06/26/25	1136	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.82	+/-0.773	0.695	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.4	(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: July 8, 2025

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:	AG34926	Project:	SOOP00119
Sample ID:	728144008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	05-JUN-25 15:48		
Receive Date:	10-JUN-25		
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		3.40	+/-0.788	0.794	1.00	pCi/L			JE1	06/26/25	1136	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.22	+/-0.671	0.611	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34895	Project:	SOOP00119
Sample ID:	728144009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-JUN-25 10:21		
Receive Date:	10-JUN-25		
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	0.590	+/-0.529	0.868	1.00	pCi/L			JE1	06/26/25	1136	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.401	+/-0.358	0.469	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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
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 8, 2025

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: AG34893
Sample ID: 728144010
Matrix: GW
Collect Date: 05-JUN-25 09:37
Receive Date: 10-JUN-25
Collector: Client

Project: SOOP00119
Client ID: SOOP001

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	0.736	+/-0.516	0.814	1.00	pCi/L			JE1	06/26/25	1142	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.210	+/-0.337	0.610	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.6	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 8, 2025

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:	AG34885	Project:	SOOP00119
Sample ID:	728144011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JUN-25 09:37		
Receive Date:	10-JUN-25		
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		1.17	+/-0.583	0.859	1.00	pCi/L			JE1	06/26/25	1142	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.910	+/-0.502	0.457	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.8	(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: July 8, 2025

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:	AG34886	Project:	SOOP00119
Sample ID:	728144012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JUN-25 10:38		
Receive Date:	10-JUN-25		
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	+/-0.736	0.810	1.00	pCi/L			JE1	06/26/25	1143	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.891	+/-0.537	0.618	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.8	(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: July 8, 2025

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:	AG34887	Project:	SOOP00119
Sample ID:	728144013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JUN-25 11:39		
Receive Date:	10-JUN-25		
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	0.135	+/-0.430	0.784	1.00	pCi/L			JE1	06/26/25	1136	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.364	+/-0.456	0.758	1.00	pCi/L			RS2	06/24/25	1027	2813432	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	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: July 8, 2025

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:	AG34888	Project:	SOOP00119
Sample ID:	728144014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JUN-25 12:38		
Receive Date:	10-JUN-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.27	+/-0.797	0.616	1.00	pCi/L			JE1	06/26/25	1139	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.234	+/-0.387	0.704	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			60	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34889	Project:	SOOP00119
Sample ID:	728144015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JUN-25 12:43		
Receive Date:	10-JUN-25		
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		3.07	+/-0.735	0.802	1.00	pCi/L			JE1	06/26/25	1139	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.690	+/-0.488	0.576	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.1	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34890	Project:	SOOP00119
Sample ID:	728144016	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	04-JUN-25 14:03		
Receive Date:	10-JUN-25		
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		1.08	+/-0.554	0.804	1.00	pCi/L			JE1	06/26/25	1142	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.854	+/-0.599	0.775	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 8, 2025

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:	AG34880	Project:	SOOP00119
Sample ID:	728144017	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-JUN-25 11:26		
Receive Date:	10-JUN-25		
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		1.01	+/-0.537	0.784	1.00	pCi/L			JE1	06/26/25	1139	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.0289	+/-0.233	0.541	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.2	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 8, 2025

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:	AG34882	Project:	SOOP00119
Sample ID:	728144018	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-JUN-25 13:43		
Receive Date:	10-JUN-25		
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		1.05	+/-0.571	0.815	1.00	pCi/L			JE1	06/26/25	1139	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.425	+/-0.380	0.497	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 8, 2025

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:	AG34883	Project:	SOOP00119
Sample ID:	728144019	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-JUN-25 14:50		
Receive Date:	10-JUN-25		
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		0.881	+/-0.555	0.830	1.00	pCi/L			JE1	06/26/25	1136	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.419	+/-0.416	0.605	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.3	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 8, 2025

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:	AG34884	Project:	SOOP00119
Sample ID:	728144020	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	03-JUN-25 16:16		
Receive Date:	10-JUN-25		
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		12.5	+/-1.26	0.847	1.00	pCi/L			JE1	06/26/25	1142	2812271	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		5.78	+/-1.20	0.378	1.00	pCi/L			RS2	06/24/25	1103	2813432	2

The following Analytical Methods were performed:

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

QC Summary

Report Date: July 8, 2025

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

Workorder: **728144**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2812271										
QC1206137705 728144001 DUP										
Radium-228	U	0.735	U	0.465	pCi/L	N/A		N/A	JE1	06/26/25 11:39
	Uncertainty	+/-0.552		+/-0.505						
QC1206137706 LCS										
Radium-228	27.7			31.6	pCi/L		114	(75%-125%)		06/26/25 11:36
	Uncertainty			+/-2.08						
QC1206137704 MB										
Radium-228			U	0.690	pCi/L					06/26/25 11:40
	Uncertainty			+/-0.535						
Rad Ra-226										
Batch 2813432										
QC1206140305 728144010 DUP										
Radium-226	U	0.210	U	0.547	pCi/L	N/A		N/A	RS2	06/24/25 11:22
	Uncertainty	+/-0.337		+/-0.519						
QC1206140307 LCS										
Radium-226	27.1			32.4	pCi/L		120	(75%-125%)		06/24/25 11:22
	Uncertainty			+/-3.23						
QC1206140304 MB										
Radium-226			U	0.167	pCi/L					06/24/25 11:03
	Uncertainty			+/-0.364						
QC1206140306 728144010 MS										
Radium-226	137 U	0.210		125	pCi/L		91.2	(75%-125%)		06/24/25 11:22
	Uncertainty	+/-0.337		+/-12.3						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: 728144

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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 #: 728144

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2812271

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

GEL Sample ID#	Client Sample Identification
728144001	AG34934
728144002	AG34930
728144003	AG34929
728144004	AG34911
728144005	AG34927
728144006	AG34928
728144007	AG34933
728144008	AG34926
728144009	AG34895
728144010	AG34893
728144011	AG34885
728144012	AG34886
728144013	AG34887
728144014	AG34888
728144015	AG34889
728144016	AG34890
728144017	AG34880
728144018	AG34882
728144019	AG34883
728144020	AG34884
1206137704	Method Blank (MB)
1206137705	728144001(AG34934) Sample Duplicate (DUP)
1206137706	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Sample 728144003 (AG34929) was recounted to verify sample results. Recount is reported.

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

Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2813432

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

GEL Sample ID#	Client Sample Identification
728144001	AG34934
728144002	AG34930
728144003	AG34929
728144004	AG34911
728144005	AG34927
728144006	AG34928
728144007	AG34933
728144008	AG34926
728144009	AG34895
728144010	AG34893
728144011	AG34885
728144012	AG34886
728144013	AG34887
728144014	AG34888
728144015	AG34889
728144016	AG34890
728144017	AG34880
728144018	AG34882
728144019	AG34883
728144020	AG34884
1206140304	Method Blank (MB)
1206140305	728144010(AG34893) Sample Duplicate (DUP)
1206140306	728144010(AG34893) Matrix Spike (MS)
1206140307	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, 1206140306 (AG34893MS), 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.

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 9 / 25 Send report to lcwillia@santeecooper.com & sherrilevy@santeecooper.com

Chain of Custody 728144

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01 / 36500

Rerun request for any flagged Q (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			
AG34934	PM-1	6/2/25	1034	AGP EA	2	P	G	GW	2		X			
AG34930	CGYP-4	6/5/25	1047											
AG34929	CGYP-3		1145											
AG34911	SCMGP-1		1244											
AG34927	CGYP-2		1339											
AG34928	CGYP-2 DUP		1344											
AG34933	CGYP-7		1450											
AG34926	CGYP-1		1548											
AG34895	CBW-1	6/3/25	1021											

Nutrients [illegible]

Gypsum [illegible]

Coal
- ☐ Short Prox:
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI
- **Other Analysis:**
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil [illegible]

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

Metals [illegible]

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
SLevy	35594	DP	GEL	6/10/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
DP	GEL	[illegible]	[illegible]	6/10/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 9 / 25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G02.3 / 36500

Rerun request for any flagged QI 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			
AG 34893 •	CAP-13	6/5/25	0937	AGP EA	2	P	G	GW	2		X			
AG34885 •	CAP-6	6/4/25	0937											
AG34886 •	CAP-7		1038											
AG34887 •	CAP-8		1139											
AG34888 •	CAP-9		1238											
AG34889 •	CAP-9 DUP		1243											
AG34890 •	CAP-10		1403											

Nutrients
- TOC
- DOC
- TKN
- NH3-N
- F
- Cl
- NO3
- Br
- SO4

Cyanide
- Total Cyanide
- Amenable Cyanide
- Weak Acid Dissociable Cyanide
- Free Cyanide
- Cyanide SPLP
- Cyanide TCLP

Coal
- Short Prox.
  - % Moisture
  - Ash
  - Sulfur
- BTUs
- Ultimate
- Volatile Matter
- CHN
- HGI

Other Analysis:
- Fineness
- Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- Sieve
- % Moisture

NPDES
- Oil & Grease
- As
- TSS

Gas
- Tedlar Bag Only
- Methane
- Ethane
- Ethene
- Acetylene
- Dissolved Gases
- TCLP
- Used Oil
- Hydrocarbon Identification
- SPLP Bag
- TCLP

MISC.
- BTEX
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- Total Coliform
- pH
- Dissolved As
- Dissolved Fe
- Rad 226
- Rad 228
- PCB

Total Metals (TM)

Ag	Al	As	B
Ba	Be	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	Pb
Sb	Se	Si	Sr
Ti	Tl	V	Zn
Hg	OAI	NRP scan	

TCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594		GEL	6/10/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL	Thyasia Tatum	GEL	6-10-25	1115
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: SW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 9 / 25 Send report to lcwilli@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G02.3 / 36500

Rerun request for any flagged Q: (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			
AG34880*	CAP-1	6/3/25	1126	NSP EA	2	P	G	GW	2		X			
AG34882*	CAP-3		1343											
AG34883*	CAP-4		1450											
AG34884*	CAP-5		1616											

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Full Metals List
		☐ Short Prox. ☐ % Moisture ☐ Ash ☐ Sulfur ☐ BTUs ☐ Ultimate ☐ Volatile Matter ☐ CHN ☐ HGI Other Analysis: ☐ Fineness ☐ Particulate Matter	☐ Ammonia ☐ LOI ☐ % Carbon ☐ Mineral Analysis ☐ Sieve ☐ % Moisture NPDES ☐ Oil & Grease ☐ As ☐ TSS		☐ BTEX ☐ Naphthalene ☐ VOA/Semi ☐ Oil & Grease ☐ E. Coli ☐ Total Coliform ☐ pH ☐ Dissolved As ☐ Dissolved Fe ☐ Rad 226 ☐ Rad 228 ☐ PCB	

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594		GEL	6/10/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
			GEL	6-10-25	1615
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SCDP | SDG/AR/COC/Work Order: 728144 | GEL PM: J.K.

Received By: Thyasia Tatum | Date Received at GEL: 12/10/25

Courier (Circle Applicable): FedEx Express FedEx Ground UPS (Field Services) Courier Client Other:

IR Temp gun #: IR2-23 Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	1°C		Cooler 2	1.1°C	

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 of "radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials JW Date 12/11/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 6

List of current GEL Certifications as of 08 July 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

July 10, 2025

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

Re: ABS Lab Analytical
Work Order: 729236

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 17, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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: 729236 GEL Work Order: 729236

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

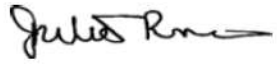
** Analyte is a surrogate compound

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: July 10, 2025

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:	AG34931	Project:	SOOP00119
Sample ID:	729236001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 13:06		
Receive Date:	17-JUN-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.73	+/-0.549	0.663	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.506	+/-0.330	0.404	1.00	pCi/L			RS2	07/03/25	1124	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.8	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 10, 2025

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:	AG34932	Project:	SOOP00119
Sample ID:	729236002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 12:00		
Receive Date:	17-JUN-25		
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		1.20	+/-0.454	0.590	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.829	+/-0.404	0.352	1.00	pCi/L			RS2	07/03/25	1124	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.5	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 10, 2025

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:	AG34913	Project:	SOOP00119
Sample ID:	729236003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 09:45		
Receive Date:	17-JUN-25		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.70	+/-0.506	0.593	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.00	+/-0.669	0.505	1.00	pCi/L			RS2	07/03/25	1224	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 10, 2025

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:	AG34914	Project:	SOOP00119
Sample ID:	729236004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 10:48		
Receive Date:	17-JUN-25		
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		1.25	+/-0.517	0.695	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.09	+/-0.641	0.501	1.00	pCi/L			RS2	07/03/25	1224	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 10, 2025

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:	AG34915	Project:	SOOP00119
Sample ID:	729236005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 14:00		
Receive Date:	17-JUN-25		
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		0.882	+/-0.486	0.705	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.575	+/-0.370	0.400	1.00	pCi/L			RS2	07/03/25	1224	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			62.5	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 10, 2025

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:	AG34899	Project:	SOOP00119
Sample ID:	729236006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 15:03		
Receive Date:	17-JUN-25		
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		0.839	+/-0.476	0.699	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.188	+/-0.265	0.462	1.00	pCi/L			RS2	07/03/25	1224	2817558	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.2	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 10, 2025

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:	AG34900	Project:	SOOP00119
Sample ID:	729236007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 15:08		
Receive Date:	17-JUN-25		
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		1.00	+/-0.475	0.661	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.190	+/-0.255	0.438	1.00	pCi/L			RS2	07/09/25	0854	2817559	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.1	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 10, 2025

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:	AG34901	Project:	SOOP00119
Sample ID:	729236008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	11-JUN-25 16:20		
Receive Date:	17-JUN-25		
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		0.723	+/-0.440	0.654	1.00	pCi/L			JE1	07/08/25	0906	2815380	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.499	+/-0.259	0.318	1.00	pCi/L			RS2	07/09/25	0854	2817559	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.3	(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

QC Summary

Report Date: July 10, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **729236**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2815380										
QC1206144186 729236001 DUP										
Radium-228		1.73		1.58	pCi/L	9.04		(0% - 100%)	JE1	07/08/25 09:06
	Uncertainty	+/-0.549		+/-0.557						
QC1206144187 LCS										
Radium-228	27.7			23.1	pCi/L		83.3	(75%-125%)		07/08/25 09:06
	Uncertainty			+/-1.45						
QC1206144185 MB										
Radium-228			U	0.713	pCi/L					07/08/25 10:37
	Uncertainty			+/-0.486						
Rad Ra-226										
Batch 2817558										
QC1206148449 729220002 DUP										
Radium-226		0.885		1.12	pCi/L	23.2		(0% - 100%)	RS2	07/03/25 12:24
	Uncertainty	+/-0.421		+/-0.425						
QC1206148451 LCS										
Radium-226	27.2			27.9	pCi/L		102	(75%-125%)		07/03/25 13:34
	Uncertainty			+/-2.33						
QC1206148448 MB										
Radium-226			U	0.249	pCi/L					07/03/25 12:24
	Uncertainty			+/-0.230						
QC1206148450 729220002 MS										
Radium-226	129	0.885		149	pCi/L		115	(75%-125%)		07/03/25 14:40
	Uncertainty	+/-0.421		+/-11.8						
Batch 2817559										
QC1206148453 729236007 DUP										
Radium-226	U	0.190		0.488	pCi/L	88		(0% - 100%)	RS2	07/09/25 09:28
	Uncertainty	+/-0.255		+/-0.262						
QC1206148457 LCS										
Radium-226	27.2			23.4	pCi/L		86.2	(75%-125%)		07/09/25 10:00
	Uncertainty			+/-1.55						

QC Summary

Workorder: **729236**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2817559										
QC1206148452 MB										
Radium-226			U	0.119	pCi/L				RS2	07/09/25 09:28
	Uncertainty			+/-0.169						
QC1206148455 729236007 MS										
Radium-226	129 U	0.190		121	pCi/L		93.8	(75%-125%)		07/09/25 09:28
	Uncertainty	+/-0.255		+/-6.88						

Notes:

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

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

QC Summary

Workorder: **729236**

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 729236

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2815380

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

GEL Sample ID#	Client Sample Identification
729236001	AG34931
729236002	AG34932
729236003	AG34913
729236004	AG34914
729236005	AG34915
729236006	AG34899
729236007	AG34900
729236008	AG34901
1206144185	Method Blank (MB)
1206144186	729236001(AG34931) Sample Duplicate (DUP)
1206144187	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Sample 1206144185 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2817558

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

GEL Sample ID#	Client Sample Identification
729236001	AG34931
729236002	AG34932
729236003	AG34913
729236004	AG34914
729236005	AG34915

729236006	AG34899
1206148448	Method Blank (MB)
1206148449	729220002(AG34938) Sample Duplicate (DUP)
1206148450	729220002(AG34938) Matrix Spike (MS)
1206148451	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Sample 1206148450 (AG34938MS) was recounted due to high recovery. The recount is reported.

Miscellaneous Information

Additional Comments
The matrix spike, 1206148450 (AG34938MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2817559

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

GEL Sample ID#	Client Sample Identification
729236007	AG34900
729236008	AG34901
1206148452	Method Blank (MB)
1206148453	729236007(AG34900) Sample Duplicate (DUP)
1206148455	729236007(AG34900) Matrix Spike (MS)
1206148457	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1206148455 (AG34900MS) Aliquot was reduced due to limited sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 16 / 25 Send report to icwillia@santeecooper.com & sherrl.levy@santeecooper.com

Chain of Custody 729236

RAD

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

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09. GB1.1 / 36110

Rerun request for any flagged Q (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 224/225			
AG34931	CGYP-5	6/11/25	1306	AGP EA	2	G	G	GW	2		2			
AG34932	CGYP-6		1200											
AG34913	CCMGP-3		0945											
AG34914	CCMGP-4		1048											
AG34915	CCMGP-5		1400											
AG34899	CCMAP-4	6/11/25	1503											
AG34900	CCMAP-4 DUP		1503											
AG34901	CCMAP-5		1620											

Nutrients
- TOC
- TDOC
- TPHOS
- NH3-N
- TKN
- Cl
- NO3
- Br
- NO2
- SO4

Gypsum
- Wallboard
- Alk
- Moisture
- Neutralizable
- Soluble Metals
- Purity (CaSO4)
- Moisture
- Sulfite
- pH
- Chlorides
- Leachable Metals
- Sulfur
- USDA

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- Trans. Oil Quality
- Metal
- Furan
- Dissolved Gas
- Diesel Oil
- Health Index
- Neutralization Number
- Sediment
- Other

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

Metals (All)
- Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn, Hg

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
B Levy	35594		GEL	6/11/25	0938
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
				6-12-25	1600
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code-1=4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 729236	GEL PM:
Received By: KE	Date Received at GEL: 6/17/25	

Courier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services (Courier) Client Other:

IR Temp gun # IR1-24 Daily Calibration Performed? (Y)/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
	23	✓			

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) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?		✓		Preservation Method: Wet Ice Ice Packs Dry Ice (None) Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes__ No__ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes__ No__ NA__ (If unknown, select No) Are liquid VOA vials free of headspace? Yes__ No__ NA__ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials JW Date 6/18/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 10 July 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

December 03, 2025

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

Re: ABS Lab Analytical
Work Order: 751322

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 06, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Chain of Custody document was not properly completed *and 751322001(AG50785)*. COC sample ID for 751322001 did not match ID on container. Client was notified and sample ID was updated per client request. *and 751322001(AG50785)*. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

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

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: 751322 GEL Work Order: 751322

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

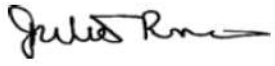
** Analyte is a surrogate compound

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: December 3, 2025

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:	AG50785	Project:	SOOP00119
Sample ID:	751322001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	05-NOV-25 12:23		
Receive Date:	06-NOV-25		
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		2.95	+/-0.739	0.808	1.00	pCi/L			DH1	12/02/25	1040	2905607	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.832	+/-0.330	0.285	1.00	pCi/L			LB2	11/26/25	1011	2898024	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.8	(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: December 3, 2025

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:	AG50786	Project:	SOOP00119
Sample ID:	751322002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	05-NOV-25 10:15		
Receive Date:	06-NOV-25		
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		0.666	+/-0.358	0.519	1.00	pCi/L			DH1	12/02/25	1040	2905607	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.889	+/-0.297	0.224	1.00	pCi/L			LB2	11/26/25	1011	2898024	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.2	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: December 3, 2025

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:	AG50787	Project:	SOOP00119
Sample ID:	751322003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	05-NOV-25 10:20		
Receive Date:	06-NOV-25		
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		0.781	+/-0.435	0.649	1.00	pCi/L			DH1	12/02/25	1040	2905607	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.30	+/-0.420	0.342	1.00	pCi/L			LB2	11/26/25	1011	2898024	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.2	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: December 3, 2025

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

Workorder: **751322**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2905607										
QC1206314880 LCS										
Radium-228	22.4			22.3	pCi/L		99.6	(75%-125%)	DH1	12/02/25 10:40
	Uncertainty			+/-1.37						
QC1206314965 LCSD										
Radium-228	22.4			19.6	pCi/L	12.7	87.7	(0%-20%)		12/02/25 10:40
	Uncertainty			+/-1.28						
QC1206314878 MB										
Radium-228			U	0.303	pCi/L					12/02/25 10:40
	Uncertainty			+/-0.305						
Rad Ra-226										
Batch 2898024										
QC1206300499 751322002 DUP										
Radium-226		0.889		0.839	pCi/L	5.77		(0% - 100%)	LB2	11/26/25 10:11
	Uncertainty	+/-0.297		+/-0.277						
QC1206300501 LCS										
Radium-226	27.3			23.1	pCi/L		84.6	(75%-125%)		11/26/25 10:10
	Uncertainty			+/-1.40						
QC1206300498 MB										
Radium-226			U	0.189	pCi/L					11/26/25 10:11
	Uncertainty			+/-0.179						
QC1206300500 751322002 MS										
Radium-226	132	0.889		130	pCi/L		97.3	(75%-125%)		11/26/25 10:11
	Uncertainty	+/-0.297		+/-7.38						

Notes:

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

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **751322**

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 751322

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2905607

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

GEL Sample ID#	Client Sample Identification
751322001	AG50785
751322002	AG50786
751322003	AG50787
1206314878	Method Blank (MB)
1206314880	Laboratory Control Sample (LCS)
1206314965	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
751322001 (AG50785) Aliquot was reduced due to limited sample volume.

Technical Information

Sample Re-prep/Re-analysis
Samples were reprepped due to high blank activity. The re-analysis is being reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2898024

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

GEL Sample ID#	Client Sample Identification
751322001	AG50785
751322002	AG50786
751322003	AG50787
1206300498	Method Blank (MB)
1206300499	751322002(AG50786) Sample Duplicate (DUP)

1206300500	751322002(AG50786) Matrix Spike (MS)
1206300501	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, 1206300500 (AG50786MS), 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.

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 12 / 5 / 25 Send report to linda.williams@santeecooper.com, sherri.levy@santeecooper.com, analyticalservices@santeecooper.com

751322

Chain of Custody

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

(Internal Use Only)

Customer Email/Report Recipient:	Date Results Needed by:	Project/Task/Unit #:	Rerun request for any flagged QC
LINDA. WILLIAMS @santeecooper.com	/ /	125915 / JM62.89.681.1 / 3611D	(Yes) No

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Analysis Group: RAD 226/228			
AG50705	CGYP-5	11/5/25	1223	CG JR	2	P	G	GW	2		X			
AG50786	CGYP-6	"	1015	"	"	"	"	"	"		"			
AG50787	CGYP-6 DUP	"	1020	"	"	"	"	"	"		"			

Nutrients
- NO3
- NO2
- TKN
- NH3
- Cl
- NO3+NO2
- TN
- TKN
- TP
- Ortho-P
- Total P
- Other

Cyanide
- Amenable
- Total
- CNO
- Other

Coal
- Short Prox:
  - % Moisture
  - Ash
  - Sulfur
  - BTUs
- Ultimate
  - Volatile Matter
  - CHN
  - HGI
- Other Analysis:
  - Fineness
  - Particulate Matter

Flyash
- Ammonia
- LOI
- % Carbon
- Mineral Analysis
- % Moisture

NPDES
- Oil & Grease
- As
- TSS
- Se
- E. Coli

Oil
- Flash point
- Density
- Viscosity
- Sediment
- Ash
- Sulfur
- Other

MISC.
- Limestone
- Naphthalene
- VOA/Semi
- Oil & Grease
- E. Coli
- P/A Coliform
- pH
- Diss. Metals
- Rad 226
- Rad 228
- PCB
- Sieve

Metals (Total)
- Al, As, B
- Ba, Be, Ca, Cd
- Co, Cr, Cu, Fe
- Hg, Mn, Mo, Ni
- Pb, Sb, Se, Sn
- Sr, Ti, Tl, V, Zn
- Zr
- Hardness (as CaCO3)
- Metals (Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	J. Williams	38549	11/6/25	1156
J. Williams	38549	K. Lew		11/6/25	1255

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Seal intact as received:

YES ☐ NO ☐ N/A ☐

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP | SDG/AR/COC/Work Order: 751322 | GEL PM: JR

Received By: KE | Date Received at GEL: 11/06/2025

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-25 Daily Calibration Performed? (Y) N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	0°	✓			
Cooler 2	20°	✓			

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed? KE 11-6	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?			✓	IDs and containers affected:
9	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			Both GEL and client labels
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
No time on 1/2 containers for ID "AG50903"
The LabWorks ID# for sample ID "CGYP-5" does not match COC
* 751322

PM (or PMA) review: Initials CH Date 11/7/25

☐ Continuation Form Required when selected

Outlook

Re: Sample ID does not match COC please advise SOOP00119 GEL 751322

From Caitlyn Mettetal <Caitlyn.Mettetal@gel.com>
Date Mon 11/10/2025 8:36 AM
To Sherri Levy <Sherri.Levy@santeecooper.com>; Jeanette Gilmetti <jeanette.gilmetti@santeecooper.com>
Cc Team Robinson <Team.Robinson@gel.com>

Good morning Sherri,

Thank you for getting back to me. I will update the sample ID.

Thank you,
Caitlyn Mettetal
Project Manager Assistant

GEL | Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.556.8171 ext. 4543 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-mail: Caitlyn.Mettetal@gel.com

From: Sherri Levy <Sherri.Levy@santeecooper.com>
Sent: Monday, November 10, 2025 7:53 AM
To: Caitlyn Mettetal <Caitlyn.Mettetal@gel.com>; Jeanette Gilmetti <jeanette.gilmetti@santeecooper.com>
Cc: Team Robinson <Team.Robinson@gel.com>
Subject: Re: Sample ID does not match COC please advise SOOP00119 GEL 751322

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good morning,

My apologies for the mistake. The correct sample ID for CGYP-5 is AG50785. Please update and proceed. Thank you. Let m know if you need anything else from me.

Warm Regards,

Sherri J. Levy
Laboratory Specialist III
Environmental Resources
☎843.761.8000 ext. 5709
sherri.levy@santeecooper.com

santee cooper

From: Caitlyn Mettetal <Caitlyn.Mettetal@gel.com>
Sent: Friday, November 7, 2025 10:25 AM
To: Jeanette Gilmetti <jeanette.gilmetti@santeecooper.com>; Sherri Levy <Sherri.Levy@santeecooper.com>
Cc: Team Robinson <Team.Robinson@gel.com>
Subject: [EXTERNAL SENDER] Sample ID does not match COC please advise SOOP00119 GEL 751322

Good morning,

There was a discrepancy between the sample ID listed on the COC and the ID listed on the sample container for sample "CGYP-5". Please advise on which sample ID you would like to be reported. Attached you will find the COC.

Thank you,
Caitlyn Mettetal
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.556.8171 ext. 4543 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-mail: Caitlyn.Mettetal@gel.com

CONFIDENTIALITY NOTICE: This e-mail and any files transmitted with it are the property of The GEL Group, Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by The GEL Group, Inc. and its affiliates.

WARNING!
This e-mail message originated outside of Santee Cooper.
Do not click on any links or open any attachments unless you are confident it is from a trusted source.
If you have questions, please call the Technology Service Desk at Ext. 7777.

List of current GEL Certifications as of 03 December 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 14, 2025

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

Re: ABS Lab Analytical
Work Order: 704945

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 17, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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,

Max Gloth

Max Gloth for
Julie Robinson
Project Manager

Purchase Order: 125915/JM02.09.G01/36500
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: 704945 GEL Work Order: 704945

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by Max Gloth

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

Certificate of Analysis

Report Date: February 14, 2025

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:	AG21205	Project:	SOOP00119
Sample ID:	704945001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-JAN-25 10:19		
Receive Date:	17-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
SM 5310 B Total Organic Carbon "As Received"												
Total Organic Carbon Average		6.14	0.330	1.00	mg/L		1	KB3	01/21/25	0812	2737188	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0382	0.0330	0.100	mg/L		1	CWW	01/18/25	0251	2736888	2
Chloride		11.7	0.134	0.400	mg/L		2	CWW	01/18/25	1640	2736888	3
Sulfate		21.4	0.266	0.800	mg/L		2					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0700	0.0700	0.200	mg/L		10	AXH3	01/20/25	0743	2736854	4

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 353.2 Low Level	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: February 14, 2025

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:	AG21166	Project:	SOOP00119
Sample ID:	704945002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-JAN-25 11:54		
Receive Date:	17-JAN-25		
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		1.98	0.330	1.00	mg/L		1	KB3	01/21/25	0925	2737188	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		3.46	0.0670	0.200	mg/L		1	CWW	01/18/25	0322	2736888	2
Fluoride		0.134	0.0330	0.100	mg/L		1					
Sulfate		76.9	0.665	2.00	mg/L		5	CWW	01/18/25	1816	2736888	3
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.671	0.0700	0.200	mg/L		10	AXH3	01/20/25	0744	2736854	4

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 353.2 Low Level	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: February 14, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **704945**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Carbon Analysis											
Batch 2737188											
QC1205981766 704945001 DUP											
Total Organic Carbon Average		6.14		6.24	mg/L	1.68			(0%-20%)	KB3	01/21/25 08:36
QC1205981754 LCS											
Total Organic Carbon Average	10.0			9.63	mg/L			96.3	(80%-120%)		01/20/25 22:36
QC1205981755 LCSD											
Total Organic Carbon Average	10.0			10.3	mg/L	7.09		103	(0%-20%)		01/20/25 22:48
QC1205981753 MB											
Total Organic Carbon Average			U	0.330	mg/L						01/20/25 22:28
QC1205981767 704945001 PS											
Total Organic Carbon Average	10.0	6.14		16.1	mg/L			99.7	(65%-120%)		01/21/25 09:01
Ion Chromatography											
Batch 2736888											
QC1205981051 704940001 DUP											
Chloride		168		166	mg/L	0.635			(0%-20%)	CWW	01/17/25 21:00
Fluoride		1.64		1.55	mg/L	5.93	^		(+/-0.500)		01/18/25 05:30
Sulfate		759		771	mg/L	1.54			(0%-20%)		01/17/25 21:00
QC1205981053 704945002 DUP											
Chloride		3.46		3.47	mg/L	0.202			(0%-20%)		01/18/25 03:54
Fluoride		0.134		0.142	mg/L	5.66	^		(+/-0.100)		

QC Summary

Workorder: **704945**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2736888										
Sulfate		76.9		76.4	mg/L	0.581		(0%-20%)	CWW	01/18/25 18:48
QC1205981050 LCS										
Chloride	5.00			4.83	mg/L		96.5	(90%-110%)		01/17/25 19:25
Fluoride	2.50			2.48	mg/L		99.3	(90%-110%)		
Sulfate	10.0			9.80	mg/L		98	(90%-110%)		
QC1205981049 MB										
Chloride			U	0.0670	mg/L					01/17/25 18:53
Fluoride			U	0.0330	mg/L					
Sulfate			U	0.133	mg/L					
QC1205981052 704940001 PS										
Chloride	5.00	1.68		6.55	mg/L		97.4	(90%-110%)		01/17/25 21:32
Fluoride	2.50	0.328		2.74	mg/L		96.4	(90%-110%)		01/18/25 06:02
Sulfate	10.0	7.59		17.6	mg/L		99.9	(90%-110%)		01/17/25 21:32
QC1205981054 704945002 PS										
Chloride	5.00	3.46		8.54	mg/L		102	(90%-110%)		01/18/25 04:26
Fluoride	2.50	0.134		2.77	mg/L		105	(90%-110%)		
Sulfate	10.0	15.4		25.5	mg/L		102	(90%-110%)		01/18/25 19:19

QC Summary

Workorder: **704945**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Nutrient Analysis										
Batch 2736854										
QC1205980950 704712003 DUP										
Nitrogen, Nitrate/Nitrite		2.93		3.09	mg/L	5.32		(0%-20%)	AXH3	01/20/25 07:13
QC1205980949 LCS										
Nitrogen, Nitrate/Nitrite	1.00			0.991	mg/L		99.1	(90%-110%)		01/20/25 07:11
QC1205980948 MB										
Nitrogen, Nitrate/Nitrite			U	0.00700	mg/L					01/20/25 07:10
QC1205980951 704712003 PS										
Nitrogen, Nitrate/Nitrite	1.00	0.293		1.23	mg/L		93.7	(90%-110%)		01/20/25 07:14

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
N1	See case narrative
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.

QC Summary

Workorder: **704945**

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

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

x Subaliquot was taken. See Case Narrative for details.

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.

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

Certificate of Analysis

Report Date: February 14, 2025

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:	AG21205	Project:	SOOP00119
Sample ID:	704945001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-JAN-25 10:19		
Receive Date:	17-JAN-25		
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	0.273	+/-0.523	0.919	1.00	pCi/L			DH1	02/14/25	1055	2737101	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.421	+/-0.295	0.290	1.00	pCi/L			MJ2	02/11/25	0902	2736892	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.6	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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: February 14, 2025

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:	AG21166	Project:	SOOP00119
Sample ID:	704945002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-JAN-25 11:54		
Receive Date:	17-JAN-25		
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		0.981	+/-0.594	0.917	1.00	pCi/L			DH1	02/14/25	1052	2737101	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.142	+/-0.260	0.498	1.00	pCi/L			MJ2	02/11/25	0902	2736892	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			66.1	(15%-125%)

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: February 14, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **704945**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2737101										
QC1205981536 704940001 DUP										
Radium-228		1.38		4.10	pCi/L	99.1		(0% - 100%)	DH1	02/14/25 10:54
Uncertainty		+/-0.692		+/-1.00						
QC1205981537 LCS										
Radium-228	28.7			28.7	pCi/L		100	(75%-125%)		02/14/25 10:54
Uncertainty				+/-1.67						
QC1205981535 MB										
Radium-228			U	0.304	pCi/L					02/14/25 10:49
Uncertainty				+/-0.471						
Rad Ra-226										
Batch 2736892										
QC1205981067 704940001 DUP										
Radium-226	U	0.264		0.586	pCi/L	75.7		(0% - 100%)	MJ2	02/11/25 09:01
Uncertainty		+/-0.263		+/-0.411						
QC1205981069 LCS										
Radium-226	27.2			24.3	pCi/L		89.1	(75%-125%)		02/11/25 09:01
Uncertainty				+/-2.28						
QC1205981066 MB										
Radium-226			U	0.299	pCi/L					02/11/25 09:02
Uncertainty				+/-0.324						
QC1205981068 704940001 MS										
Radium-226	137 U	0.264		137	pCi/L		99.6	(75%-125%)		02/11/25 09:01
Uncertainty		+/-0.263		+/-11.6						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded

QC Summary

Workorder: **704945**

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

<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
x	Subaliquot was taken. See Case Narrative for details.

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 #: 704945

General Chemistry

Product: **Carbon, Total Organic**
Analytical Method: SM 5310 B
Analytical Procedure: GL-GC-E-093 REV# 22
Analytical Batch: 2737188

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

GEL Sample ID#	Client Sample Identification
704945001	AG21205
704945002	AG21166
1205981753	Method Blank (MB)
1205981754	Laboratory Control Sample (LCS)
1205981755	Laboratory Control Sample Duplicate (LCSD)
1205981766	704945001(AG21205) Sample Duplicate (DUP)
1205981767	704945001(AG21205) 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: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2736888

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

GEL Sample ID#	Client Sample Identification
704945001	AG21205
704945002	AG21166
1205981049	Method Blank (MB)
1205981050	Laboratory Control Sample (LCS)
1205981051	704940001(AG21151) Sample Duplicate (DUP)
1205981052	704940001(AG21151) Post Spike (PS)
1205981053	704945002(AG21166) Sample Duplicate (DUP)
1205981054	704945002(AG21166) 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 1205981051 (AG21151DUP), 1205981052 (AG21151PS), 1205981053 (AG21166DUP), 1205981054 (AG21166PS), 704945001 (AG21205) and 704945002 (AG21166) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205981051 (AG21151DUP) and 1205981052 (AG21151PS) were diluted to minimize matrix effects on instrument performance. 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	704945	
	001	002
Chloride	2X	1X
Sulfate	2X	5X

Miscellaneous Information

Manual Integrations
Samples 1205981051 (AG21151DUP), 1205981052 (AG21151PS) and 704945001 (AG21205) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Nitrate/Nitrite Cad Redux Low Level**
Analytical Method: EPA 353.2 Low Level
Analytical Procedure: GL-GC-E-128 REV# 16
Analytical Batch: 2736854

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

GEL Sample ID#	Client Sample Identification
704945001	AG21205
704945002	AG21166
1205980948	Method Blank (MB)
1205980949	Laboratory Control Sample (LCS)
1205980950	704712003(NonSDG) Sample Duplicate (DUP)
1205980951	704712003(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205980950 (Non SDG 704712003DUP) and 1205980951 (Non SDG 704712003PS) were diluted because target analyte concentrations exceeded the calibration range. The following samples 704945001 (AG21205) and 704945002 (AG21166) in this sample group were diluted due to matrix interference. Dilutions may

be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	704945	
	001	002
Nitrogen, Nitrate/Nitrite	10X	10X

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2737101

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

GEL Sample ID#	Client Sample Identification
704945001	AG21205
704945002	AG21166
1205981535	Method Blank (MB)
1205981536	704940001(AG21151) Sample Duplicate (DUP)
1205981537	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced
1205981536 (AG21151DUP) Aliquot was reduced due to limited sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2736892

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

GEL Sample ID#	Client Sample Identification
704945001	AG21205
704945002	AG21166
1205981066	Method Blank (MB)
1205981067	704940001(AG21151) Sample Duplicate (DUP)

1205981068	704940001(AG21151) Matrix Spike (MS)
1205981069	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, 1205981068 (AG21151MS), 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.

2/17/25-KAV

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 1/31/25 704945

Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: linda.williams@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.601 / 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	F, Cl, SO4	NO2/NO3	TOC
AG21205	PM-1	1/14/25	1019	MDG/DCA	5	P/G	G	GW	1/2/3		X	X	X	X
AG21166	CBW-1	1/14/25	1154	MDG/DCA	5	P/G	G	GW	1/2/3		X	X	X	X
										EPA 300.0 - F, Cl, SO4				
										EPA 353.2 - NO2/NO3 by Cd Red				
										SM5310B - TOC				

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

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

Coal
- ☐ Short Prox.
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
- ☐ BTUs
- **Ultimate**
- ☐ Volatile Matter
- ☐ CHN
- ☐ HGI

Other Analysis:
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Quality
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals (As, Cd, Cr, Ni, Pb, Hg)
- ☐ GOFER

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

☐ Metals (All)

☐ Ag	☐ Al	☐ As	☐ B
☐ Ba	☐ Be	☐ Ca	☐ Cd
☐ Co	☐ Cr	☐ Cu	☐ Fe
☐ K	☐ Li	☐ Mg	☐ Mn
☐ Mo	☐ Na	☐ Ni	☐ Pb
☐ Sb	☐ Se	☐ Sn	☐ Sr
☐ Ti	☐ Tl	☐ V	☐ Zn
☐ Hg	☐ CrVI	☐ XRF scan	

☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	36851	[signature]	GEL	1/17/25	0917
[signature]	GEL	[signature]	GEL	1-17-25	1555

Sample Receiving (Internal Use Only)

TEMP (°C): _____

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Date/Time/Init for preservative:

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 704945
Received By: QG	Date Received: 1/17/25
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			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?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Radiochemistry - 210

PM (or PMA) review: Initials VMG Date 1/20/25 Page 1 of 1

List of current GEL Certifications as of 14 February 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Field Data Sheets

(Note: the color coding is to assist field personnel in determining when the well has stabilized enough to begin sample collection.)

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-1	**91.89**	17.04	**14'-24'**	2/5/2025	1444	24.45
Final GW Depth:	17.47	**depth to GW (ft)**		-0.58	**Screen Submerged (ft)?**	
Drawdown:	0.43	**ft**		2.01	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	N/A*	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1358	22.23	4.07	213	2350	17.3	5.61
1403	21.82	4.05	191	2330	9.8	3.64
1408	21.6	4.04	187	2330	6.4	2.93
1413	21.36	4.05	182	2340	8.2	2.45
1418	21.35	4.05	180	2340	8	1.91
1423	21.58	4.06	177	2320	10	1.5
1426	21.67	4.06	174	2310	11	1.38
1429	21.67	4.07	166	2300	12.1	1.24
1432	21.67	4.09	153	2290	9.6	1.18
1435	21.73	4.09	139	2270	11.7	1.11
1438	21.96	4.09	128	2260	13.3	0.93
1441	22.01	4.11	122	2270	14.3	0.87
1444	22.18	4.11	118	2260	14.9	0.85

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of both Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-2	**84.88**	9.81	**8'-18'**	2/4/2025	1308	21.57

Final GW Depth:	10.17	**depth to GW (ft)**	1.25	**Screen Submerged (ft)?**	
Drawdown:	0.36	**ft**	-0.51	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**			
Ferrous Iron	+++	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1240	22.77	4.1	241	1280	0	2.83
1245	21.46	4.06	253	1370	0	0.83
1250	20.82	4.01	257	1380	0	0.65
1255	20.67	3.98	257	1390	0	0.57
1300	20.86	3.96	256	1380	0	0.49
1305	20.75	3.95	254	1380	0	0.45
1308	21.23	3.94	255	1360	0	0.42

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
Duplicate @ 1313
NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-3	**83.95**	8.39	**10-20**	2/5/2025	1328	23.2

Final GW Depth:	8.61	**depth to GW (ft)**	4.07	**Screen Submerged (ft)?**	
Drawdown:	0.22	**ft**	-0.74	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**			
Ferrous Iron	N/A*	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1257	19.39	4.57	200	3960	518	2.14
1302	19.02	4.59	191	3940	382	0.61
1307	19.25	4.58	191	3920	139	0.51
1312	19.32	4.56	189	3910	58.7	0.45
1317	19.72	4.54	185	3860	25.4	0.41
1322	20.12	4.5	181	3820	23.7	0.37
1325	20.19	4.49	179	3810	17.9	0.36
1328	20.49	4.47	176	3790	12.4	0.34

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of both Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-4	**83.49**	7.52	**10-20**	2/5/2024	1233	23.1
Final GW Depth:	7.82	**depth to GW (ft)**		5.23	**Screen Submerged (ft)?**	
Drawdown:	0.3	**ft**		-0.35	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	N/A*	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1202	17.84	3.67	325	1790	1.6	5.61
1207	17.9	3.7	322	1790	0.2	0.64
1212	17.93	3.71	308	1790	0	0.49
1217	17.98	3.72	299	1790	0.3	0.42
1222	18.04	3.72	297	1790	0.1	0.37
1227	18.12	3.72	294	1780	0.1	0.33
1230	18.16	3.73	292	1780	0.2	0.33
1233	18.2	3.72	292	1780	0.2	0.32

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of both Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-5	**84.12**	7.59	**9-19**	2/5/2025	1132	22.03
Final GW Depth:	9.23	**depth to GW (ft)**		4.34	**Screen Submerged (ft)?**	
Drawdown:	1.64	**ft**		-0.1	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	N/A*	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1058	17.25	4.42	227	1190	16.3	17.52
1103	16.9	4.02	360	1190	8	9.44
1108	17.02	4	363	1190	6.7	7
1113	17.3	4	350	1180	3.5	5.35
1118	17.4	4	347	1170	4	4.97
1123	17.42	4	343	1170	3.9	4.12
1126	17.47	4.01	341	1160	4.8	3.57
1129	17.51	4	337	1160	5	3.29
1132	17.65	4	336	1160	4.8	3.1

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of both Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-6	**83.23**	8.96	**10-20**	2/5/2025	1036	22.86
Final GW Depth:	8.98	**depth to GW (ft)**		2.97	**Screen Submerged (ft)?**	
Drawdown:	0.02	**ft**		-0.93	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	N/A*	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1005	14.65	6.62	216	1900	478	8.98
1010	15.01	6.51	23	1900	14.8	3.44
1015	15.61	6.49	5	1900	3.1	1.4
1020	15.99	6.5	-5	1890	0.5	0.87
1025	16.2	6.52	-10	1890	1.1	0.71
1030	16.33	6.53	-13	1880	0.9	0.63
1033	16.36	6.53	-14	1880	1.6	0.61
1036	16.41	6.53	-15	1880	0.7	0.58

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of both Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-7	85.48	10.36	10-20	2/4/2025	1157	23.57
Final GW Depth:	10.69	depth to GW (ft)		1.98	Screen Submerged (ft)?	
Drawdown:	0.33	ft		-1.23	Silt Buildup (ft)	
Ferric Iron	N/A*	mg/L				
Ferrous Iron	+++	mg/L				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1132	20.15	4.05	244	2780	5.9	2.19
1137	20.43	4.1	254	2860	7.2	0.81
1142	20.57	4.04	258	2860	2.8	0.63
1147	20.94	4.04	255	2850	1.5	0.52
1152	20.39	4.03	254	2850	2.1	0.48
1157	20.89	4.03	249	2840	1.8	0.44

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-1	**84.3**	9.39	**38-48**	2/4/2025	1423	51.33
Final GW Depth:	9.48	**depth to GW (ft)**		31.17	**Screen Submerged (ft)?**	
Drawdown:	0.09	**ft**		-0.77	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	N/A*	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1355	23.62	6.69	-72	693	0	4.6
1400	23.34	6.95	-138	816	0	1.05
1405	22.86	6.82	-135	971	0	0.87
1410	22.76	6.79	-131	1120	0	0.67
1415	22.83	6.74	-109	1180	0	0.64
1420	22.59	6.73	-103	1190	0	0.59
1423	22.42	6.72	-101	1200	0	0.56

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of both Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-2	**96.73**	21.97	**24-34**	2/6/2025	913	37.04
Final GW Depth:	22.28	**depth to GW (ft)**		4.46	**Screen Submerged (ft)?**	
Drawdown:	0.31	**ft**		-0.36	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	N/A*	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
848	18.37	6.2	56	1430	5.5	7.03
853	18.67	6.23	-31	1470	1	3.03
858	18.95	5.72	-50	1690	0	4.41
903	18.95	5.71	-54	1710	0	4.98
908	19	5.7	-52	1710	0	4.84
913	19.05	5.7	-51	1710	0.8	4.39

Samples were collected by Aaron Hill and Dan Alexander

N/A Iron testing substances were not avilable

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-3	**84.44**	9.89	**10-20**	2/4/2025	1043	23.15
Final GW Depth:	9.95	**depth to GW (ft)**		2.55	**Screen Submerged (ft)?**	
Drawdown:	0.06	**ft**		-0.71	**Silt Buildup (ft)**	
Ferric Iron	NA*	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1018	20.7	4.37	152	1130	17.1	0.94
1023	20.7	4.17	239	1140	12.1	0.73
1028	20.66	4.13	261	1140	15.5	0.59
1033	20.72	4.12	266	1140	9.3	0.49
1038	20.82	4.11	270	1140	5.1	0.47
1043	21.02	4.11	266	1150	7.1	0.46

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-4	**84.82**	9.67	**42.5-52.5**	2/4/2025	944	55.28
Final GW Depth:	9.71	**depth to GW (ft)**		35.21	**Screen Submerged (ft)?**	
Drawdown:	0.04	**ft**		-0.4	**Silt Buildup (ft)**	
Ferric Iron	NA*	**mg/L**				
Ferrous Iron	1.36	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
919	18.77	6.65	-113	1080	19.9	1.03
924	18.81	6.4	-115	1190	15.3	0.9
929	18.78	6.34	-93	1230	9.1	0.82
934	18.8	6.34	-84	1250	10.2	0.66
939	18.91	6.35	-81	1260	9	0.61
944	19.02	6.35	-82	1270	7.2	0.58

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-5	**79.91**	6.07	**8-18**	2/3/2025	1509	21.32
Final GW Depth:	6.12	**depth to GW (ft)**		4.78	**Screen Submerged (ft)?**	
Drawdown:	0.05	**ft**		-0.47	**Silt Buildup (ft)**	
Ferric Iron	N/A*	**mg/L**				
Ferrous Iron	0.39	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1426	20.74	7.26	148	417	103	4.05
1431	20.11	6.72	80	419	100	1.67
1436	19.68	6.69	45	418	87.7	1.34
1441	19.45	6.65	23	418	75.8	1.12
1446	19.4	6.63	15	418	67.4	1.02
1451	19.29	6.62	5	420	39.7	1.15
1454	19.4	6.62	1	419	53.5	0.92
1457	19.35	6.63	-4	420	25.3	1.21
1500	19.3	6.63	-6	420	23.1	1.25
1503	19.24	6.61	-7	420	26.8	1.45
1506	19.18	6.6	-8	420	26.4	1.5
1509	19.16	6.57	-8	421	30	1.41

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:
NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
Background Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CBW-1	**85.80**	10.95	**14-24**	1/14/2025	1154	26.84

Final GW Depth:	10.95	**depth to GW (ft)**	5.68	**Screen Submerged (ft)?**	
Drawdown:	0	**ft**	-0.21	**Silt Buildup (ft)**	
Ferric Iron:	0	**mg/L**			
Ferrous Iron:	0.05	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1100	17.04	4.83	82	150	0	4.88
1105	17.18	4.67	215	150	0	4.38
1110	17.52	4.65	243	149	0	4.36
1115	17.52	4.65	257	148	0	3.63
1120	17.73	4.65	274	148	0	3.86
1125	17.6	4.65	285	148	0	1.89
1130	17.54	4.66	291	148	0	1.67
1133	17.47	4.67	296	148	0	2.61
1136	17.51	4.67	299	147	0	2.13
1139	17.55	4.67	301	147	0	3.4
1142	17.75	4.68	304	147	0	2.67
1145	17.81	4.68	307	147	0	3.1
1148	17.97	4.67	310	147	0	2.71
1151	17.96	4.67	313	147	0.5	2.91
1154	18.05	4.68	315	147	0	2.9

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:

Cross Generating Station
Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
PM-1	**83.24**	8.46	4-24	1/14/2025	1019	26.5
Final Well Depth:	8.87	**depth to GW (ft)**		-2.84	**Screen submerged (ft)?**	
Drawdown:	0.41	**ft**		-0.88	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
944	17.54	5.15	5	147	18.1	3.12
948	16.72	5.25	6	139	10.5	2.49
954	16.47	5.23	6	127	10.2	2.21
959	16.25	5.2	7	120	9.7	2.86
1004	16.5	5.2	7	120	13.3	2.93
1009	16.8	5.19	8	115	11.4	1.6
1014	16.97	5.2	8	116	8	1.59
1019	17.08	5.2	8	115	7.9	1.54

Samples were collected by Melanie Goings and Dan Alexander
Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-5	**84.12**	7.1	**9-19**	5/13/2025	1039	21.95
Final GW Depth:	8	**depth to GW (ft)**		4.83	**Screen Submerged (ft)?**	
Drawdown:	0.9	**ft**		-0.02	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1005	20.54	4.43	205	1170	6.5	2.48
1010	20.97	4.26	231	1180	3.6	1.15
1015	21.02	4.21	242	1180	2.5	0.98
1020	21.2	4.16	251	1170	2.7	0.88
1025	21.19	4.16	255	1170	1.3	0.77
1030	21.39	4.17	258	1160	1.1	0.73
1033	21.21	4.19	259	1160	0.7	0.65
1036	21.2	4.18	260	1160	0.4	0.65
1039	21.17	4.2	261	1160	0.5	0.65

Samples were collected by Ashton Poole Aaron Hill

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-6	**83.23**	8.24	**10-20**	5/14/2025	1143	22.78

Final GW Depth:	8.24	**depth to GW (ft)**	3.69	**Screen Submerged (ft)?**	
Drawdown:	0	**ft**	-0.85	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**			
Ferrous Iron	+++	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1115	20.17	5.83	102	2150	0	1.18
1120	20.56	6.04	40	2180	8.6	0.78
1125	20.46	6.27	7	2100	5.3	0.73
1130	20.42	6.53	-31	1910	2	0.68
1135	20.12	6.59	-44	1890	0.9	0.6
1140	20.05	6.61	-48	1880	0.7	0.66
1143	20.06	6.62	-48	1870	0	0.62

Samples were collected by Ashton Poole Aaron Hill

Comments/Conditions:

DUP was taken at 1148

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-1	**91.89**	16.7	**14'-24'**	6/5/2025	1548	26.99
Final GW Depth:	17.4	**depth to GW (ft)**		-0.24	**Screen Submerged (ft)?**	
Drawdown:	0.7	**ft**		-0.53	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1520	23.73	4.39	128	2100	1.8	1.97
1525	23.66	4.36	141	2100	2.3	0.48
1530	23.13	4.34	147	2120	0.3	0.44
1535	22.65	4.33	151	2130	0.3	0.36
1540	22.08	4.34	159	2180	0.8	0.29
1545	22.12	4.33	162	2190	0.7	0.31
1548	21.95	4.33	168	2220	1.1	0.31

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-2	**84.88**	9.45	**8'-18'**	6/5/2025	1339	21.5
Final GW Depth:	9.91	**depth to GW (ft)**		1.61	**Screen Submerged (ft)?**	
Drawdown:	0.46	**ft**		-0.44	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1308	24.83	4.57	157	1260	6.2	1.68
1313	24.49	4.36	205	1290	0.8	0.82
1318	24.09	4.1	248	1320	0	0.43
1323	24	4.06	252	1330	0	0.34
1328	24.01	4.03	252	1320	0	0.29
1333	24.03	4.02	251	1320	0	0.24
1336	24.07	4.02	251	1320	0	0.24
1339	23.94	4.01	249	1320	0	0.24

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions: Dup was colleted @1344

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-3	**83.95**	8.06	**10-20**	6/5/2025	1145	23.16
Final GW Depth:	8.51	**depth to GW (ft)**		4.4	**Screen Submerged (ft)?**	
Drawdown:	0.45	**ft**		-0.7	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1117	25.11	4.55	163	3790	20.4	0.99
1122	25.02	4.6	147	3870	12.7	0.49
1127	24.79	4.54	151	3830	11.6	0.4
1132	24.76	4.51	155	3830	11.3	0.38
1137	24.68	4.43	161	3820	9.7	0.33
1142	24.6	4.39	165	3830	10	0.31
1145	24.7	4.38	166	3810	8.4	0.29

Samples were collected by: Ashton Poole & Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-4	**83.49**	7.24	**10-20**	6/5/2025	1047	23.04
Final GW Depth:	7.51	**depth to GW (ft)**		5.51	**Screen Submerged (ft)?**	
Drawdown:	0.27	**ft**		-0.29	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1016	22.63	3.78	224	1580	6.1	1.34
1021	23	3.83	258	1650	2.8	2.31
1026	23.15	3.79	258	1650	2.1	2.02
1031	23.43	3.79	259	1650	1.2	2.32
1036	23.56	3.8	257	1640	1.4	1.92
1041	23.8	3.81	256	1640	1.2	1.63
1044	23.94	3.81	255	1630	1.1	1.7
1047	24.13	3.82	255	1630	1.4	1.68

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-5	**84.12**	7.11	**9-19**	6/11/2025	1306	21.96
Final GW Depth:	8.44	**depth to GW (ft)**		4.74	**Screen Submerged (ft)?**	
Drawdown:	1.33	**ft**		-0.11	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1235	28.07	5.03	130	1110	7.2	0.98
1240	27.07	4.46	247	1140	3.6	0.41
1245	26.5	4.35	261	1130	4	0.32
1250	26.42	4.29	266	1120	4.1	0.25
1255	26.24	4.27	268	1120	4.2	0.25
1300	26.29	4.24	271	1110	3.4	0.21
1303	26.07	4.24	273	1110	4.1	0.2
1306	26.35	4.23	273	1110	3.6	0.2

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-6	**83.23**	8.25	**10-20**	6/11/2025	1200	22.8
Final GW Depth:	8.23	**depth to GW (ft)**		4.75	**Screen Submerged (ft)?**	
Drawdown:	-0.02	**ft**		0.2	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1126	23.48	5.75	16	2160	42.4	0.94
1131	23.48	5.81	16	2190	38.5	0.54
1136	23.3	6.06	-6	2160	38.3	0.46
1141	23.24	6.47	-65	2110	37.8	0.31
1146	23.35	6.56	-77	2000	35.9	0.27
1151	23.67	6.61	-81	1920	30.8	0.3
1154	23.77	6.61	-83	1860	27	0.3
1157	24	6.63	-84	1840	31.3	0.28
1200	24.24	6.64	-85	1810	31.3	0.27

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-7	85.48	10.06	10-20	6/5/2025	1450	23.51
Final GW Depth:	10.42	depth to GW (ft)		2.28	Screen Submerged (ft)?	
Drawdown:	0.36	ft		-1.17	Silt Buildup (ft)	
Ferric Iron	+++	mg/L				
Ferrous Iron	+++	mg/L				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1422	26.69	4.32	207	2380	0.1	1.01
1427	26.73	4.4	194	2420	1.1	0.64
1432	26.19	4.26	210	2510	3	0.42
1437	25.88	4.13	224	2560	3.4	0.33
1442	25.77	4.09	228	2520	2.8	0.27
1447	25.71	4.08	228	2520	1.8	0.27
1450	25.68	4.08	227	2490	1.3	0.25

Samples were collected by: Ashton Poole & Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-1	**84.3**	9.11	**38-48**	6/5/2025	1244	51.97
Final GW Depth:	9.15	**depth to GW (ft)**		31.45	**Screen Submerged (ft)?**	
Drawdown:	0.04	**ft**		-1.41	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1216	24.22	6.48	-76	1100	42.4	1.4
1221	24.76	6.76	-106	1020	35.1	0.74
1226	24.21	6.81	-113	1000	31.2	0.5
1231	23.77	6.83	-116	1000	23.2	0.45
1236	23.39	6.84	-118	1010	17.7	0.39
1241	23.23	6.84	-119	1010	15.7	0.36
1244	22.98	6.85	-120	1020	11.8	0.35

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-2	**96.73**	21.61	**24-34**	6/10/2025	1602	36.94
Final GW Depth:	21.86	**depth to GW (ft)**		4.82	**Screen Submerged (ft)?**	
Drawdown:	0.25	**ft**		-0.51	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1525	23.45	5.2	62	1550	8.8	0.78
1530	24.23	5.27	58	1540	7.6	0.54
1535	24.53	5.29	59	1530	6.4	0.61
1540	24.6	5.29	61	1520	5.4	0.9
1545	24.68	5.27	65	1520	4.7	0.74
1550	24.84	5.28	67	1530	5.3	0.3
1553	24.96	5.27	69	1520	5.2	0.28
1556	25.08	5.28	70	1520	5.1	0.34
1559	25.17	5.28	71	1510	5.2	0.37
1602	25.25	5.29	71	1500	5.4	0.36

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-3	**84.44**	9.31	**10-20**	6/11/2025	945	23.09
Final GW Depth:	9.36	**depth to GW (ft)**		3.13	**Screen Submerged (ft)?**	
Drawdown:	0.05	**ft**		-0.65	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
917	20.05	4.09	196	913	6.4	1.15
922	20.53	4	214	918	5.1	0.63
927	20.57	4	216	919	4.4	0.59
932	20.69	4.00	219	921	5.7	0.51
937	20.86	4.01	220	923	5.3	0.45
942	20.88	4.02	220	919	5.3	0.44
945	20.88	3.98	223	926	5.3	0.44

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-4	**84.82**	9.07	**42.5-52.5**	6/11/2025	1043	55.78
Final GW Depth:	9.11	**depth to GW (ft)**		35.81	**Screen Submerged (ft)?**	
Drawdown:	0.04	**ft**		-0.9	**Silt Buildup (ft)**	
Ferric Iron	1.03	**mg/L**				
Ferrous Iron	0.97	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1015	21.55	6.15	-14	1150	5.7	1.53
1020	21.75	6.18	-24	1220	3.8	0.92
1025	21.72	6.22	-26	1250	3.1	0.66
1030	22.03	6.25	-28	1280	2.8	0.56
1035	22.06	6.25	-28	1290	2.8	0.47
1040	22.02	6.26	-30	1300	2.6	0.46
1043	22.11	6.24	-29	1300	2.6	0.45

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMGP-5	**79.91**	4.87	**8-18**	6/11/2025	1400	21.26
Final GW Depth:	4.96	**depth to GW (ft)**		5.98	**Screen Submerged (ft)?**	
Drawdown:	0.09	**ft**		-0.41	**Silt Buildup (ft)**	
Ferric Iron	2.65	**mg/L**				
Ferrous Iron	2.55	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1335	24.44	6.15	25	474	6.4	1.26
1340	23.86	6.31	-42	470	3.6	0.58
1345	23.19	6.38	-47	464	5.5	0.45
1350	23.1	6.34	-47	459	5.9	0.4
1355	22.96	6.35	-49	457	5.5	0.36
1400	22.99	6.39	-56	456	4.9	0.34

Samples were collected byAshton Poole and Evan Amick

Comments/Conditions:

Cross Generating Station
Background Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CBW-1	**85.80**	9.97	**14-24**	6/3/2025	1021	26.74
Final GW Depth:	9.99	**depth to GW (ft)**		6.66	**Screen Submerged (ft)?**	
Drawdown:	0.02	**ft**		-0.11	**Silt Buildup (ft)**	
Ferric Iron:	*N/A	**mg/L**				
Ferrous Iron:	*N/A	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
953	24.15	4.81	82	244	1.6	3.12
958	24.41	4.62	193	252	0.8	1.5
1003	24.39	4.6	227	248	0.6	2.17
1008	24.33	4.62	247	246	1.4	1.97
1013	24.52	4.64	262	245	1	1.88
1018	24.62	4.67	272	244	2.2	1.85
1021	24.73	4.69	277	244	3.3	1.81

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

*Pump was turned off before iron was tested

Cross Generating Station
Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
PM-1	**83.24**	7.62	4-24	6/3/2025	N/A	26.34

Final Well Depth:	7.93	**depth to GW (ft)**	-2	**Screen submerged (ft)?**	
Drawdown:	0.31	**ft**	-0.72	**Silt Buildup (ft)**	
Ferric Iron	N/A	**mg/L**			
Ferrous Iron	N/A	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
904	19.33	4.99	58	209	18.4	1.08
909	19.96	4.99	43	204	24.3	0.91
914	20.54	4.94	44	204	12.2	0.71
919	21.04	5.09	36	206	2.2	0.63
924	21.5	5.12	36	199	1.2	0.57
929	22.02	5.18	33	196	0.4	0.52
932	22.33	5.21	31	196	0.1	0.49

Samples were collected by **Ashton Poole and Evan Amick**

Comments/Conditions:

****Redo of Field Data due to calibration failure of Horriba on 6/2/25**

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-5	**84.12**	7.6	**9-19**	11/5/2025	1223	22.02
Final GW Depth:	8.27	**depth to GW (ft)**		4.33	**Screen Submerged (ft)?**	
Drawdown:	0.67	**ft**		-0.09	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1147	21.52	4.21	303	1180	45.2	2.21
1152	22.42	4	376	1140	64.8	2.72
1157	22.51	3.86	399	1130	44.4	2.74
1202	22.9	3.81	402	1130	16.5	2.48
1207	23.42	3.83	392	1120	6.7	2.2
1212	23.55	3.83	390	1110	5.2	2
1217	24.17	3.85	383	1090	3.4	1.76
1220	24.01	3.86	376	1100	2.4	1.67
1223	24.5	3.87	376	1100	1.8	1.55

Samples were collected by Catie Gill and Jordan Rajcok

Comments/Conditions:

Cross Generating Station
Closed Gypsum Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CGYP-6	**83.23**	8.3	**10-20**	11/5/2025	1015	22.86
Final GW Depth:	8.29	**depth to GW (ft)**		3.63	**Screen Submerged (ft)?**	
Drawdown:	-0.01	**ft**		-0.93	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**				
Ferrous Iron	+++	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1000	20.29	6.43	-34	1890	40.9	1.55
1005	19.9	6.44	-36	1900	10.5	1.41
1010	19.78	6.46	-38	1910	5	1.27
1015	19.77	6.46	-37	1910	4	1.18

Samples were collected by Catie Gill and Jordan Rajcok

Comments/Conditions:
DUP taken @ 1020