2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT BOTTOM ASH POND CROSS GENERATING STATION

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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 Bottom Ash 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).

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

The CGS Bottom Ash Pond is currently maintained in a decanted and non-operational status and is undergoing closure by removal. At the start of the current annual reporting period (January 1, 2025), the CGS Bottom Ash Pond continued to operate under a corrective action monitoring program in accordance with § 257.98. Statistically significant levels (SSLs) of beryllium in monitoring wells CAP-1, and CAP-9; cobalt in monitoring wells CAP-1, CAP-3, CAP-5, CAP-7, and CAP-9; and lithium in monitoring wells CAP-1 and CAP-9 were identified for both the January and June 2025 sampling events.

Previously, an assessment of corrective measures was initiated on April 15, 2019, due to the presence of Appendix IV SSLs. The assessment of corrective measures report was completed on September 11, 2019. A public meeting was held on December 3, 2019, to discuss six remedial alternatives per § 257.96(e). All CCR and non-CCR wastewater inflows to the CGS Bottom Ash Pond ceased as of August 31, 2020. An addendum to the assessment corrective measures report was completed on September 30, 2020, to address radium which became an additional SSL in 2020. A remedy was selected pursuant to § 257.97 and the remedy selection report was completed on September 30, 2020. Remedial activities, specifically the closure by removal component of the remedy, were initiated in 2020 and are ongoing.

At the end of the current annual reporting period (December 31, 2025), the Bottom Ash Pond remained in the corrective action groundwater monitoring program.

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

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a) and (c)

All CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under § 257.90 through § 257.98.

Once a groundwater monitoring system and groundwater monitoring program has been established at the CCR unit as required by this subpart, the owner or operator must conduct groundwater monitoring and, if necessary, corrective action through the active life and post-closure care period of the CCR unit.

The Bottom Ash Pond at CGS is an existing federally and state regulated CCR surface impoundment no longer receiving CCR and non-CCR inflows and undergoing closure by removal. As such, it continues to be

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 Unit 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 the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report documents the activities completed in 2025 for the CGS Bottom Ash Pond as required by the subject regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.98, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

In 2025, the corrective action groundwater monitoring program, initiated in 2020, continued in accordance with § 257.98. Consistent with previous results, beryllium, cobalt, and lithium continue to be the Appendix IV constituents present in groundwater at SSLs above the GWPS. An SSL for radium was not detected in 2025 even though it had been detected in a prior year.

In 2025, the CGS Bottom Ash Pond continued with closure activities by removal of CCR as outlined in the Closure Plan and the Remedy Selection Report dated September 30, 2020. The selected remedy for groundwater remediation is closure by removal (CBR) of CCR followed by monitored natural attenuation (MNA). The removed CCR is either beneficially used or transferred to an on-site landfill. This remedy eliminates the source through removal of CCR and any affected Bottom Ash Pond infrastructure, such as the pond's liner and protective layer, thereby meeting the source control requirement stated in the CCR Rule. Over time, removing the source material should allow concentrations of these constituents in downgradient groundwater to attenuate.

The other component of the selected remedy will be to address the presence of beryllium, cobalt, lithium, and, if still applicable, radium-226/228 in the groundwater above the GWPS. Groundwater remediation will be addressed through MNA, the success of which will be monitored through studies and utilizing adaptive site management as needed. MNA, in combination with source removal, is intended to reduce concentrations of beryllium, cobalt, lithium, and if needed, radium-226/228 in groundwater at the Bottom Ash Pond boundary, thereby attaining the groundwater protection standards and addressing limited and local CCR-related impacts.

Further development of the corrective action groundwater monitoring program for MNA was completed by reevaluating the current CGS Groundwater Monitoring Plan (GMP). This evaluation concluded that the assessment monitoring protocol currently being implemented is currently sufficient to meet the needs of the corrective action groundwater monitoring program, which is consistent with § 257.98(a)(1)(i) and thus will continue to be implemented during the regularly scheduled semi-annual groundwater monitoring

events. It is anticipated that the corrective action groundwater monitoring program will be reevaluated following completion of source removal to ensure ongoing adequacy and effectiveness of the MNA phase as an adaptive site management approach. In the interim, groundwater trends and other data evaluations will be monitored closely to document changing constituent concentrations.

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), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];
    - Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)].
- Collected and analyzed two rounds of groundwater monitoring (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 and June sampling events to determine statistically significant exceedance of GWPS for Appendix IV 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.
- Continued to further characterize the nature and extent of Appendix IV constituents in groundwater and refine the groundwater flow and solute transport model to predict the downgradient extent of the plume on an as-needed basis.
- 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 Sampling and Analysis 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.
- The CGS Groundwater Monitoring Plan was updated in December 2025 to reflect additional nature and extent groundwater monitoring wells and well locations.
- Maintained a reduced hydraulic head by ongoing dewatering of the CGS Bottom Ash Pond for CBR activities throughout 2025.

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 include the following:

- Prepare the 2025 annual report; place it in the record as required by § 257.105(h)(1); notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring consistent with § 257.98(a)(1) and § 257.95(d)(1) and in accordance with the CGS GMP.
- Complete statistical evaluations of the sampling events to determine statistically significant exceedances of GWPS for Appendix IV in accordance with § 257.93(h)(2).
- Conduct additional nature and extent monitoring or related activities, as necessary, including possible installation of additional monitoring well(s), in accordance with § 257.95(g)(1).
- Continue the potentiometric surface characterization of the uppermost aquifer given changing site.
- Maintain a reduced hydraulic head on the Bottom Ash Pond through dewatering activities to facilitate CBR.
- Continue implementation of the CBR phase of the selected remedy.
- 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 locations of the CCR unit and associated upgradient and downgradient monitoring wells for the Bottom Ash Pond 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 § 257.95(b) and § 257.95(d)(1), at least two independent samples from each background and downgradient monitoring well were collected and analyzed in 2025. 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 Bottom Ash Pond is presented in Table 1 of this report. In addition, as required by § 257.95(d)(3), Table 1 includes the groundwater protection standards established under § 257.95(d)(2). Laboratory analytical 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 remained in corrective action monitoring for the duration of 2025. A summary of the evolution of the monitoring programs is provided in this section.

As required by § 257.93(h), a statistical analysis of the Appendix III constituents was completed on January 15, 2018. For the downgradient monitoring wells CAP-1, CAP-3, CAP-5, CAP-7, and CAP-9, multiple SSIs over background for the respective Appendix III constituents were identified. An evaluation of alternate sources was initiated and completed on April 13, 2018, as provided in § 257.94(e)(2). A source causing the SSI over background levels other than the CCR unit was not identified at that time and an assessment monitoring program was initiated on July 16, 2018.

As required by § 257.93(h)(2), the statistical evaluation of the detected Appendix IV constituents identified SSLs of Appendix IV constituents above GWPS. Therefore, per § 257.95(g)(3), an assessment of corrective measures and nature and extent evaluation was initiated on April 15, 2019, to evaluate the horizontal and vertical nature and extent of the SSLs downgradient of the Bottom Ash Pond. The Corrective Measures Assessment (CMA) report considered the presence and distribution of beryllium, cobalt, and lithium in the uppermost aquifer, the configuration of the CGS Bottom Ash Pond, its operational history, hydrogeologic setting, and the results of the evaluation of the nature and extent that were available at the time of the CMA was created.

During the February 2020 sampling event, radium was detected above the GWPS in monitoring well CAP-5. An addendum to the initial CMA report was prepared and placed in the operating record on September 30, 2020. This addendum reevaluated the proposed corrective measures alternatives to address the presence of radium. Radium will continue to be evaluated during subsequent semi-annual sampling events. The Remedy Selection Report was prepared and placed in the operating record on September 30, 2020, which initiated the transition to a corrective action monitoring program.

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 was considered to represent an SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for all downgradient wells and constituents. Based on the statistical evaluation of the 2025

groundwater sampling events, SSLs above GWPS were identified at the CGS Bottom Ash Pond (beryllium, cobalt, and lithium), consistent with previous findings.

Further development of the corrective action groundwater monitoring program was completed by reevaluating the current GMP. This evaluation concluded that the assessment monitoring protocol being implemented was sufficient at this time to meet the needs of the corrective action groundwater monitoring program and evaluate the performance of the selected remedy. Thus, it will continue to be implemented during the regularly scheduled semi-annual groundwater monitoring events. This is consistent with § 257.98(a)(1)(i). It is anticipated that the corrective action groundwater monitoring program will be reevaluated around the time that source removal is complete to ensure ongoing adequacy and effectiveness of the MNA phase.

In 2025, consistent with previous results, beryllium, cobalt, and lithium are present in groundwater at SSLs above the GWPS in one or more downgradient wells. For both the January and June sampling events, beryllium was an SSL at CAP-1 and CAP-9; cobalt was an SSL at CSP-1, CAP-3, CAP-5, CAP-7, and CAP-9; and lithium was an SSL at CAP-1 and CAP-9. All other Appendix IV constituents continue to meet the GWPS.

The CGS Bottom Ash Pond's Remedy Selection Report dated September 30, 2020, specified closure by removal of the CCR material followed by monitored natural attenuation of beryllium, cobalt, lithium, and radium 226/228 in groundwater. Groundwater modeling results predict concentrations of beryllium, cobalt, lithium, and radium 226/228 will decline after the CCR source removal is complete. Excavation of the pond for CCR source removals has been ongoing, reducing the volume of CCR material in the pond dramatically and creating dynamic site conditions. During closure activities, variability, including potential short-term increases in the concentrations of Appendix IV SSLs, is possible due to changing site conditions, but these concentrations are expected to decrease once closure is complete. Of note, in the January sampling event, barium in CAP-5; fluoride in CAP-1, CAP-5, CAP-9; and lead in CAP-9 were detected above the interwell UTL but were not identified as an SSL after the GWPS was compared to the lower confidence limit (LCL) of the central tendency of the sample population. In the June sampling event, barium in CAP-5; fluoride in CAP-1, CAP-3, CAP-5, CAP-7, and CAP-9; lead in CAP-9; and radium-226 and -228 in CAP-5, CAP-7, and CAP-9 were detected above the interwell UTL but were not identified as an SSL after the GWPS was compared to the LCL. Performance of the selected remedy will continue to be monitored after subsequent semi-annual sampling events and based on the results of the corresponding statistical evaluations.

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 § 257.98 of the CCR Rule.

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

TABLES

Table 1 - Summary of Analytical Results
Cross Generating Bottom Ash Pond Corrective Action Monitoring 2025

Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number		Appendix III Constituents							Appendix IV Constituents																	Field Parameters							
					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	—	—	—	26.0	10.0	2000	4.00	5.00	100	6.00	4.00	15.0	40.0	2.00	100	—	—	10.3	50.0	2.00	—	—	—	—	—	—	—	—
Site Background Wells																																			
PM-1	Background	1/14/2026	A021206		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	6/3/2026	A034934		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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CBM-1	Background	1/14/2026	A021198		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
CBM-1	Background	6/3/2026	A034896		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	75.93	4.69	244	24.73	277	3.3	1.81
CBM-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
Bottom Ash Pond Wells																																			
CAP-1	Corrective Action	1/14/2026	A021161		533	338	168	1.64	759	1468	4.40	5.0	<5.0	19.6	7.3	<0.5	<5.0	23.3	1.64	1.4	173	<0.2	<5.0	0.264	1.38	1.64	<10.0	<1.0	7.61	75.09	4.40	1560	17.24	103	0	2.47
CAP-1	Corrective Action	6/3/2026	A034880		506	339	186	1.16	813	1510	4.58	5.9	<5.0	19.1	6.9	<0.5	<5.0	23.6	1.16	1.7	184	0.200	<5.0	0.0289	1.01	1.04	<10.0	<1.0	7.15	75.55	4.58	1810	24.23	112	0.300	0.3
CAP-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
CAP-3	Corrective Action	1/14/2026	A021163		4650	504	378	0.101	628	2185	6.39	5.7	<5.0	68.4	<0.5	<0.5	<5.0	24.8	0.101	<1.0	11.2	<0.2	<5.0	0.365	1.78	2.15	<10.0	<1.0	16.75	74.74	6.39	2690	20.49	3.00	0	2.24
CAP-3	Corrective Action	6/3/2026	A034882		4000	482	427	<0.10	609	3235	6.46	5.9	<5.0	61.8	<0.5	<0.5	<5.0	24.5	<0.10	<1.0	10.4	0.200	<5.0	0.425	1.05	1.48	<10.0	<1.0	16.15	75.34	6.46	2390	31.41	8.00	12.9	0.25
CAP-3	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
CAP-4	CMA/NE	1/16/2026	A021164		10700	739	953	<0.066	851	3028	6.47	5.1	<5.0	106	<0.5	<0.5	<5.0	<0.5	<0.066	<1.0	39.5	<0.2	<5.0	0.433	1.29	1.72	<10.0	<1.0	17.24	74.53	6.47	4390	16.32	-73	1.50	1.6
CAP-4	CMA/NE	6/3/2026	A034883		11100	774	989	<0.10	892	4260	6.67	<5.0	<5.0	110	<0.5	<0.5	<5.0	0.56	<0.10	<1.0	40.0	0.200	<5.0	0.419	0.881	1.30	<10.0	<1.0	16.51	75.26	6.67	3940	30.11	-71.0	1.60	0.29
CAP-4	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
CAP-5	Corrective Action	1/15/2026	A021165		22.6	126	471	0.552	3.73	850.0	3.86	<5.0	<5.0	1220	3.9	<0.5	<5.0	12.2	0.552	7.1	17.0	<0.2	<5.0	1.20	7.28	8.48	<10.0	<1.0	17.44	74.34	3.86	1140	17.68	274	0	2.27
CAP-5	Corrective Action	6/4/2026	A034884		20.7	123	533	0.54	3.04	1275	3.84	5.2	<5.0	1230	3.5	<0.5	<5.0	13.0	0.54	4.9	15.0	0.200	<5.0	5.78	12.5	18.3	<10.0	<1.0	16.86	74.92	3.84	1790	23.44	262	4.50	0.24
CAP-5	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
CAP-8	CMA/NE	1/16/2026	A021168		3600	525	646	<0.066	409	1945	6.68	<5.0	<5.0	245	<0.5	<0.5	<5.0	<0.5	<0.066	<1.0	15.2	<0.2	<5.0	1.18	0.472	1.65	<10.0	<1.0	17.81	74.01	6.68	2830	17.19	-63	2.80	1.58
CAP-8	CMA/NE	6/4/2026	A034886		3100	414	546	<0.10	283	2112	6.77	<5.0	<5.0	245	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	10.9	<0.200	<5.0	0.910	1.17	2.08	<10.0	<1.0	17.42	74.4	6.77	2440	21.70	-97.0	5.80	0.53
CAP-8	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
CAP-7	Corrective Action	1/16/2026	A021167		22700	699	1300	<0.165	1060	3528	5.73	<5.0	<5.0	36.6	<0.5	<0.5	<5.0	6.0	<0.165	<1.0	<5.0	<0.2	<5.0	0.514	4.06	4.57	<10.0	<1.0	16.91	74.73	5.73	5760	17.85	19.0	1.40	1.41
CAP-7	Corrective Action	6/4/2026	A034886		21500	551	1090	<0.10	928	3542	5.80	<5.0	<5.0	27.4	<0.5	<0.5	<5.0	6.2	<0.10	<1.0	<5.0	<0.200	<5.0	0.891	2.39	3.28	<10.0	<1.0	16.44	75.2	5.80	4280	25.02	4.00	1.70	0.34
CAP-7	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
CAP-8	CMA/NE	1/16/2026	A021168		20900	949	1210	0.392	1280	4192	6.48	7.8	<5.0	48.7	<0.5	<0.5	<5.0	32.3	0.392	<1.0	102	<0.2	<5.0	0.669	0.517	1.19	<10.0	<1.0	17.98	73.63	6.48	6110	19.80	-52	2.40	1.41
CAP-8	CMA/NE	6/4/2026	A034887		20900	974	1310	<0.10	1380	5260	6.61	<5.0	<5.0	48.2	<0.5	<0.5	<5.0	29.1	<0.10	<1.0	101	<0.200	<5.0	0.364	0.135	0.499	<10.0	<1.0	17.53	74.08	6.61	5270	26.97	-65.0	4.50	0.34
CAP-8	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
CAP-9	Corrective Action	1/16/2026	A021169		9670	606	1090	4.46	771	2962	3.50	5.9	7.2	30.2	20.2	<0.5	<5.0	43.8	4.46	15.0	104	<0.2	<5.0	0.870	3.72	4.59	<10.0	<1.0	17.22	74.37	3.50	4720	19.41	318	6.40	1.51
CAP-9	Duplicate	1/16/2026	A021180		9210	581	1080	4.81	734	3015	***	6.0	7.0	30.1	19.7	<0.5	<5.0	43.5	4.81	14.7	103	<0.2	<5.0	0.845	4.36	5.21	<10.0	<1.0	***	***	***	***	***	***	***	***
CAP-9	Corrective Action	6/4/2026	A034888		9930	623	1220	2.08	802	3845	3.74	<5.0	8.1	27.4	18.4	<0.5	<5.0	47.0	2.08	14.6	98.6	<0.200	<5.0	0.234	4.27	4.50	<10.0	<1.0	14.86	76.73	3.74	4380	27.29	305	3.60	0.25
CAP-9	Duplicate	6/4/2026	A034889		9690	640	1220	2.04	803	3815	***	<5.0	8.2	29.1	18.3	<0.5	<5.0	48.3	2.04	15.2	96.3	<0.200	<5.0	0.690	3.07	3.76	<10.0	<1.0	***	***	***	***	***	***	***	***
CAP-9	total samples				4	4	4	4	4	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2
CAP-10	CMA/NE	1/16/2026	A021191		44.2	81.0	23.7	0.111	5.20	275.0	7.20	5.5	<5.0	86.6	<0.5	<0.5	<5.0	<0.5	0.111	<1.0	5.70	<0.2	<5.0	1.23	1.07	2.30	<10.0	<1.0	22.00	73.68	7.20	300	18.74	-132	0	1.34
CAP-10	CMA/NE	6/4/2026	A034890		99.9	89.4	27.1	<0.10	8.66	340.0	6.95	<5.0	<5.0	86.4	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	7.75	<0.200	<5.0	0.854	1.08	1.93	<10.0	<1.0	21.52	74.16	6.95	425	27.21	-122	3.90	0.45
CAP-10	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
CCMAP-1	CMA/NE	1/30/2026	A021187		11.3	60.7	5.61	<0.1	1.33	210.0	7.34	<5.0	<5.0	44.8	<0.5	<0.5	<5.0	0.64	<0.1	<1.0	5.22	<0.2	<5.0	1.04	1.10	2.14	<10.0	<1.0	5.94	74.27	7.34	315	20.31	-65	1.50	0.56
CCMAP-1	CMA/NE	6/18/2026	A034896		11.2	60.4	5.98	<0.10	<2.00	187.5	6.93	<5.0	<5.0	64.2	<0.5	<0.5	<5.0	0.93	<0.10	<1.0	5.37	<0.2	<5.0	0.115	0.433	0.548	<10.0	<1.0	4.66	75.55	6.93	345	20.10	-128	0	0.53
CCMAP-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
CCMAP-2	CMA/NE	1/30/2026	A021188		13.9	3.9	5.91	<0.1	0.893	37.50	5.43	<5.0	<5.0	15.9	<0.5	<0.5	<5.0	0.63	<0.1	<1.0	<5.0	<0.2	<5.0	0.554	-0.115	0.554	<10.0	<1.0	7.66	73.58	5.43	47.0	18.49	283	6.80	1.76
CCMAP-2	CMA/NE	6/12/2026	A034897		13.1	7.1	5.64	<0.10	<2.00	50.00	5.34	<5.0	<5.0	15.3	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	<5.0	<0.2	<5.0	0.443	0.113	0.556	<10.0	<1.0	6.59	74.65	5.34	56.0	24.98	139	1.90	0.7
CCMAP-2	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
CCMAP-3	CMA/NE	1/21/2026	A021189		21500	974	1190	<0.1	1330	4402	6.46	6.1	<5.0	54.5	<0.5	<0.5	<5.0	1.5	<0.1	<1.0	48.3	<0.2	<5.0	0.714	1.24	1.95	<10.0	<1.0	8.09	73.82	6.46	5950	15.93	-11	0	2.04
CCMAP-3	CMA/NE	6/12/2026	A034898		20700	978	1270	<0.10	1400	4975	5.05	<5.0	<5.0	51.3	<0.5	<0.5	<5.0	1.2	<0.10	<1.0	50.1	<0.2	<5.0	0.537	0.206	0.743	<10.0	<1.0	7.04	74.87	5.05	2910	29.87	176	4.60	0.28
CCMAP-3	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
CCMAP-4	CMA/NE	2/3/2026	A021170		17.3	75.5	41.0	0.104	2.48	295.0	6.41	5.4	<5.0	203	<0.5	<0.5	<5.0	5.8	0.104	<1.0	<5.0	<0.2	<5.0	0.950	0.714	1.66	<10.0	<1.0	6.72	75.11	6.41	473	17.68	16.0	1.03	
CCMAP-4	Duplicate	2/3/2026	A021171		17.4	75.5	39.6	0.104	2.45	310.0	***	5.6	<5.0	196	<0.5	<0.5	<5.0	6.4	0.104	<1.0	<5.0	<0.2	<5.0	0.741	1.43	2.17	<10.0	<1.0	***	***	***	***	***	***	***	***
CCMAP-4	CMA/NE	6/11/2026	A034899		21.4	78.1	41.2	0.10	2.69	305.0	6.14	<5.0	<5.0	192	<0.5	<0.5	<5.0	7.2	0.10	<1.0	<5.0	<0.2	<5.0	0.188	0.839	1.03	<10.0	<1.0	6.44	75.39	6.14	498	21.07	-10.0	0.900	0.36
CCMAP-4	Duplicate	6/11/2026	A034900		20.9	79.0	41.0	0.11	2.79	296.0	***	<5.0	<5.0	195	<0.5	<0.5	<5.0	7.2	0.11	<1.0	<5.0	<0.2	<5.0	0.190	1.00	1.90	<10.0	<1.0	***	***	***	***	***	***	***	***
CCMAP-4	total samples				4	4	4	4	4	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2
CCMAP-5	CMA/NE	2/3/2026	A021172		13.6	127	18.4	0.171	11.9	410.0	6.78	<5.0	<5.0	217	<0.5	<0.5	<5.0	3.6	0.171	<1.0	10.9	<0.2	<5.0	0.603	0.784	1.39	<10.0	<1.0	8.23	75.48	6.78	658	19.00	92.0	0	0.82
CCMAP-5	CMA/NE	6/11/2026	A034901		15.3	130	22.6	<0.10	15.7	797.5	6.49	<5.0	<5.0	214	<0.5	<0.5	<5.0	6.7	<0.10	<1.0	12.8	<0.2	<5.0	0.499	0.723	1.22	<10.0	<1.0	7.62	76.09	6.49	743	20.48	-4.00	1.00	0.32
CCMAP-5	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
CCMAP-6	CMA/NE	1/29/2026	A021173		15.1	16.7	1.28	0.36	57.1	105.0	4.58	<5.0	<5.0	44.6	3.7	<0.5	<5.0	27.9	0.36	3.2	<5.0	<0.2	<5.0	0.278	1.83	2.11	<10.0	<1.0	9.61	74.8	4.58	166	18.55	413	0	0.98
CCMAP-6	CMA/NE	6/12/2026	A034902		14.8	15.6	<2.00	0.26	54.5	110.0	5.18	<5.0	<5.0	39.6	3.7	<0.5	<5.0	28.4	0.26	3.6	<5.0	<0.2	<5.0	0.781	0.211	0.992	<10.0	<1.0	9.11	75.3	5.18	97.0	23.81	373	3.80	1.19
CCMAP-6	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
CCMAP-7	CMA/NE	1/21/2026	A021174		10.5	16.4	8.71	0.16	1.62	65.00	5.74	<5.0	<5.0	41.8	<0.5	<0.5	<5.0	6.4	0.16	<1.0	<5.0	<0.2	<5.0	0.516	0.958	1.47	<10.0	<1.0	8.02	73.55	5.74	94.0	11.25	196	0	2.67
CCMAP-7	CMA/NE	6/12/2026	A034903		10.3	16.5	9.03	<0.10	<2.0	95.00	5.07	<5.0	<5.0	42.7	<0.5	<0.5	<5.0	7.2	<0.10	<1.0	<5.0	<0.2	<5.0	0.308	0.352	0.660	<10.0	<1.0	6.99	74.58	5.07	1.00	29.81	48.0	1.10	6.82
CCMAP-7	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
CCMAP-8	CMA/NE	1/30/2026	A021176		11.3	1.3	4.73	<0.1	0.492	85.00	4.98	<5.0	<5.0	20.0	<0.5	<0.5	<5.0	11.1	<0.1	<1.0	6.17	<0.2	<5.0	0.286	0.261	0.547	<10.0	<1.0	8.36	74.53	4.98	34.0	15.61	306	7.20	1.65
CCMAP-8	CMA/NE	6/16/2026	A034904		10.9	1.4	5.12	<0.10	<2.0	45.00	4.95	8.7	<5.0	20.1	<0.5	<0.5	<5.0	7.9	<0.10	<1.0	5.66	<0.2	<5.0	1.35	0.577	1.93	<10.0	<1.0	7.31	75.58	4.95	37.0	24.96	197	10.3	0.32
CCMAP-8	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
CCMAP-8	CMA/NE	1/29/2026	A021178		19.1	4.3	12.2	<0.1	0.729	50.00	4.89	<5.0	<5.0	97.2	<0.5	<0.5	<5.0	12.6	<0.1	<1.0	<5.0	<0.2	<5.0	0.509	1.00	1.51	<10.0	<1.0	7.60	74.91	4.89	88.0	20.54	529	0	0.66
CCMAP-9	CMA/NE	6/16/2026	A034905		17.1	4.6	12.7	<0.10	2.87	50.00	4.51	9.9	<5.0	91.5	<0.5	<0.5	<5.0	12.0	<0.10	<1.0	<5.0	<0.2	<5.0	0.582	0.638	1.62	<10.0	<1.0	6.74	75.77	4.51	85.0	25.80	275	14.4	0.28
CCMAP-8	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
CCMAP-10	CMA/NE	1/30/2026	A021177		11.7	1.6	4.98	<0.1	1.11	32.50	5.04	<5.0	<5.0	28.9	<0.5	<0.5	<5.0	7.8	<0.1	<1.0	<5.0	<0.2	<5.0	0.338	1.10	1.44	<10.0	<1.0	7.34	74.46	5.04	37.0	17.70	265	0	1.85
CCMAP-10	CMA/NE	6/16/2026	A034906		<10.0	2.2	5.62	<0.10	<2.0	52.50	4.79	13.1	<5.0	32.6	<0.5	<0.5	<5.0	9.3	<0.10	<1.0	5.59	<0.2	<5.0	0.308	0.793	1.10	<10.0	<1.0	6.41	75.39	4.79	45.0	23.93	123	4.10	0.25
CCMAP-10	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
CCMAP-11	CMA/NE	1/30/2026	A021178		10.4	7.9	6.00	<0.1	1.14	35.00	5.60	5.2	<5.0	28.9	<0.5	<0.5	<5.0	1.3	<0.1	<1.0	<5.0	<0.2	<5.0	0.456	0.364	0.820	<10.0	<1.0	6.12	74.17	5.60	68.0	17.85	147	0	0.68
CCMAP-11	CMA/NE	6/16/2026	A034907		12.0	4.4	5.55	<0.10	<2.0	50.00	6.94	12.0	<5.0	20.3	<0.5	<0.5	<5.0	2.2	<0.10	<1.0	<5.0	<0.2	<5.0	0.942	1.09	2.03	<10.0	<1.0	4.69	75.6	6.94	47.0	27.03	91.0	0	0.56
CCMAP-11	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
CCMAP-12	CMA/NE	2/3/2026	A021179		19.6	24.5	10.6	<0.100	1.93	175.0	6.26	<5.0	<5.0	85.4	<0.5	<0.5	<5.0	0.72	<0.100	<1.0	15.4	<0.2	<5.0	0.641	0.689	1.33	<10.0	<1.0	6.54	74.04	6.26	198	16.34	85.0	16.0	1.69
CCMAP-12	CMA/NE	6/12/2026	A034908		18.3	26.0	10.5	<0.10	<2.00	170.0	5.90	<5.0	<5.0	86.5	<0.5	<0.5	<5.0	<0.5	<0.10	<1.0	15.5	<0.2	<5.0	0.449	0.665	1.11	<10.0	<1.0	5.33	75.25	5.90	191	24.32	24.0	1.60	0.3
CCMAP-12	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
CCMAP-13	CMA/NE	2/3/2026	A021180		11700	672	738	0.102	784	3170	6.63	5.9	<5.0	50.4	<0.5	<0.5	<5.0	10.1	0.102	<1.0	31.6	<0.2	<5.0	0.832	0.0723	0.904	<10.0	<1.0	6.24	73.87	6.63	3990	16.26	-56	11.0	10.0
CCMAP-13	CMA/NE	6/12/2026	A034909		10800	668	808	0.12	778	3538	6.48	<5.0	<5.0	47.6	<0.5	<0.5	<5.0	9.3	0.12	<1.0	31.8	<0.2	<5.0	0.903	0.902	1.81	<10.0	<1.0	5.19	74.92	6.48	3160	26.47	-64.0	2.90	0.31
CCMAP-13	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
CCMAP-14	CMA/NE	1/21/2026	A021181		10.9	41.4	13.0	<0.1	1.87	145.0	5.99	<5.0	<5.0	67.3	<0.5	<0.5	<5.0	14.2	<0.1	<1.0	<5.0	<0.2	<5.0	0.823	0.731	1.55	<10.0	<1.0	5.09	73.55	5.99	196	12.34	112	1.81	1.81
CCMAP-14	CMA/NE	6/12/2026	A034910		30.0	38.8	12.5	<0.10	<2.00	155.0	5.35	<5.0	<5.0	74.5	<0.5	<0.5	<5.0	12.0	<0.10	<1.0	<5.0	<0.2	<5.0	0.340

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

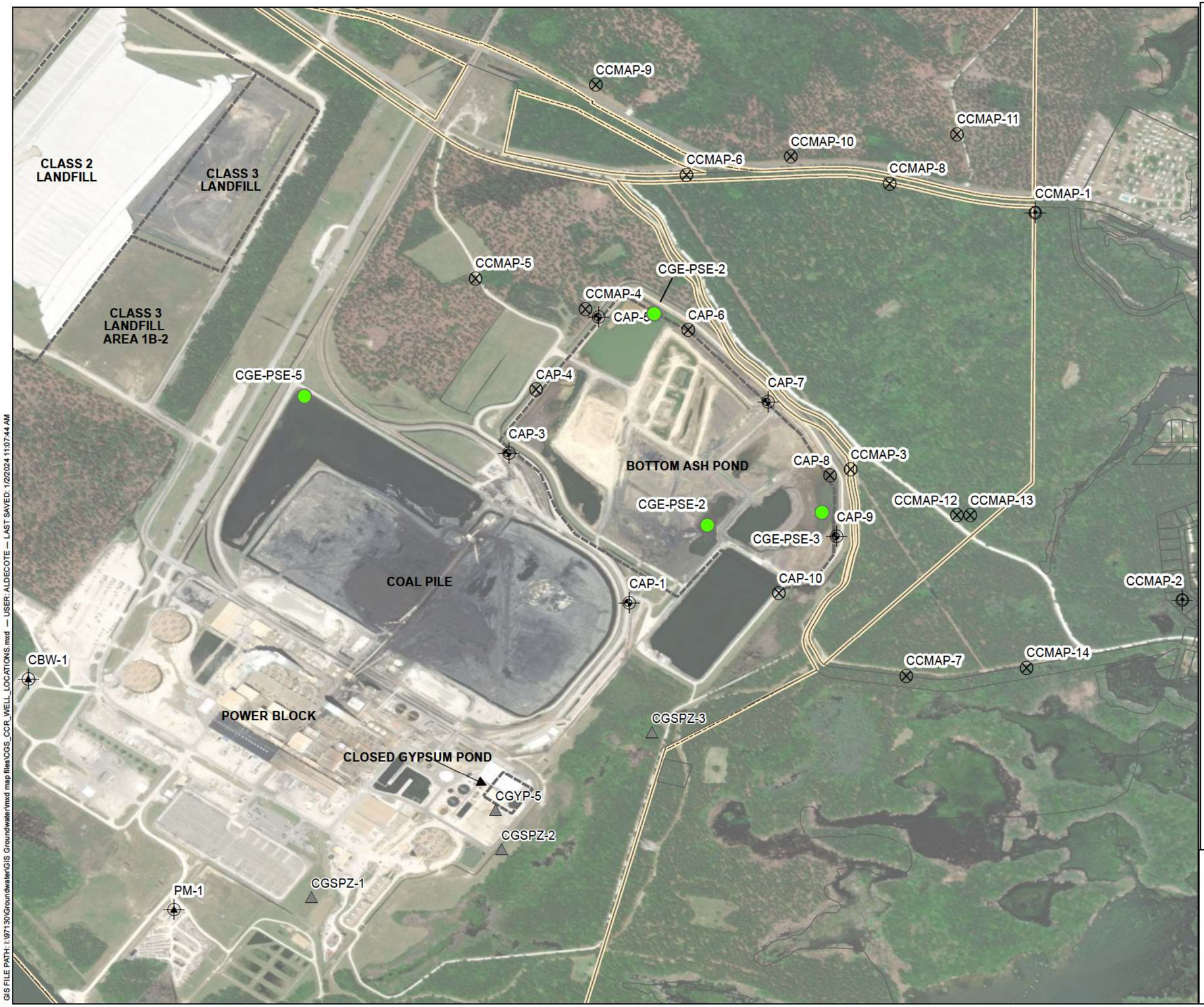
Notes:

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
- ASH POND MONITORING WELL
- ASH POND NATURE & EXTENT WELL
- ASH 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

0 870 1,740
SCALE IN FEET

SANTEE COOPER
CROSS GENERATING STATION
PINEVILLE, SOUTH CAROLINA

LOCATION OF BOTTOM ASH 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: 1/2/2024 11:07:44 AM

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	

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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

CAP-8

CCMAP-3

CGS-PSE-3
76.93

CAP-9
74.6

CCMAP-13

CCMAP-12
73.94

CAP-2

CGS-PSE-2
76.86

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

CGS-PSE-6
74.53

CBW-1
75.01

GMPSW-CPD-1SWE
78.24

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

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
0.027ft/day
0.039ft/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
ROSS STATION
CLASS 2 LANDFILL
CLASS 3 LANDFILL
ANGELS LANDING
BOTTOM ASH POND
COAL PILE
ASH POND
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	

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LAKE MARION
74.01

LAKE MOULTRIE
74.71

DIVERSION CANAL

BULLTOWN DITCH

CLASS 2 LANDFILL

CLASS 3 LANDFILL

BOTTOM ASH POND

COAL PILE

DECANT POND

CLOSED GYPSUM POND

CLOSED GYPSUM POND

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

POZ-7
75.37

CLFIB-5
74.75

CLFIB-5D

CAP-14

CAP-13
74.26

CLFIB-4
75.01

CLFIB-3
75.25

CLFIB-2
75.43

CLFIB-1
75.60

CCMAP-9
76.88

CCMAP-11
72.88

CCMAP-6
73.67

CCMAP-10
73.46

CCMAP-8
73.72

CCMAP-1
73.36

CCMAP-5
75.11

CCMAP-4
74.84

CGS-PSE-4
DRY*

CAP-6

CAP-5
74.72

CAP-4

CAP-7
74.33

CGS-PSE-5
77.13

CAP-3
75.37

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

CAP-1
75.54

CAP-12

CCMAP-7
73.97

CCMAP-14
73.85

CAP-11
75.94

CGSPZ-3
74.05

CCMGP-5
74.15

CGS-PSE-6
74.54

CBW-1
75.66

GMPSW-CPD-1SWE
77.76

CGYPSW-8-WSE
74.94

CGYPSW-7-WSE
74.91

PM-1
75.20

CGSPZ-1
75.09

GMPSW-WET-2SWE
74.52

DIVERSION CANAL
69.77

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

CGYP-5
76.60

CCMGP-2
74.77

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

0.343ft/day

0.087ft/day

0.053ft/day

0.124ft/day

0.129ft/day

0.037ft/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	

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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
0.135ft/day
CAP-13 75.30
CCMAP-6 74.25
CCMAP-11 73.70
POZ-3 76.14
CLASS 2 LANDFILL
CLASS 3 LANDFILL
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
CLFIB-2 75.68
CAP-5 75.00
0.046ft/day
CLFIB-1 75.81
CGS-PSE-5 77.70
CAP-4
CGS-PSE-3 75.87
CAP-7 75.31
CAP-3 75.44
BOTTOM ASH POND
CCMAP-3
CCMAP-13
CAP-8
CCMAP-12 74.30
CGS-PSE-7 87.65
CGS-PSE-6 74.50
CAP-2
CAP-9 76.80
0.120ft/day
CCMAP-2 74.08
CGS-PSE-2 75.16
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
DIVERSION CANAL 69.58
CBW-1 75.91
CGSPZ-3 74.82
CAP-11 76.89
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)
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

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
CLFIB-4 76.39
CAP-5 76.00
CGS-PSE-4 75.79
CAP-6
CAP-4
CAP-3 75.89
CAP-7 75.77
BOTTOM ASH POND
CAP-8
CCMAP-3
CCMAP-12 74.96
CCMAP-13
CAP-9 76.70
CGS-PSE-3 76.93
CGS-PSE-2 76.86
CGS-PSE-7 84.36
CAP-10
CCMAP-2 74.35
CCMAP-7 74.33
CCMAP-14 74.23
CAP-1 76.21
CAP-12
CAP-11 76.53
CGSPZ-3 77.01
CCMGP-5 74.77
CGYPSW-7-WSE 75.14
GMPSW-WET-2SWE 75.08
CGYPSW-8-WSE 75.22
CGSPZ-1 75.60
PM-1 75.71
CLFIB-3 76.26
CLFIB-2 76.29
CLFIB-1 76.37
CCMAP-5 76.33
CCMAP-4 76.18
CGS-PSE-5 77.67
CGS-PSE-6 74.53
COAL PILE
DECANT POND
CLASS 2 LANDFILL
CLASS 3 LANDFILL
CGSPZ-4 75.35
POZ-3 76.77
POZ-7 76.41
CBW-1 76.32
DIVERSION CANAL 69.06
LAKE MOULTRIE 75.13
0.001ft/day
0.132ft/day
0.060ft/day
0.148ft/day
0.017ft/day
0.032ft/day
0.256ft/day
0.145ft/day

CLOSED GYPSUM POND
CGYP-4 76.49
CGYP-3 76.44
CGYPSW-4-WSE 75.89
CGYPSW-3-WSE 75.49
CGYPSW-2-WSE 75.34
CGYP-5 76.62
CCMGP-1
CGYP-2 75.85
CGYP-7 75.64
CGYP-6 75.68
CCMGP-2 75.53
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
0.056ft/day

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

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

TECHNICAL MEMORANDUM

July 1, 2025
File No. 132892-102-003-02

SUBJECT: Statistical Evaluation of the January 2025 Corrective Action Groundwater Monitoring Data
Cross Generating Station
Bottom Ash Pond

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93, §257.95, and §257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the January 2025 corrective action groundwater monitoring event for the Cross Generating Station (CGS) Bottom Ash Pond. Data for this groundwater sampling event was validated on April 11, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

All coal combustion residual (CCR) and non-CCR wastewater inflows to the CGS Bottom Ash Pond ceased as of August 31, 2020. The unit continues undergoing closure-by-removal as outlined in the Remedy Selection Report dated September 30, 2020. At that time, assessment monitoring identified the presence of beryllium, cobalt, lithium, and radium in one or more downgradient wells at a statistically significant level (SSL) above the Groundwater Protection Standard (GWPS).

Recent analytical testing results from the January 2025 sampling event were evaluated to determine if SSLs of Appendix IV groundwater monitoring constituents continue to exist above the GWPS. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background wells, and the results are provided below. Consistent with prior statistical evaluations, SSLs were again detected above the GWPS for beryllium, cobalt, and lithium based on analytical data from the January 2025 groundwater sampling event. Of note, there is currently not an SSL for radium.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR §257.93(f) (1-4)) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich on October 12, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional

screening level, or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is termed the upper tolerance limit (UTL). Depending on the assumed distribution of background data, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to develop the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

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

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

The background wells (CBW-1 and PM-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on the statistical evaluation of analytical results collected through January 2025 and updated in the Statistical Output (Attachment A). The background dataset will be updated in Table 1 after four additional data points are collected (second semiannual event of 2027) in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on both the overall dataset, and on the eight most recent samples. Trends were only evaluated for constituent/well datasets of sufficient sample size. Recent trend analysis results are included in Table 1, and both overall and recent trends are included in Attachment A, Table A-4. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

Of the 37 well/constituent trends analyzed in recent data at downgradient compliance wells, 57 percent are stable or decreasing, and 38 are variable with no statistically significant trend. An increasing trend was identified in two well/constituent pairs, but recent concentrations remain an order of magnitude less than the GWPS. It is important to note that increasing trends are not part of the comparison criteria for triggering an SSL.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with the previous results, beryllium, cobalt, and lithium are present in groundwater at SSLs above the GWPS in one or more downgradient wells. Remaining Appendix IV constituents meet the GWPS:

- Beryllium SSLs at CAP-1 and CAP-9
- Cobalt SSLs at CAP-1, CAP-3, CAP-5, CAP-7, and CAP-9
- Lithium SSLs at CAP-1 and CAP-9

The CGS Bottom Ash Pond's Remedy Selection Report specified closure-by-removal of the CCR and CCR-contaminated material, followed by monitored natural attenuation of beryllium, cobalt, lithium, and radium-226 and -228 in groundwater. Groundwater modeling results predicted concentrations of beryllium, cobalt, lithium, and radium 226- and -228 will decline after source removal is completed and site equilibrium is restored. Excavation of the pond for CCR source removal is ongoing and likely contributing to dynamic site conditions.

Barium in CAP-5; fluoride in CAP-1, CAP-5, and CAP-9; and lead in CAP-9 were detected above the interwell UTL but were not identified as an SSL after the GWPS was compared to the LCL of the sample population. During closure activities, variability, including potential short-term increases in the concentrations of Appendix IV SSLs, is possible due to changing site conditions. The performance of the selected remedy will continue to be monitored after subsequent semiannual sampling events and will be based on the results of the corresponding statistical evaluations.

Enclosures:

Table 1 – January 2025 Corrective Action Monitoring Data (CGS Bottom Ash Pond)
Attachment A – Statistical Output, January 2025

TABLE

TABLE 1

JANUARY 2025 CORRECTIVE ACTION MONITORING DATA (CGS BOTTOM ASH POND)

CROSS GENERATING STATION

BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	January 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Antimony, Total (mg/L)																					
CBW-1	1/23	96%	0.005 - 0.025	0.0059	0.0050	0.0058	0.0059	71%	0	1	Not Evaluated	Non-Parametric	1/14/2025	0.0059	Y	NA	NA			NA	NA
PM-1	1/23	96%	0.005 - 0.025	0.0061	0.0050	0.0096	0.0056	69%	0	2	Not Evaluated		1/14/2025	0.0056	Y						
CAP-1	2/20	90%	0.005 - 0.025	0.0061	0.0050	0.0070	0.0060	73%	0	1	Increasing	NA	1/14/2025	0.006	Y	0.025	No	0.006	0.025	NA	No
CAP-3	3/20	85%	0.005 - 0.025	0.0061	0.0050	0.0067	0.0057	73%	0	1	Increasing	NA	1/14/2025	0.0057	Y		No			NA	No
CAP-5	2/20	90%	0.005 - 0.025	0.0060	0.0050	0.0064	0.0054	74%	0	1	No Trend	NA	1/15/2025	0.005	N		No			NA	No
CAP-7	2/20	90%	0.005 - 0.025	0.0061	0.0050	0.0068	0.0058	74%	0	1	No Trend	NA	1/15/2025	0.005	N		No			NA	No
CAP-9	2/20	90%	0.0005 - 0.025	0.0058	0.0050	0.0069	0.0059	80%	0	1	Probably Increasing	NA	1/16/2025	0.0059	Y		No			NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																					
CBW-1	3/25	88%	0.003 - 0.005	0.00528	0.005	0.00643	0.016	45%	1	0	Not Evaluated	Non-Parametric	1/14/2025	0.005	N	NA	NA			NA	NA
PM-1	3/25	88%	0.003 - 0.01	0.00496	0.005	0.00500	0.0042	24%	0	0	Not Evaluated		1/14/2025	0.005	N						
CAP-1	1/25	96%	0.003 - 0.01	0.00480	0.005	0.00500	0.00312	28%	0	0	Not Evaluated	NA	1/14/2025	0.005	N	0.016	No	0.01	0.016	NA	No
CAP-3	0/25	100%	0.003 - 0.01	0.00480	0.005	0.00500	NA	28%	0	0	Not Evaluated	NA	1/14/2025	0.005	N		No			NA	No
CAP-5	0/25	100%	0.003 - 0.01	0.00480	0.005	0.00500	NA	28%	0	0	Not Evaluated	NA	1/15/2025	0.005	N		No			NA	No
CAP-7	9/25	64%	0.005 - 0.01	0.00553	0.005	0.00946	0.0103	28%	1	0	Decreasing	NA	1/15/2025	0.005	N		No			NA	No
CAP-9	22/25	12%	0.003 - 0.01	0.00695	0.007	0.01024	0.0126	29%	2	0	No Trend	NA	1/16/2025	0.0072	Y		No			NA	No
CCR Appendix IV: Barium, Total (mg/L)																					
CBW-1	25/25	0%	NA	0.0426	0.0425	0.0472	0.061	12%	0	0	Stable	Non-Parametric	1/14/2025	0.0383	Y	NA	NA			NA	NA
PM-1	25/25	0%	NA	0.0817	0.0803	0.0975	0.103	9%	0	0	Stable		1/14/2025	0.084	Y						
CAP-1	25/25	0%	NA	0.0409	0.0415	0.0634	0.069	34%	0	0	Stable	NA	1/14/2025	0.0196	Y	0.103	No	2	2	NA	No
CAP-3	25/25	0%	NA	0.0824	0.0761	0.1252	0.237	45%	0	0	Stable	NA	1/14/2025	0.0684	Y		No			NA	No
CAP-5	25/25	0%	NA	1.40	1.42	1.58	1.66	13%	0	0	Stable	NA	1/15/2025	1.22	Y		Yes			NA	No
CAP-7	25/25	0%	NA	0.0349	0.0325	0.0469	0.0497	17%	0	0	Stable	NA	1/15/2025	0.0366	Y		No			NA	No
CAP-9	25/25	0%	NA	0.0485	0.0412	0.0736	0.095	40%	0	0	No Trend	NA	1/16/2025	0.0302	Y		No			NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																					
CBW-1	1/24	96%	0.0005 - 0.0005	0.0005	0.0005	0.0005	0.00063	5%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.0005	N	NA	NA			NA	NA
PM-1	0/25	100%	0.0005 - 0.005	0.0007	0.0005	0.0005	NA	132%	0	1	Not Evaluated		1/14/2025	0.0005	N						
CAP-1	24/24	0%	NA	0.0065	0.0064	0.0110	0.0116	47%	17	0	Stable	Parametric	1/14/2025	0.0073	Y	0.005	Yes	0.004	0.005	0.00518	Yes
CAP-3	0/24	100%	0.0005 - 0.001	0.0005	0.0005	0.0005	NA	20%	0	0	Not Evaluated	NA	1/14/2025	0.0005	N		No			NA	No
CAP-5	24/24	0%	NA	0.0044	0.0043	0.0055	0.0064	19%	18	0	Decreasing	NA	1/15/2025	0.0039	Y		No			NA	No
CAP-7	0/24	100%	0.0005 - 0.001	0.0005	0.0005	0.0005	NA	20%	0	0	Not Evaluated	NA	1/15/2025	0.0005	N		No			NA	No
CAP-9	24/24	0%	NA	0.0169	0.0165	0.0220	0.0245	17%	24	0	Stable	Parametric	1/16/2025	0.0202	Y		Yes			0.0157	Yes

TABLE 1
JANUARY 2025 CORRECTIVE ACTION MONITORING DATA (CGS BOTTOM ASH POND)
CROSS GENERATING STATION
BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	January 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Cadmium, Total (mg/L)																					
CBW-1	0/24	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	111%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.0005	N	NA	NA			NA	NA
PM-1	0/24	100%	0.0005 - 0.005	0.0008	0.0005	0.0035	NA	137%	0	0	Not Evaluated		1/14/2025	0.0005	N						
CAP-1	0/24	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	111%	0	0	Not Evaluated	NA	1/14/2025	0.0005	N	0.005	No	0.005	0.005	NA	No
CAP-3	0/24	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	111%	0	0	Not Evaluated	NA	1/14/2025	0.0005	N		No			NA	No
CAP-5	0/24	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	111%	0	0	Not Evaluated	NA	1/15/2025	0.0005	N		No			NA	No
CAP-7	0/24	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	111%	0	0	Not Evaluated	NA	1/15/2025	0.0005	N		No			NA	No
CAP-9	2/24	92%	0.0005 - 0.004	0.0007	0.0005	0.0014	0.0015	104%	0	0	Stable	NA	1/16/2025	0.0005	N		No			NA	No
CCR Appendix IV: Chromium, Total (mg/L)																					
CBW-1	1/24	96%	0.005 - 0.005	0.005	0.005	0.005	0.014	34%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.005	N	NA	NA			NA	NA
PM-1	0/23	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		1/14/2025	0.005	N						
CAP-1	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	NA	1/14/2025	0.005	N	0.014	No	0.1	0.1	NA	No
CAP-3	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	NA	1/14/2025	0.005	N		No			NA	No
CAP-5	1/24	96%	0.005 - 0.01	0.006	0.005	0.009	0.0251	69%	0	0	Not Evaluated	NA	1/15/2025	0.005	N		No			NA	No
CAP-7	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	NA	1/15/2025	0.005	N		No			NA	No
CAP-9	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	NA	1/16/2025	0.005	N		No			NA	No
CCR Appendix IV: Cobalt, Total (mg/L)																					
CBW-1	24/25	4%	0.001 - 0.001	0.0010	0.0008	0.0013	0.0034	53%	0	0	Increasing	Non-Parametric	1/14/2025	0.00083	Y	NA	NA			NA	NA
PM-1	24/25	4%	0.005 - 0.005	0.0012	0.0010	0.0018	0.00189	68%	0	0	Stable		1/14/2025	0.0016	Y						
CAP-1	24/24	0%	NA	0.0180	0.0171	0.0255	0.0287	34%	23	0	No Trend	Parametric	1/14/2025	0.0233	Y	0.005	Yes	0.006	0.006	0.0154	Yes
CAP-3	24/24	0%	NA	0.0271	0.0270	0.0325	0.0328	14%	24	0	Decreasing	Non-Parametric	1/14/2025	0.0248	Y		Yes			0.0254	Yes
CAP-5	24/24	0%	NA	0.0133	0.0136	0.0169	0.0174	17%	24	0	Decreasing	Parametric	1/15/2025	0.0122	Y		Yes			NA	Yes
CAP-7	24/24	0%	NA	0.0102	0.0102	0.0129	0.015	18%	23	0	Decreasing	Parametric	1/15/2025	0.006	Y		Yes			0.00944	Yes
CAP-9	24/24	0%	NA	0.0344	0.0360	0.0462	0.0501	26%	24	0	No Trend	Parametric	1/16/2025	0.0438	Y		Yes			0.0306	Yes
CCR Appendix IV: Fluoride, Total (mg/L)																					
CBW-1	24/25	4%	0.1 - 0.1	0.203	0.200	0.288	0.3	26%	0	0	Stable	Non-Parametric	1/14/2025	0.134	Y	NA	NA			NA	NA
PM-1	0/25	100%	0.1 - 0.1	0.100	0.100	0.100	NA	0%	0	0	Not Evaluated		1/14/2025	0.1	N						
CAP-1	23/24	4%	0.1 - 0.1	1.26	1.10	2.50	2.78	59%	0	0	Stable	NA	1/14/2025	1.64	Y	0.3	Yes	4	4	NA	No
CAP-3	6/24	75%	0.1 - 0.1	0.104	0.100	0.129	0.13	9%	0	0	Not Evaluated	NA	1/14/2025	0.101	Y		No			NA	No
CAP-5	24/24	0%	NA	0.496	0.525	0.626	0.75	27%	0	0	Stable	NA	1/15/2025	0.552	Y		Yes			NA	No
CAP-7	6/24	75%	0.1 - 0.165	0.141	0.100	0.164	0.83	105%	0	0	Not Evaluated	NA	1/15/2025	0.165	N		No			NA	No
CAP-9	24/24	0%	NA	2.60	2.19	4.45	4.62	46%	4	0	No Trend	NA	1/16/2025	4.46	Y		Yes			1.8	No

TABLE 1
JANUARY 2025 CORRECTIVE ACTION MONITORING DATA (CGS BOTTOM ASH POND)
CROSS GENERATING STATION
BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	January 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Lead, Total (mg/L)																					
CBW-1	24/25	4%	0.01 - 0.01	0.003	0.003	0.009	0.011	63%	0	0	Decreasing	Non-Parametric	1/14/2025	0.002	Y	NA	NA	0.015	0.015	NA	NA
PM-1	0/25	100%	0.001 - 0.01	0.002	0.001	0.008	NA	127%	0	0	Not Evaluated		1/14/2025	0.001	N						
CAP-1	8/23	65%	0.001 - 0.01	0.002	0.001	0.003	0.0023	94%	0	0	Stable	NA	1/14/2025	0.0014	Y	0.011	No			NA	No
CAP-3	0/23	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated	NA	1/14/2025	0.001	N		No			NA	No
CAP-5	21/23	9%	0.0025 - 0.01	0.006	0.006	0.010	0.01	29%	0	0	No Trend	NA	1/15/2025	0.0071	Y		No			NA	No
CAP-7	0/23	100%	0.001 - 0.01	0.002	0.001	0.009	NA	122%	0	0	Not Evaluated	NA	1/15/2025	0.001	N		No			NA	No
CAP-9	23/24	4%	0.01 - 0.01	0.014	0.012	0.020	0.0379	47%	6	0	No Trend	NA	1/16/2025	0.015	Y		Yes			NA	No
CCR Appendix IV: Lithium, Total (mg/L)																					
CBW-1	1/25	96%	0.005 - 0.02	0.0086	0.0100	0.0100	0.00066	42%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.005	N	NA	NA	0.04	0.04	NA	NA
PM-1	4/25	84%	0.005 - 0.01	0.0084	0.0100	0.0100	0.00544	29%	0	0	Stable		1/14/2025	0.00505	Y						
CAP-1	24/24	0%	NA	0.1073	0.1035	0.1858	0.192	37%	23	0	No Trend	Parametric	1/14/2025	0.173	Y	0.02	Yes			0.0904	Yes
CAP-3	20/24	17%	0.01 - 0.05	0.0134	0.0111	0.0168	0.0171	60%	0	1	Stable	NA	1/14/2025	0.0112	Y		No			NA	No
CAP-5	22/24	8%	0.005 - 0.01	0.0138	0.0126	0.0197	0.02	26%	0	0	Stable	NA	1/15/2025	0.017	Y		No			NA	No
CAP-7	0/24	100%	0.005 - 0.05	0.0102	0.0100	0.0100	NA	86%	0	1	Not Evaluated	NA	1/15/2025	0.005	N		No			NA	No
CAP-9	24/24	0%	NA	0.0703	0.0640	0.101	0.104	23%	23	0	Probably Increasing	Non-Parametric	1/16/2025	0.104	Y		Yes			0.062	Yes
CCR Appendix IV: Mercury, Total (mg/L)																					
CBW-1	0/25	100%	0.0002 - 0.001	0.0002	0.0002	0.0004	NA	68%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.0002	N	NA	NA	0.002	0.002	NA	NA
PM-1	0/25	100%	0.0002 - 0.001	0.0002	0.0002	0.0005	NA	71%	0	0	Not Evaluated		1/14/2025	0.0002	N						
CAP-1	0/22	100%	0.0002 - 0.001	0.0002	0.0002	0.0002	NA	72%	0	0	Not Evaluated	NA	1/14/2025	0.0002	N	0.001	No			NA	No
CAP-3	0/23	100%	0.0002 - 0.001	0.0002	0.0002	0.0002	NA	71%	0	0	Not Evaluated	NA	1/14/2025	0.0002	N		No			NA	No
CAP-5	0/23	100%	0.0002 - 0.001	0.0002	0.0002	0.0002	NA	71%	0	0	Not Evaluated	NA	1/15/2025	0.0002	N		No			NA	No
CAP-7	3/23	87%	0.0002 - 0.001	0.0002	0.0002	0.0003	0.00027	69%	0	0	Not Evaluated	NA	1/15/2025	0.0002	N		No			NA	No
CAP-9	3/23	87%	0.0002 - 0.001	0.0003	0.0002	0.0007	0.000678	71%	0	0	Not Evaluated	NA	1/16/2025	0.0002	N		No			NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																					
CBW-1	0/23	100%	0.005 - 0.02	0.009	0.010	0.010	NA	38%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.005	N	NA	NA	0.1	0.1	NA	NA
PM-1	0/23	100%	0.005 - 0.01	0.008	0.010	0.010	NA	28%	0	0	Not Evaluated		1/14/2025	0.005	N						
CAP-1	0/20	100%	0.005 - 0.01	0.008	0.010	0.010	NA	30%	0	0	Not Evaluated	NA	1/14/2025	0.005	N	0.02	No			NA	No
CAP-3	0/20	100%	0.005 - 0.01	0.008	0.010	0.010	NA	30%	0	0	Not Evaluated	NA	1/14/2025	0.005	N		No			NA	No
CAP-5	0/20	100%	0.005 - 0.01	0.008	0.010	0.010	NA	30%	0	0	Not Evaluated	NA	1/15/2025	0.005	N		No			NA	No
CAP-7	0/20	100%	0.005 - 0.05	0.010	0.010	0.012	NA	94%	0	0	Not Evaluated	NA	1/15/2025	0.005	N		No			NA	No
CAP-9	0/20	100%	0.005 - 0.04	0.010	0.010	0.012	NA	77%	0	0	Not Evaluated	NA	1/16/2025	0.005	N		No			NA	No

TABLE 1

JANUARY 2025 CORRECTIVE ACTION MONITORING DATA (CGS BOTTOM ASH POND)

CROSS GENERATING STATION

BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	January 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																					
CBW-1	17/24	29%	4-4	3.09	3.41	5.28	6.34	53%	4	0	Stable	Non-Parametric	1/14/2025	1.12	Y	NA	NA			NA	NA
PM-1	18/24	25%	4-4	3.61	3.57	6.71	16.3	87%	2	0	Stable		1/14/2025	0.694	Y						
CAP-1	15/23	35%	4-4	3.13	3.01	5.03	5.24	38%	2	0	Stable	NA	1/14/2025	1.64	Y	16.3	No	5	16.3	NA	No
CAP-3	16/23	30%	4-4	2.75	2.29	4.18	4.48	49%	0	0	Stable	NA	1/14/2025	2.15	Y		No			NA	No
CAP-5	24/24	0%	4-4	16.6	17.4	20.8	21.3	22%	24	0	Stable	NA	1/15/2025	8.48	Y		No			NA	No
CAP-7	19/23	17%	4-4	3.94	4.00	6.16	6.56	40%	7	0	No Trend	NA	1/15/2025	4.57	Y		No			NA	No
CAP-9	18/23	22%	4-4	4.23	4.00	7.08	7.31	36%	5	0	No Trend	NA	1/16/2025	4.59	Y		No			NA	No
CCR Appendix IV: Selenium, Total (mg/L)																					
CBW-1	0/25	100%	0.0025 - 0.05	0.012	0.010	0.020	NA	69%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.01	N	NA	NA			NA	NA
PM-1	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		1/14/2025	0.01	N						
CAP-1	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	42%	0	0	Not Evaluated	NA	1/14/2025	0.01	N	0.05	No	0.05	0.05	NA	No
CAP-3	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	42%	0	0	Not Evaluated	NA	1/14/2025	0.01	N		No			NA	No
CAP-5	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	42%	0	0	Not Evaluated	NA	1/15/2025	0.01	N		No			NA	No
CAP-7	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	42%	0	0	Not Evaluated	NA	1/15/2025	0.01	N		No			NA	No
CAP-9	3/21	86%	0.0025 - 0.02	0.012	0.010	0.020	0.031	48%	0	0	Stable	NA	1/16/2025	0.01	N		No			NA	No
CCR Appendix IV: Thalium, Total (mg/L)																					
CBW-1	0/23	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric	1/14/2025	0.001	N	NA	NA			NA	NA
PM-1	0/23	100%	0.001 - 0.01	0.001	0.001	0.001	NA	135%	0	1	Not Evaluated		1/14/2025	0.001	N						
CAP-1	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	1/14/2025	0.001	N	0.01	No	0.002	0.01	NA	No
CAP-3	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	1/14/2025	0.001	N		No			NA	No
CAP-5	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	1/15/2025	0.001	N		No			NA	No
CAP-7	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	1/15/2025	0.001	N		No			NA	No
CAP-9	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	1/16/2025	0.001	N		No			NA	No

NOTES:

[a] Mann-Kendall Trends calculated from the 8 most recent samples at a 95% confidence limits and trend classifications are determined based on guidance from the Monitoring and Remediation Optimization System (Aziz, 2003). Recent trend date ranges vary by well/constituent and are included in Attachment A, Table A-4. 'Probably increasing' and 'probably decreasing' trends indicate that while no statistically significant trend was identified at the indicated confidence level, data suggest emerging trends at a lower confidence level. Data sets that do not meet test requirements, such as having a detection rate of at least 25%, are labeled as 'Not Evaluated'.

[b] Interwell Tolerance Limits are calculated from data collected from ipooled upgradient well data (CBW-1 and PM-1) through January 2025. No statistical outlier data points were removed from background datasets.

MCL/RSL: Maximum contaminant level/Regional screening level

mg/L: milligrams per liter, pCi/L: picocuries per liter

n: sample count

NA: not applicable

<: Constituent not detected above the method detection limit and the sample-specific reporting limit is show.

ATTACHMENT A
Statistical Output, January 2025

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
CAP-1	Antimony	mg/L	20	18	90	0.025	0.005	0.00609	0.005	0.0045	73.2	0.005 - 0.025	2015-10-21 to 2025-01-14
CAP-3	Antimony	mg/L	20	17	85	0.025	0.005	0.00608	0.005	0.0045	73.3	0.005 - 0.025	2015-10-19 to 2025-01-14
CAP-5	Antimony	mg/L	20	18	90	0.025	0.005	0.00603	0.005	0.0045	74.1	0.005 - 0.025	2015-10-21 to 2025-01-15
CAP-7	Antimony	mg/L	20	18	90	0.025	0.005	0.00606	0.005	0.0045	73.6	0.005 - 0.025	2015-10-21 to 2025-01-15
CAP-9	Antimony	mg/L	20	18	90	0.025	0.0005	0.00583	0.005	0.0046	79.5	0.0005 - 0.025	2015-10-21 to 2025-01-16
CBW-1 (Background)	Antimony	mg/L	23	22	96	0.025	0.005	0.00591	0.005	0.0042	70.5	0.005 - 0.025	2015-10-19 to 2025-01-14
PM-1 (Background)	Antimony	mg/L	23	22	96	0.025	0.005	0.00611	0.005	0.0042	69.5	0.005 - 0.025	2015-10-19 to 2025-01-14
Pooled Background	Antimony	mg/L	46	44	96	0.025	0.005	0.00601	0.005	0.0042	69.2	0.005 - 0.025	2015-10-19 to 2025-01-14
CAP-1	Arsenic	mg/L	25	24	96	0.01	0.003	0.0048	0.005	0.0013	28	0.003 - 0.01	2015-10-21 to 2025-01-14
CAP-3	Arsenic	mg/L	25	25	100	0.01	0.003	0.0048	0.005	0.0014	28.2	0.003 - 0.01	2015-10-19 to 2025-01-14
CAP-5	Arsenic	mg/L	25	25	100	0.01	0.003	0.0048	0.005	0.0014	28.2	0.003 - 0.01	2015-10-21 to 2025-01-15
CAP-7	Arsenic	mg/L	25	16	64	0.0103	0.00335	0.00553	0.005	0.0015	27.8	0.005 - 0.01	2015-10-21 to 2025-01-15
CAP-9	Arsenic	mg/L	25	3	12	0.0126	0.003	0.00695	0.0068	0.002	29	0.003 - 0.01	2015-10-21 to 2025-01-16
CBW-1 (Background)	Arsenic	mg/L	25	22	88	0.016	0.003	0.00528	0.005	0.0024	44.7	0.003 - 0.005	2015-10-19 to 2025-01-14
PM-1 (Background)	Arsenic	mg/L	25	22	88	0.01	0.003	0.00496	0.005	0.0012	24.2	0.003 - 0.01	2015-10-19 to 2025-01-14
Pooled Background	Arsenic	mg/L	50	44	88	0.016	0.003	0.00512	0.005	0.0019	36.4	0.003 - 0.01	2015-10-19 to 2025-01-14
CAP-1	Barium	mg/L	25	0	0	0.069	0.0182	0.0409	0.0415	0.014	33.9	NA	2015-10-21 to 2025-01-14
CAP-3	Barium	mg/L	25	0	0	0.237	0.0388	0.0824	0.0761	0.037	44.6	NA	2015-10-19 to 2025-01-14
CAP-5	Barium	mg/L	25	0	0	1.66	0.75	1.4	1.42	0.18	12.5	NA	2015-10-21 to 2025-01-15
CAP-7	Barium	mg/L	25	0	0	0.0497	0.0276	0.0349	0.0325	0.0059	16.8	NA	2015-10-21 to 2025-01-15
CAP-9	Barium	mg/L	25	0	0	0.095	0.0161	0.0485	0.0412	0.019	39.9	NA	2015-10-21 to 2025-01-16
CBW-1 (Background)	Barium	mg/L	25	0	0	0.061	0.033	0.0426	0.0425	0.005	11.8	NA	2015-10-19 to 2025-01-14
PM-1 (Background)	Barium	mg/L	25	0	0	0.103	0.0703	0.0817	0.0803	0.0077	9.37	NA	2015-10-19 to 2025-01-14
Pooled Background	Barium	mg/L	50	0	0	0.103	0.033	0.0622	0.0656	0.021	33.4	NA	2015-10-19 to 2025-01-14
CAP-1	Beryllium	mg/L	24	0	0	0.0116	0.00051	0.00646	0.00644	0.003	47	NA	2015-10-21 to 2025-01-14
CAP-3	Beryllium	mg/L	24	24	100	0.001	0.0005	0.000521	0.0005	0.0001	19.6	0.0005 - 0.001	2015-10-19 to 2025-01-14
CAP-5	Beryllium	mg/L	24	0	0	0.0064	0.0017	0.00439	0.0043	0.00085	19.3	NA	2015-10-21 to 2025-01-15
CAP-7	Beryllium	mg/L	24	24	100	0.001	0.0005	0.000521	0.0005	0.0001	19.6	0.0005 - 0.001	2015-10-21 to 2025-01-15
CAP-9	Beryllium	mg/L	24	0	0	0.0245	0.0123	0.0169	0.0165	0.0029	17	NA	2015-10-21 to 2025-01-16
CBW-1 (Background)	Beryllium	mg/L	24	23	96	0.00063	0.0005	0.000505	0.0005	2.7e-05	5.25	0.0005 - 0.0005	2015-10-19 to 2025-01-14
PM-1 (Background)	Beryllium	mg/L	25	25	100	0.005	0.0005	0.00068	0.0005	0.0009	132	0.0005 - 0.005	2015-10-19 to 2025-01-14
Pooled Background	Beryllium	mg/L	49	48	98	0.005	0.0005	0.000594	0.0005	0.00064	108	0.0005 - 0.005	2015-10-19 to 2025-01-14
CAP-1	Cadmium	mg/L	24	24	100	0.004	0.0005	0.000646	0.0005	0.00071	111	0.0005 - 0.004	2015-10-21 to 2025-01-14
CAP-3	Cadmium	mg/L	24	24	100	0.004	0.0005	0.000646	0.0005	0.00071	111	0.0005 - 0.004	2015-10-19 to 2025-01-14
CAP-5	Cadmium	mg/L	24	24	100	0.004	0.0005	0.000646	0.0005	0.00071	111	0.0005 - 0.004	2015-10-21 to 2025-01-15
CAP-7	Cadmium	mg/L	24	24	100	0.004	0.0005	0.000646	0.0005	0.00071	111	0.0005 - 0.004	2015-10-21 to 2025-01-15
CAP-9	Cadmium	mg/L	24	22	92	0.004	0.0005	0.000713	0.0005	0.00074	104	0.0005 - 0.004	2015-10-21 to 2025-01-16
CBW-1 (Background)	Cadmium	mg/L	24	24	100	0.004	0.0005	0.000646	0.0005	0.00071	111	0.0005 - 0.004	2015-10-19 to 2025-01-14
PM-1 (Background)	Cadmium	mg/L	24	24	100	0.005	0.0005	0.000833	0.0005	0.0011	137	0.0005 - 0.005	2015-10-19 to 2025-01-14
Pooled Background	Cadmium	mg/L	48	48	100	0.005	0.0005	0.00074	0.0005	0.00095	128	0.0005 - 0.005	2015-10-19 to 2025-01-14
CAP-1	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-10-21 to 2025-01-14
CAP-3	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-10-19 to 2025-01-14
CAP-5	Chromium	mg/L	24	23	96	0.0251	0.005	0.00605	0.005	0.0042	69.2	0.005 - 0.01	2015-10-21 to 2025-01-15
CAP-7	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-10-21 to 2025-01-15
CAP-9	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-10-21 to 2025-01-16
CBW-1 (Background)	Chromium	mg/L	24	23	96	0.014	0.005	0.00538	0.005	0.0018	34.2	0.005 - 0.005	2015-10-19 to 2025-01-14
PM-1 (Background)	Chromium	mg/L	23	23	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-10-19 to 2025-01-14
Pooled Background	Chromium	mg/L	47	46	98	0.014	0.005	0.00519	0.005	0.0013	25.3	0.005 - 0.005	2015-10-19 to 2025-01-14
CAP-1	Cobalt	mg/L	24	0	0	0.0287	0.0036	0.018	0.017	0.0061	33.9	NA	2015-10-21 to 2025-01-14
CAP-3	Cobalt	mg/L	24	0	0	0.0328	0.0142	0.0271	0.027	0.0037	13.7	NA	2015-10-19 to 2025-01-14
CAP-5	Cobalt	mg/L	24	0	0	0.0174	0.0068	0.0133	0.0135	0.0022	16.9	NA	2015-10-21 to 2025-01-15
CAP-7	Cobalt	mg/L	24	0	0	0.015	0.006	0.0102	0.0102	0.0019	18.5	NA	2015-10-21 to 2025-01-15
CAP-9	Cobalt	mg/L	24	0	0	0.0501	0.0155	0.0343	0.036	0.0089	25.8	NA	2015-10-21 to 2025-01-16
CBW-1 (Background)	Cobalt	mg/L	25	1	4	0.0034	0.00063	0.000991	0.00084	0.00053	53.4	0.001 - 0.001	2015-10-19 to 2025-01-14
PM-1 (Background)	Cobalt	mg/L	25	1	4	0.005	0.00079	0.00123	0.001	0.00083	67.8	0.005 - 0.005	2015-10-19 to 2025-01-14
Pooled Background	Cobalt	mg/L	50	2	4	0.005	0.00063	0.00111	0.00092	0.0007	63.2	0.001 - 0.005	2015-10-19 to 2025-01-14
CAP-1	Fluoride	mg/L	24	1	4	2.78	0.1	1.26	1.1	0.75	59.2	0.1 - 0.1	2015-10-21 to 2025-01-14
CAP-3	Fluoride	mg/L	24	18	75	0.13	0.1	0.104	0.1	0.0092	8.88	0.1 - 0.1	2015-10-19 to 2025-01-14
CAP-5	Fluoride	mg/L	24	0	0	0.75	0.1	0.496	0.525	0.14	27.4	NA	2015-10-21 to 2025-01-15
CAP-7	Fluoride	mg/L	24	18	75	0.83	0.1	0.141	0.1	0.15	105	0.1 - 0.165	2015-10-21 to 2025-01-15
CAP-9	Fluoride	mg/L	24	0	0	4.62	0.5	2.6	2.18	1.2	45.5	NA	2015-10-21 to 2025-01-16
CBW-1 (Background)	Fluoride	mg/L	25	1	4	0.3	0.1	0.203	0.2	0.053	25.8	0.1 - 0.1	2015-10-19 to 2025-01-14
PM-1 (Background)	Fluoride	mg/L	25	25	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-10-19 to 2025-01-14
Pooled Background	Fluoride	mg/L	50	26	52	0.3	0.1	0.152	0.1	0.064	42.1	0.1 - 0.1	2015-10-19 to 2025-01-14
CAP-1	Lead	mg/L	23	15	65	0.01	0.001	0.00197	0.0014	0.0019	94	0.001 - 0.01	2015-10-21 to 2025-01-14
CAP-3	Lead	mg/L	23	23	100	0.01	0.001	0.00172	0.001	0.0019	111	0.001 - 0.01	2015-10-19 to 2025-01-14
CAP-5	Lead	mg/L	23	2	9	0.01	0.0025	0.00638	0.0063	0.0018	28.5	0.0025 - 0.01	2015-10-21 to 2025-01-15
CAP-7	Lead	mg/L	23	23	100	0.01	0.001	0.00211	0.001	0.0026	122	0.001 - 0.01	2015-10-21 to 2025-01-15
CAP-9	Lead	mg/L	24	1	4	0.0379	0.0032	0.0135	0.0122	0.0063	46.6	0.01 - 0.01	2015-10-21 to 2025-01-16

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
CBW-1 (Background)	Lead	mg/L	25	1	4	0.011	0.002	0.00343	0.0028	0.0022	63.2	0.01 - 0.01	2015-10-19 to 2025-01-14
PM-1 (Background)	Lead	mg/L	25	25	100	0.01	0.001	0.00196	0.001	0.0025	127	0.001 - 0.01	2015-10-19 to 2025-01-14
Pooled Background	Lead	mg/L	50	26	52	0.011	0.001	0.0027	0.0025	0.0024	89.9	0.001 - 0.01	2015-10-19 to 2025-01-14
CAP-1	Lithium	mg/L	24	0	0	0.192	0.0258	0.107	0.104	0.04	37.3	NA	2015-10-21 to 2025-01-14
CAP-3	Lithium	mg/L	24	4	17	0.05	0.00969	0.0134	0.0111	0.008	59.9	0.01 - 0.05	2015-10-19 to 2025-01-14
CAP-5	Lithium	mg/L	24	2	8	0.02	0.005	0.0138	0.0126	0.0035	25.6	0.005 - 0.01	2015-10-21 to 2025-01-15
CAP-7	Lithium	mg/L	24	24	100	0.05	0.005	0.0102	0.01	0.0088	86	0.005 - 0.05	2015-10-21 to 2025-01-15
CAP-9	Lithium	mg/L	24	0	0	0.104	0.038	0.0703	0.064	0.016	23.4	NA	2015-10-21 to 2025-01-16
CBW-1 (Background)	Lithium	mg/L	25	24	96	0.02	0.00066	0.00863	0.01	0.0036	42	0.005 - 0.02	2015-10-19 to 2025-01-14
PM-1 (Background)	Lithium	mg/L	25	21	84	0.01	0.0037	0.00838	0.01	0.0024	29	0.005 - 0.01	2015-10-19 to 2025-01-14
Pooled Background	Lithium	mg/L	50	45	90	0.02	0.00066	0.0085	0.01	0.0031	35.9	0.005 - 0.02	2015-10-19 to 2025-01-14
CAP-1	Mercury	mg/L	22	22	100	0.001	0.0002	0.000236	0.0002	0.00017	72.2	0.0002 - 0.001	2015-10-21 to 2025-01-14
CAP-3	Mercury	mg/L	23	23	100	0.001	0.0002	0.000235	0.0002	0.00017	71	0.0002 - 0.001	2015-10-19 to 2025-01-14
CAP-5	Mercury	mg/L	23	23	100	0.001	0.0002	0.000235	0.0002	0.00017	71	0.0002 - 0.001	2015-10-21 to 2025-01-15
CAP-7	Mercury	mg/L	23	20	87	0.001	0.0002	0.000241	0.0002	0.00017	68.9	0.0002 - 0.001	2015-10-21 to 2025-01-15
CAP-9	Mercury	mg/L	23	20	87	0.001	0.0002	0.000283	0.0002	0.0002	71.4	0.0002 - 0.001	2015-10-21 to 2025-01-16
CBW-1 (Background)	Mercury	mg/L	25	25	100	0.001	0.0002	0.00024	0.0002	0.00016	68	0.0002 - 0.001	2015-10-19 to 2025-01-14
PM-1 (Background)	Mercury	mg/L	25	25	100	0.001	0.0002	0.000248	0.0002	0.00018	70.9	0.0002 - 0.001	2015-10-19 to 2025-01-14
Pooled Background	Mercury	mg/L	50	50	100	0.001	0.0002	0.000244	0.0002	0.00017	68.9	0.0002 - 0.001	2015-10-19 to 2025-01-14
CAP-1	Molybdenum	mg/L	20	20	100	0.01	0.005	0.00825	0.01	0.0024	29.7	0.005 - 0.01	2015-10-21 to 2025-01-14
CAP-3	Molybdenum	mg/L	20	20	100	0.01	0.005	0.00825	0.01	0.0024	29.7	0.005 - 0.01	2015-10-19 to 2025-01-14
CAP-5	Molybdenum	mg/L	20	20	100	0.01	0.005	0.00825	0.01	0.0024	29.7	0.005 - 0.01	2015-10-21 to 2025-01-15
CAP-7	Molybdenum	mg/L	20	20	100	0.05	0.005	0.0102	0.01	0.0097	94.3	0.005 - 0.05	2015-10-21 to 2025-01-15
CAP-9	Molybdenum	mg/L	20	20	100	0.04	0.005	0.00975	0.01	0.0075	77.1	0.005 - 0.04	2015-10-21 to 2025-01-16
CBW-1 (Background)	Molybdenum	mg/L	23	23	100	0.02	0.005	0.00891	0.01	0.0034	37.7	0.005 - 0.02	2015-10-19 to 2025-01-14
PM-1 (Background)	Molybdenum	mg/L	23	23	100	0.01	0.005	0.00848	0.01	0.0024	27.7	0.005 - 0.01	2015-10-19 to 2025-01-14
Pooled Background	Molybdenum	mg/L	46	46	100	0.02	0.005	0.0087	0.01	0.0029	33.1	0.005 - 0.02	2015-10-19 to 2025-01-14
CAP-1	Radium-226 & 228	pCi/L	23	8	35	5.24	0.789	3.13	3.01	1.2	37.7	4 - 4	2015-10-21 to 2025-01-14
CAP-3	Radium-226 & 228	pCi/L	23	7	30	4.48	0.423	2.75	2.29	1.3	49.1	4 - 4	2015-10-19 to 2025-01-14
CAP-5	Radium-226 & 228	pCi/L	24	0	0	21.3	7.46	16.6	17.4	3.7	22.2	NA	2015-10-21 to 2025-01-15
CAP-7	Radium-226 & 228	pCi/L	23	4	17	6.56	1.11	3.94	4	1.6	40.3	4 - 4	2015-10-21 to 2025-01-15
CAP-9	Radium-226 & 228	pCi/L	23	5	22	7.31	1.19	4.23	4	1.5	35.6	4 - 4	2015-10-21 to 2025-01-16
CBW-1 (Background)	Radium-226 & 228	pCi/L	24	7	29	6.34	0.346	3.09	3.41	1.6	53.3	4 - 4	2015-10-19 to 2025-01-14
PM-1 (Background)	Radium-226 & 228	pCi/L	24	6	25	16.3	0.538	3.61	3.57	3.1	86.6	4 - 4	2015-10-19 to 2025-01-14
Pooled Background	Radium-226 & 228	pCi/L	48	13	27	16.3	0.346	3.35	3.57	2.5	74.2	4 - 4	2015-10-19 to 2025-01-14
CAP-1	Selenium	mg/L	21	21	100	0.02	0.0025	0.0106	0.01	0.0045	42.1	0.0025 - 0.02	2015-10-21 to 2025-01-14
CAP-3	Selenium	mg/L	21	21	100	0.02	0.0025	0.0106	0.01	0.0045	42.1	0.0025 - 0.02	2015-10-19 to 2025-01-14
CAP-5	Selenium	mg/L	21	21	100	0.02	0.0025	0.0106	0.01	0.0045	42.1	0.0025 - 0.02	2015-10-21 to 2025-01-15
CAP-7	Selenium	mg/L	21	21	100	0.02	0.0025	0.0106	0.01	0.0045	42.1	0.0025 - 0.02	2015-10-21 to 2025-01-15
CAP-9	Selenium	mg/L	21	18	86	0.031	0.0025	0.0124	0.01	0.0059	47.9	0.0025 - 0.02	2015-10-21 to 2025-01-16
CBW-1 (Background)	Selenium	mg/L	25	25	100	0.05	0.0025	0.0123	0.01	0.0085	69.3	0.0025 - 0.05	2015-10-19 to 2025-01-14
PM-1 (Background)	Selenium	mg/L	25	25	100	0.02	0.0025	0.0107	0.01	0.0039	36.6	0.0025 - 0.02	2015-10-19 to 2025-01-14
Pooled Background	Selenium	mg/L	50	50	100	0.05	0.0025	0.0115	0.01	0.0066	57.6	0.0025 - 0.05	2015-10-19 to 2025-01-14
CAP-1	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-01-14
CAP-3	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-19 to 2025-01-14
CAP-5	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-01-15
CAP-7	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-01-15
CAP-9	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-01-16
CBW-1 (Background)	Thallium	mg/L	23	23	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-19 to 2025-01-14
PM-1 (Background)	Thallium	mg/L	23	23	100	0.01	0.001	0.00139	0.001	0.0019	135	0.001 - 0.01	2015-10-19 to 2025-01-14
Pooled Background	Thallium	mg/L	46	46	100	0.01	0.001	0.0012	0.001	0.0013	111	0.001 - 0.01	2015-10-19 to 2025-01-14

Table A-2. Results of Shapiro-Wilk Test for Normality

		Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
CAP-1	Antimony	0.412	5.6e-08	20	18	Not normal
CAP-3	Antimony	0.466	1.6e-07	20	17	Not normal
CAP-5	Antimony	0.390	3.7e-08	20	18	Not normal
CAP-7	Antimony	0.402	4.7e-08	20	18	Not normal
CAP-9	Antimony	0.501	3.3e-07	20	18	Not normal
CBW-1 (Background)	Antimony	0.303	1.8e-09	23	22	Not normal
PM-1 (Background)	Antimony	0.359	5e-09	23	22	Not normal
Pooled Background	Antimony	0.326	3.1e-13	46	44	Not normal
CAP-1	Arsenic	0.599	4.1e-07	25	24	Not normal
CAP-3	Arsenic	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-5	Arsenic	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-7	Arsenic	0.711	1e-05	25	16	Not normal
CAP-9	Arsenic	0.933	0.1	25	3	Normal
CBW-1 (Background)	Arsenic	0.408	5.2e-09	25	22	Not normal
PM-1 (Background)	Arsenic	0.581	2.6e-07	25	22	Not normal
Pooled Background	Arsenic	0.357	1.8e-13	50	44	Not normal
CAP-1	Barium	0.976	0.8	25	0	Normal
CAP-3	Barium	0.624	8.1e-07	25	0	Not normal
CAP-5	Barium	0.833	0.00087	25	0	Not normal
CAP-7	Barium	0.893	0.013	25	0	Not normal
CAP-9	Barium	0.967	0.57	25	0	Normal
CBW-1 (Background)	Barium	0.818	0.00047	25	0	Not normal
PM-1 (Background)	Barium	0.887	0.0096	25	0	Not normal
Pooled Background	Barium	0.854	2e-05	50	0	Not normal
CAP-1	Beryllium	0.962	0.48	24	0	Normal
CAP-3	Beryllium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-5	Beryllium	0.890	0.013	24	0	Not normal
CAP-7	Beryllium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-9	Beryllium	0.957	0.37	24	0	Normal
CBW-1 (Background)	Beryllium	0.209	2.2e-10	24	23	Not normal
PM-1 (Background)	Beryllium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
Pooled Background	Beryllium	0.159	3.1e-15	49	48	Not normal
CAP-1	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-3	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-5	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-7	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-9	Cadmium	0.409	8.3e-09	24	22	Not normal
CBW-1 (Background)	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
CAP-1	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-3	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-5	Chromium	0.242	3.8e-10	24	23	Not normal
CAP-7	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-9	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CBW-1 (Background)	Chromium	0.209	2.2e-10	24	23	Not normal
PM-1 (Background)	Chromium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.131	3.6e-15	47	46	Not normal
CAP-1	Cobalt	0.968	0.61	24	0	Normal
CAP-3	Cobalt	0.853	0.0025	24	0	Not normal
CAP-5	Cobalt	0.939	0.16	24	0	Normal
CAP-7	Cobalt	0.980	0.89	24	0	Normal
CAP-9	Cobalt	0.941	0.18	24	0	Normal
CBW-1 (Background)	Cobalt	0.517	5.5e-08	25	1	Not normal
PM-1 (Background)	Cobalt	0.716	1.2e-05	25	1	Not normal
Pooled Background	Cobalt	0.654	1.3e-09	50	2	Not normal
CAP-1	Fluoride	0.968	0.63	24	1	Normal
CAP-3	Fluoride	0.586	4.3e-07	24	18	Not normal
CAP-5	Fluoride	0.887	0.012	24	0	Not normal
CAP-7	Fluoride	0.356	2.9e-09	24	18	Not normal
CAP-9	Fluoride	0.915	0.044	24	0	Not normal
CBW-1 (Background)	Fluoride	0.968	0.59	25	1	Normal
PM-1 (Background)	Fluoride	NA	NA	25	25	Not Evaluated - All Non-Detect Results

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit) W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Fluoride	0.791	5.3e-07	50	26	Not normal
CAP-1	Lead	0.720	2.6e-05	23	15	Not normal
CAP-3	Lead	NA	NA	23	23	Not Evaluated - All Non-Detect Results
CAP-5	Lead	0.944	0.22	23	2	Normal
CAP-7	Lead	NA	NA	23	23	Not Evaluated - All Non-Detect Results
CAP-9	Lead	0.794	0.00024	24	1	Not normal
CBW-1 (Background)	Lead	0.488	2.9e-08	25	1	Not normal
PM-1 (Background)	Lead	NA	NA	25	25	Not Evaluated - All Non-Detect Results
Pooled Background	Lead	0.752	8.1e-08	50	26	Not normal
CAP-1	Lithium	0.951	0.28	24	0	Normal
CAP-3	Lithium	0.855	0.0027	24	4	Not normal
CAP-5	Lithium	0.881	0.0087	24	2	Not normal
CAP-7	Lithium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-9	Lithium	0.894	0.016	24	0	Not normal
CBW-1 (Background)	Lithium	0.738	2.5e-05	25	24	Not normal
PM-1 (Background)	Lithium	0.570	2e-07	25	21	Not normal
Pooled Background	Lithium	0.677	3.2e-09	50	45	Not normal
CAP-1	Mercury	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CAP-3	Mercury	NA	NA	23	23	Not Evaluated - All Non-Detect Results
CAP-5	Mercury	NA	NA	23	23	Not Evaluated - All Non-Detect Results
CAP-7	Mercury	0.459	3.6e-08	23	20	Not normal
CAP-9	Mercury	0.536	1.9e-07	23	20	Not normal
CBW-1 (Background)	Mercury	NA	NA	25	25	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Mercury	NA	NA	25	25	Not Evaluated - All Non-Detect Results
Pooled Background	Mercury	NA	NA	50	50	Not Evaluated - All Non-Detect Results
CAP-1	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-3	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-5	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-7	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-9	Molybdenum	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CBW-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Molybdenum	NA	NA	46	46	Not Evaluated - All Non-Detect Results
CAP-1	Radium-226 & 228	0.795	0.00032	23	8	Not normal
CAP-3	Radium-226 & 228	0.867	0.0056	23	7	Not normal
CAP-5	Radium-226 & 228	0.900	0.022	24	0	Not normal
CAP-7	Radium-226 & 228	0.893	0.019	23	4	Not normal
CAP-9	Radium-226 & 228	0.934	0.14	23	5	Normal
CBW-1 (Background)	Radium-226 & 228	0.837	0.0013	24	7	Not normal
PM-1 (Background)	Radium-226 & 228	0.612	8.4e-07	24	6	Not normal
Pooled Background	Radium-226 & 228	0.646	1.7e-09	48	13	Not normal
CAP-1	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-3	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-5	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-7	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-9	Selenium	0.589	1.5e-06	21	18	Not normal
CBW-1 (Background)	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
Pooled Background	Selenium	NA	NA	50	50	Not Evaluated - All Non-Detect Results
CAP-1	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-3	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-5	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-7	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CAP-9	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
CBW-1 (Background)	Thallium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Thallium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	46	46	Not Evaluated - All Non-Detect Results

Table A-3. Results of Rosner/Dixon Test for Outliers

				Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)						
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CAP-1	Antimony	20	18	Dixon	0.96	0	NA	NA	Yes	NA
CAP-3	Antimony	20	17	Dixon	0.965	0	NA	NA	Yes	NA
CAP-5	Antimony	20	18	Dixon	0.99	0	NA	NA	Yes	NA
CAP-7	Antimony	20	18	Dixon	0.98	0	NA	NA	Yes	NA
CAP-9	Antimony	20	18	Dixon	0.995	0	NA	NA	Yes	NA
CBW-1	Antimony	23	22	Dixon	1	0	NA	NA	Yes	NA
PM-1	Antimony	23	22	Dixon	0.97	0	NA	NA	Yes	NA
Pooled Background	Antimony	46	44	Rosner	4.563, 6.355, 6.337	NA	3.094, 3.085, 3.076	3	NA	NA
CAP-1	Arsenic	25	24	Dixon	0.7143	0	NA	NA	Yes	NA
CAP-3	Arsenic	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Arsenic	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-7	Arsenic	25	16	Dixon	0.566	0	NA	NA	Yes	NA
CAP-9	Arsenic	25	3	Dixon	0.3421	0.255	NA	NA	No	NA
CBW-1	Arsenic	25	22	Dixon	0.8177	0	NA	NA	Yes	NA
PM-1	Arsenic	25	22	Dixon	0.7692	0	NA	NA	Yes	NA
Pooled Background	Arsenic	50	44	Rosner	5.84, 5.035, 2.744	NA	3.128, 3.12, 3.112	2	NA	NA
CAP-1	Barium	25	0	Dixon	0.1469	0.6589	NA	NA	No	NA
CAP-3	Barium	25	0	Dixon	0.7345	0	NA	NA	Yes	NA
CAP-5	Barium	25	0	Dixon	0.6173	0	NA	NA	Yes	NA
CAP-7	Barium	25	0	Dixon	0.4	0.1103	NA	NA	No	NA
CAP-9	Barium	25	0	Dixon	0.3151	0.3541	NA	NA	No	NA
CBW-1	Barium	25	0	Dixon	0.618	0	NA	NA	Yes	NA
PM-1	Barium	25	0	Dixon	0.5596	0	NA	NA	Yes	NA
Pooled Background	Barium	50	0	Rosner	1.965, 1.92, 1.41	NA	3.128, 3.12, 3.112	0	NA	NA
CAP-1	Beryllium	24	0	Dixon	0.2666	0.6072	NA	NA	No	NA
CAP-3	Beryllium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Beryllium	24	0	Dixon	0.6	0	NA	NA	Yes	NA
CAP-7	Beryllium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Beryllium	24	0	Dixon	0.3981	0.127	NA	NA	No	NA
CBW-1	Beryllium	24	23	Dixon	1	0	NA	NA	Yes	NA
PM-1	Beryllium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Beryllium	49	48	Rosner	6.854, 6.784, NA	NA	3.12, 3.112, 3.103	2	NA	NA
CAP-1	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-3	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-7	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Cadmium	24	22	Dixon	0.8286	0	NA	NA	Yes	NA
CBW-1	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
PM-1	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Cadmium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	NA
CAP-1	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-3	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Chromium	24	23	Dixon	1	0	NA	NA	Yes	NA
CAP-7	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CBW-1	Chromium	24	23	Dixon	1	0	NA	NA	Yes	NA
PM-1	Chromium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Chromium	47	46	Rosner	6.71, NA, NA	NA	3.103, 3.094, 3.085	1	NA	NA
CAP-1	Cobalt	24	0	Dixon	0.299	0.4484	NA	NA	No	NA
CAP-3	Cobalt	24	0	Dixon	0.6235	0	NA	NA	Yes	NA
CAP-5	Cobalt	24	0	Dixon	0.4828	0.02741	NA	NA	Yes	NA
CAP-7	Cobalt	24	0	Dixon	0.3529	0.2416	NA	NA	No	NA
CAP-9	Cobalt	24	0	Dixon	0.06714	0.1702	NA	NA	No	NA
CBW-1	Cobalt	25	1	Dixon	0.8296	0	NA	NA	Yes	NA
PM-1	Cobalt	25	1	Dixon	0.8193	0	NA	NA	Yes	NA
Pooled Background	Cobalt	50	2	Rosner	5.543, 5.568, 3.619	NA	3.128, 3.12, 3.112	3	NA	NA
CAP-1	Fluoride	24	1	Dixon	0.1488	0.6445	NA	NA	No	NA
CAP-3	Fluoride	24	18	Dixon	0.3333	0.3081	NA	NA	No	NA
CAP-5	Fluoride	24	0	Dixon	0.4	0.1234	NA	NA	No	NA
CAP-7	Fluoride	24	18	Dixon	0.9178	0	NA	NA	Yes	NA
CAP-9	Fluoride	24	0	Dixon	0.241	0.7469	NA	NA	No	NA
CBW-1	Fluoride	25	1	Dixon	0.1889	0.9497	NA	NA	No	NA
PM-1	Fluoride	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Fluoride	50	26	Rosner	2.323, 2.326, 2.324	NA	3.128, 3.12, 3.112	0	NA	NA
CAP-1	Lead	23	15	Dixon	0.8333	0	NA	NA	Yes	NA
CAP-3	Lead	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CAP-5	Lead	23	2	Dixon	0.3651	0.2252	NA	NA	No	NA
CAP-7	Lead	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Lead	24	1	Dixon	0.6644	0	NA	NA	Yes	NA
CBW-1	Lead	25	1	Dixon	0.843	0	NA	NA	Yes	NA
PM-1	Lead	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Lead	50	26	Rosner	3.423, 3.507, 4.123	NA	3.128, 3.12, 3.112	3	NA	NA
CAP-1	Lithium	24	0	Dixon	0.1407	0.5916	NA	NA	No	NA
CAP-3	Lithium	24	4	Dixon	0.875	0	NA	NA	Yes	NA
CAP-5	Lithium	24	2	Dixon	0.4718	0.03443	NA	NA	Yes	NA
CAP-7	Lithium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Lithium	24	0	Dixon	0.1762	0.8292	NA	NA	No	NA
CBW-1	Lithium	25	24	Dixon	0.6667	0	NA	NA	Yes	NA
PM-1	Lithium	25	21	Dixon	0.2063	0.9308	NA	NA	No	NA
Pooled Background	Lithium	50	45	Rosner	3.763, 2.934, 1.996	NA	3.128, 3.12, 3.112	1	NA	NA
CAP-1	Mercury	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-3	Mercury	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Mercury	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-7	Mercury	23	20	Dixon	0.95	0	NA	NA	Yes	NA
CAP-9	Mercury	23	20	Dixon	0.5	0.02229	NA	NA	Yes	NA
CBW-1	Mercury	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
PM-1	Mercury	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Mercury	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	NA
CAP-1	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-3	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-7	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Molybdenum	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CBW-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
PM-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Molybdenum	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	NA
CAP-1	Radium-226 & 228	23	8	Dixon	0.265	0.6489	NA	NA	No	NA
CAP-3	Radium-226 & 228	23	7	Dixon	0.1132	0.4013	NA	NA	No	NA
CAP-5	Radium-226 & 228	24	0	Dixon	0.3105	0.3979	NA	NA	No	NA
CAP-7	Radium-226 & 228	23	4	Dixon	0.1107	0.3866	NA	NA	No	NA
CAP-9	Radium-226 & 228	23	5	Dixon	0.1689	0.7467	NA	NA	No	NA
CBW-1	Radium-226 & 228	24	7	Dixon	0.2356	0.7784	NA	NA	No	NA
PM-1	Radium-226 & 228	24	6	Dixon	0.7504	0	NA	NA	Yes	NA
Pooled Background	Radium-226 & 228	48	13	Rosner	5.219, 2.507, 2.233	NA	3.112, 3.103, 3.094	1	NA	NA
CAP-1	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-3	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-7	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Selenium	21	18	Dixon	0.5238	0.02008	NA	NA	Yes	NA
CBW-1	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
PM-1	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Selenium	50	50	Rosner	All results are non-detect	NA	NA	NA	NA	NA
CAP-1	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-3	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-5	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-7	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CAP-9	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CBW-1	Thallium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
PM-1	Thallium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
Pooled Background	Thallium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	NA

Table A-4. Results of Mann Kendall Test

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CAP-1	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	20	2	0.717	NA	NA	NA	NA	8	2	2018-06-26 to 2025-01-14	0.47	0.681	0.0485	95.2	13
CAP-3	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	20	3	0.695	NA	NA	NA	NA	8	3	2018-06-20 to 2025-01-14	0.434	0.688	0.0426	95.7	15
CAP-5	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	20	2	0.712	NA	NA	NA	NA	8	2	2018-06-25 to 2025-01-15	0.405	0.367	0.324	67.6	7
CAP-7	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	20	2	0.714	NA	NA	NA	NA	8	2	2018-06-25 to 2025-01-15	0.439	0.367	0.324	67.6	7
CAP-9	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Probably Increasing	20	2	0.768	NA	NA	NA	NA	8	2	2018-06-25 to 2025-01-16	0.432	0.577	0.1	90	11
CBW-1 (Background)	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.704	NA	NA	NA	NA	8	1	2020-02-24 to 2025-01-14	0.411	NA	NA	NA	NA
PM-1 (Background)	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.688	NA	NA	NA	NA	8	1	2020-02-24 to 2025-01-14	0.408	NA	NA	NA	NA
Pooled Background	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Probably Increasing	46	2	0.689	NA	NA	NA	NA	8	2	2022-10-25 to 2025-01-14	0.455	0.577	0.1	90	11
CAP-1	Arsenic	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	25	1	0.27	NA	NA	NA	NA	8	1	2020-02-26 to 2025-01-14	0.417	NA	NA	NA	NA
CAP-3	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.282	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-14	0.471	NA	NA	NA	NA
CAP-5	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.282	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	0.471	NA	NA	NA	NA
CAP-7	Arsenic	Stable	Decreasing	25	9	0.529	-0.257	0.106	89.4	-62	8	3	2020-02-27 to 2025-01-15	0.642	-0.886	0.00528	99.5	-22
CAP-9	Arsenic	Stable	No Trend	25	22	0.338	-0.101	0.498	50.2	-30	8	6	2020-03-02 to 2025-01-16	0.511	0.214	0.536	46.4	6
CBW-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	3	0.899	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.244	NA	NA	NA	NA
PM-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	25	3	0.248	NA	NA	NA	NA	8	1	2020-02-24 to 2025-01-14	0.365	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	50	6	0.706	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA
CAP-1	Barium	Decreasing	Stable	25	25	0.339	-0.353	0.0142	98.6	-106	8	8	2020-02-26 to 2025-01-14	0.353	-0.286	0.386	61.4	-8
CAP-3	Barium	Decreasing	Stable	25	25	0.446	-0.308	0.0335	96.7	-92	8	8	2020-02-27 to 2025-01-14	0.248	-0.214	0.536	46.4	-6
CAP-5	Barium	No Trend	Stable	25	25	0.125	0.221	0.129	87.1	66	8	8	2020-02-27 to 2025-01-15	0.093	-0.429	0.174	82.6	-12
CAP-7	Barium	Increasing	Stable	25	25	0.168	0.428	0.003	99.7	128	8	8	2020-02-27 to 2025-01-15	0.187	-0.357	0.266	73.4	-10
CAP-9	Barium	Decreasing	No Trend	25	25	0.399	-0.644	0.00000728	100	-193	8	8	2020-03-02 to 2025-01-16	0.285	0.143	0.711	28.9	4
CBW-1 (Background)	Barium	Decreasing	Stable	25	25	0.118	-0.383	0.00824	99.2	-114	8	8	2020-02-24 to 2025-01-14	0.103	-0.0714	0.902	9.8	-2
PM-1 (Background)	Barium	Stable	Stable	25	25	0.0937	-0.127	0.387	61.3	-38	8	8	2020-02-24 to 2025-01-14	0.0452	0	1	0	0
Pooled Background	Barium	Stable	No Trend	50	50	0.334	-0.107	0.277	72.3	-131	8	8	2022-10-25 to 2025-01-14	0.364	0.143	0.711	28.9	4
CAP-1	Beryllium	Increasing	Stable	24	24	0.47	0.404	0.00631	99.4	111	8	8	2020-02-26 to 2025-01-14	0.253	-0.327	0.319	68.1	-9
CAP-3	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-14	0.314	NA	NA	NA	NA
CAP-5	Beryllium	Increasing	Decreasing	24	24	0.193	0.315	0.0362	96.4	85	8	8	2020-02-27 to 2025-01-15	0.17	-0.764	0.0126	98.7	-21
CAP-7	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	0.314	NA	NA	NA	NA
CAP-9	Beryllium	Probably Increasing	Stable	24	24	0.17	0.285	0.0558	94.4	78	8	8	2020-03-02 to 2025-01-16	0.128	-0.214	0.536	46.4	-6
CBW-1 (Background)	Beryllium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.292	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0	NA	NA	NA	NA
PM-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.32	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	1.5	NA	NA	NA	NA
Pooled Background	Beryllium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	49	1	1.07	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CAP-1	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2020-02-26 to 2025-01-14	1.32	NA	NA	NA	NA
CAP-3	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-14	1.32	NA	NA	NA	NA
CAP-5	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	1.32	NA	NA	NA	NA
CAP-7	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	1.32	NA	NA	NA	NA
CAP-9	Cadmium	Not Evaluated - Majority of data (>75%) non-detect.	Stable	24	2	1.1	NA	NA	NA	NA	8	2	2020-03-02 to 2025-01-16	0.966	-0.535	0.115	88.5	-12
CBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	1.32	NA	NA	NA	NA
PM-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.37	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	1.25	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	1.28	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA
CAP-1	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2020-02-26 to 2025-01-14	0.314	NA	NA	NA	NA
CAP-3	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-14	0.314	NA	NA	NA	NA
CAP-5	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	1.3	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	0.314	NA	NA	NA	NA
CAP-7	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	0.314	NA	NA	NA	NA
CAP-9	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2020-03-02 to 2025-01-16	0.314	NA	NA	NA	NA
CBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.788	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0	NA	NA	NA	NA
PM-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2019-02-12 to 2025-01-14	0	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	47	1	0.611	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA
CAP-1	Cobalt	Increasing	No Trend	24	24	0.339	0.374	0.0114	98.9	103	8	8	2020-02-26 to 2025-01-14	0.225	0.286	0.386	61.4	8
CAP-3	Cobalt	No Trend	Decreasing	24	24	0.137	0.201	0.18	82	55	8	8	2020-02-27 to 2025-01-14	0.102	-0.643	0.0354	96.5	-18
CAP-5	Cobalt	Increasing	Decreasing	24	24	0.169	0.426	0.00398	99.6	117	8	8	2020-02-27 to 2025-01-15	0.127	-0.643	0.0354	96.5	-18
CAP-7	Cobalt	Decreasing	Decreasing	24	24	0.185	-0.434	0.00339	99.7	-119	8	8	2020-02-27 to 2025-01-15	0.236	-0.909	0.00277	99.7	-25
CAP-9	Cobalt	Increasing	No Trend	24	24	0.258	0.553	0.000178	100	152	8	8	2020-03-02 to 2025-01-16	0.354	0.0714	0.902	9.8	2
CBW-1 (Background)	Cobalt	Decreasing	Increasing	25	24	0.554	-0.566	0.0000861	100	-169	8	7	2020-02-24 to 2025-01-14	0.168	0.643	0.0354	96.5	18
PM-1 (Background)	Cobalt	Increasing	Stable	25	24	0.354	0.596	0.0000504	100	173	8	7	2020-02-24 to 2025-01-14	0.296	-0.0364	1	0	-1
Pooled Background	Cobalt	Stable	No Trend	50	48	0.453	-0.0978	0.326	67.4	-118	8	8	2022-10-25 to 2025-01-14	0.306	0.182	0.618	38.2	5
CAP-1	Fluoride	Increasing	Stable	24	23	0.596	0.541	0.00024	100	149	8	8	2020-02-26 to 2025-01-14	0.324	-0.286	0.386	61.4	-8
CAP-3	Fluoride	Probably Decreasing	Not Evaluated - Only one detected result.	24	6	0.445	-0.283	0.094	90.6	-52	8	1	2020-02-27 to 2025-01-14	0.32	NA	NA	NA	NA
CAP-5	Fluoride	No Trend	Stable	24	24	0.274	0.0551	0.728	27.2	15	8	8	2020-02-27 to 2025-01-15	0.128	-0.182	0.618	38.2	-5
CAP-7	Fluoride	No Trend	Not Evaluated - Only one detected result.	24	6	1.56	-0.199	0.238	76.2	-39	8	1	2020-02-27 to 2025-01-15	1.81	NA	NA	NA	NA
CAP-9	Fluoride	No Trend	No Trend	24	24	0.455	0.178	0.234	76.6	49	8	8	2020-03-02 to 2025-01-16	0.544	0.286	0.386	61.4	8
CBW-1 (Background)	Fluoride	Decreasing	Stable	25	24	0.285	-0.69	0.0000024	100	-202	8	7	2020-02-24 to 2025-01-14	0.37	-0.357	0.266	73.4	-10
PM-1 (Background)	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0	NA	NA	NA	NA
Pooled Background	Fluoride	Decreasing	Stable	50	24	0.687	-0.228	0.032	96.8	-238	8	4	2022-10-25 to 2025-01-14	0.632	-0.242	0.507	49.3	-6
CAP-1	Lead	Increasing	Stable	23	8	0.775	0.373	0.0209	97.9	85	8	3	2020-02-26 to 2025-01-14	0.746	-0.0378	1	0	-1
CAP-3	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	1.11	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-14	1.13	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CAP-5	Lead	Increasing	No Trend	23	21	0.294	0.426	0.00505	99.5	107	8	7	2020-02-27 to 2025-01-15	0.259	0.0364	1	0	1
CAP-7	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	1.22	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	1.13	NA	NA	NA	NA
CAP-9	Lead	Increasing	No Trend	24	23	0.489	0.457	0.00193	99.8	126	8	7	2020-06-29 to 2025-01-16	0.545	0.143	0.711	28.9	4
CBW-1 (Background)	Lead	Decreasing	Decreasing	25	24	0.533	-0.563	0.000111	100	-166	8	7	2020-02-24 to 2025-01-14	0.339	-0.857	0.00443	99.6	-24
PM-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.27	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	1.1	NA	NA	NA	NA
Pooled Background	Lead	Stable	Stable	50	24	0.889	-0.123	0.234	76.6	-139	8	4	2022-10-25 to 2025-01-14	0.693	-0.322	0.352	64.8	-8
CAP-1	Lithium	Probably Increasing	No Trend	24	24	0.373	0.287	0.0529	94.7	79	8	8	2020-02-26 to 2025-01-14	0.308	0.357	0.266	73.4	10
CAP-3	Lithium	Probably Increasing	Stable	24	20	0.349	0.258	0.0892	91.1	69	8	8	2020-02-27 to 2025-01-14	0.195	-0.214	0.536	46.4	-6
CAP-5	Lithium	Increasing	Stable	24	22	0.308	0.408	0.00711	99.3	108	8	7	2020-02-27 to 2025-01-15	0.377	-0.357	0.266	73.4	-10
CAP-7	Lithium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.86	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	0.314	NA	NA	NA	NA
CAP-9	Lithium	Increasing	Probably Increasing	24	24	0.234	0.547	0.000215	100	150	8	8	2020-03-02 to 2025-01-16	0.246	0.571	0.0635	93.7	16
CBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	25	1	0.412	NA	NA	NA	NA	8	1	2020-02-24 to 2025-01-14	0.453	NA	NA	NA	NA
PM-1 (Background)	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Stable	25	4	0.212	NA	NA	NA	NA	8	4	2020-02-24 to 2025-01-14	0.336	-0.0378	1	0	-1
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	50	5	0.32	NA	NA	NA	NA	8	2	2022-10-25 to 2025-01-14	0.389	0.262	0.511	48.9	5
CAP-1	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.722	NA	NA	NA	NA	8	0	2020-02-26 to 2025-01-14	0	NA	NA	NA	NA
CAP-3	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.71	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-14	0	NA	NA	NA	NA
CAP-5	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.71	NA	NA	NA	NA	8	0	2020-02-27 to 2025-01-15	0	NA	NA	NA	NA
CAP-7	Mercury	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	23	3	0.69	NA	NA	NA	NA	8	1	2020-02-27 to 2025-01-15	0.496	NA	NA	NA	NA
CAP-9	Mercury	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	23	3	0.9	NA	NA	NA	NA	8	1	2020-03-02 to 2025-01-16	1.05	NA	NA	NA	NA
CBW-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.68	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.314	NA	NA	NA	NA
PM-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.709	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.566	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	50	0	0.689	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA
CAP-1	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.297	NA	NA	NA	NA	8	0	2018-06-26 to 2025-01-14	0.314	NA	NA	NA	NA
CAP-3	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.297	NA	NA	NA	NA	8	0	2018-06-20 to 2025-01-14	0.314	NA	NA	NA	NA
CAP-5	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.297	NA	NA	NA	NA	8	0	2018-06-25 to 2025-01-15	0.314	NA	NA	NA	NA
CAP-7	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.943	NA	NA	NA	NA	8	0	2018-06-25 to 2025-01-15	0.314	NA	NA	NA	NA
CAP-9	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.771	NA	NA	NA	NA	8	0	2018-06-25 to 2025-01-16	0.314	NA	NA	NA	NA
CBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.377	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.314	NA	NA	NA	NA
PM-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.277	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.331	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA
CAP-1	Radium-226 & 228	Probably Increasing	Stable	23	15	0.425	0.264	0.0937	90.6	63	8	8	2020-02-26 to 2025-01-14	0.21	-0.429	0.174	82.6	-12
CAP-3	Radium-226 & 228	Probably Decreasing	Stable	23	16	0.492	-0.302	0.0533	94.7	-73	8	8	2020-02-27 to 2025-01-14	0.577	-0.143	0.711	28.9	-4
CAP-5	Radium-226 & 228	No Trend	Stable	24	24	0.222	0.0835	0.585	41.5	23	8	8	2020-06-30 to 2025-01-15	0.274	-0.0364	1	0	-1
CAP-7	Radium-226 & 228	Stable	No Trend	23	19	0.489	-0.004	1	0	-1	8	8	2020-02-27 to 2025-01-15	0.49	0.214	0.536	46.4	6

Note:
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		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CAP-9	Radium-226 & 228	Increasing	No Trend	23	18	0.47	0.343	0.0256	97.4	85	8	8	2020-03-02 to 2025-01-16	0.392	0.5	0.108	89.2	14
CBW-1 (Background)	Radium-226 & 228	Stable	Stable	24	17	0.626	-0.192	0.209	79.1	-51	8	8	2020-02-24 to 2025-01-14	0.514	-0.214	0.536	46.4	-6
PM-1 (Background)	Radium-226 & 228	No Trend	Stable	24	18	1.02	-0.205	0.177	82.3	-55	8	8	2020-02-24 to 2025-01-14	0.426	-0.357	0.266	73.4	-10
Pooled Background	Radium-226 & 228	Probably Decreasing	Decreasing	48	35	0.891	-0.169	0.1	90	-184	8	8	2022-10-25 to 2025-01-14	0.64	-0.643	0.0354	96.5	-18
CAP-1	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.421	NA	NA	NA	NA	8	0	2018-10-02 to 2025-01-14	0.589	NA	NA	NA	NA
CAP-3	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.421	NA	NA	NA	NA	8	0	2018-10-01 to 2025-01-14	0.589	NA	NA	NA	NA
CAP-5	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.421	NA	NA	NA	NA	8	0	2018-10-01 to 2025-01-15	0.589	NA	NA	NA	NA
CAP-7	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.421	NA	NA	NA	NA	8	0	2018-10-01 to 2025-01-15	0.589	NA	NA	NA	NA
CAP-9	Selenium	Not Evaluated - Majority of data (>75%) non-detect.	Stable	21	3	0.818	NA	NA	NA	NA	8	2	2018-10-01 to 2025-01-16	0.607	-0.403	0.232	76.8	-10
CBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.693	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.994	NA	NA	NA	NA
PM-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.366	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0.524	NA	NA	NA	NA
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	50	0	0.576	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA
CAP-1	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-26 to 2025-01-14	0	NA	NA	NA	NA
CAP-3	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-20 to 2025-01-14	0	NA	NA	NA	NA
CAP-5	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-25 to 2025-01-15	0	NA	NA	NA	NA
CAP-7	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-25 to 2025-01-15	0	NA	NA	NA	NA
CAP-9	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-25 to 2025-01-16	0	NA	NA	NA	NA
CBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	0	NA	NA	NA	NA
PM-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	1.35	NA	NA	NA	NA	8	0	2020-02-24 to 2025-01-14	1.5	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	1.11	NA	NA	NA	NA	8	0	2022-10-25 to 2025-01-14	0	NA	NA	NA	NA

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance.

Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS)

		Interwell Background Data Characterization [a]												Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		
Constituent	Units	n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method	UTL calculation details	Minimum Coverage (%)
Antimony	mg/L	46	44	0.025	0.0059	0.00601	0.005	2015-10-19	2025-01-14	0.00416	0.692	No Trend	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Arsenic	mg/L	50	44	0.01	0.016	0.00512	0.005	2015-10-19	2025-01-14	0.00186	0.364	Probably Decreasing	Not normal (Interwell Background)	NA - Original Data	0.016	Yes	0.01	0.016	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Barium	mg/L	50	0	NA	0.103	0.0622	0.0656	2015-10-19	2025-01-14	0.0208	0.334	Stable	Not normal (Interwell Background)	NA - Original Data	0.103	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Beryllium	mg/L	49	48	0.005	0.00063	0.000594	0.0005	2015-10-19	2025-01-14	0.000643	1.08	No Trend	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.004	0.005	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.1
Cadmium	mg/L	48	48	0.005	NA	0.00074	0.0005	2015-10-19	2025-01-14	0.000945	1.28	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Chromium	mg/L	47	46	0.005	0.014	0.00519	0.005	2015-10-19	2025-01-14	0.00131	0.253	Probably Decreasing	Not normal (Interwell Background)	NA - Original Data	0.014	Yes	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.8
Cobalt	mg/L	50	2	0.005	0.0034	0.00111	0.00092	2015-10-19	2025-01-14	0.000702	0.632	Stable	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.006	0.006	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Fluoride	mg/L	50	26	0.1	0.3	0.152	0.1	2015-10-19	2025-01-14	0.0638	0.421	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.3	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lead	mg/L	50	26	0.01	0.011	0.0027	0.0025	2015-10-19	2025-01-14	0.00243	0.899	Stable	Not normal (Interwell Background)	NA - Original Data	0.011	Yes	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lithium	mg/L	50	45	0.02	0.00544	0.0085	0.01	2015-10-19	2025-01-14	0.00306	0.359	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Mercury	mg/L	50	50	0.001	NA	0.000244	0.0002	2015-10-19	2025-01-14	0.000168	0.689	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Molybdenum	mg/L	46	46	0.02	NA	0.0087	0.01	2015-10-19	2025-01-14	0.00287	0.331	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Radium-226 & 228	pCi/L	48	13	4	16.3	3.35	3.57	2015-10-19	2025-01-14	2.48	0.742	Decreasing	Not normal (Interwell Background)	NA - Original Data	16.3	Yes	5	16.3	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Selenium	mg/L	50	50	0.05	NA	0.0115	0.01	2015-10-19	2025-01-14	0.00663	0.576	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Thallium	mg/L	46	46	0.01	NA	0.0012	0.001	2015-10-19	2025-01-14	0.00133	1.11	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.002	0.01	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells (CBW-1 and PM-1). Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

			Confidence Interval (CI) Dataset						CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics	
Location	Chemical	Units	n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
CAP-1	Beryllium	mg/L	24	0.0116	0.00051	0.00644	0.00646	0.00304	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.00775	0.00518	0.005	Yes, SSL	NA	NA
CAP-9	Beryllium	mg/L	24	0.0245	0.0123	0.0165	0.0169	0.00287	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.0181	0.0157	0.005	Yes, SSL	NA	NA
CAP-1	Cobalt	mg/L	24	0.0287	0.0036	0.017	0.018	0.0061	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.0205	0.0154	0.006	Yes, SSL	NA	NA
CAP-3	Cobalt	mg/L	24	0.0328	0.0142	0.027	0.0271	0.0037	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.0286	0.0254	0.006	Yes, SSL	10000	0.027
CAP-5	Cobalt	mg/L	24	0.0174	0.0068	0.0135	0.0133	0.00225	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.0143	0.0124	0.006	Yes, SSL	NA	NA
CAP-9	Cobalt	mg/L	24	0.0501	0.0155	0.036	0.0343	0.00886	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.0381	0.0306	0.006	Yes, SSL	NA	NA
CAP-9	Fluoride	mg/L	24	4.62	0.5	2.18	2.6	1.19	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	3.56	1.8	4.000	No	10000	2.185
CAP-1	Lithium	mg/L	24	0.192	0.0258	0.104	0.107	0.04	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.124	0.0904	0.040	Yes, SSL	NA	NA
CAP-9	Lithium	mg/L	24	0.104	0.038	0.064	0.0703	0.0164	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.0722	0.062	0.040	Yes, SSL	10000	0.064

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

[a] The 95% lower confience level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

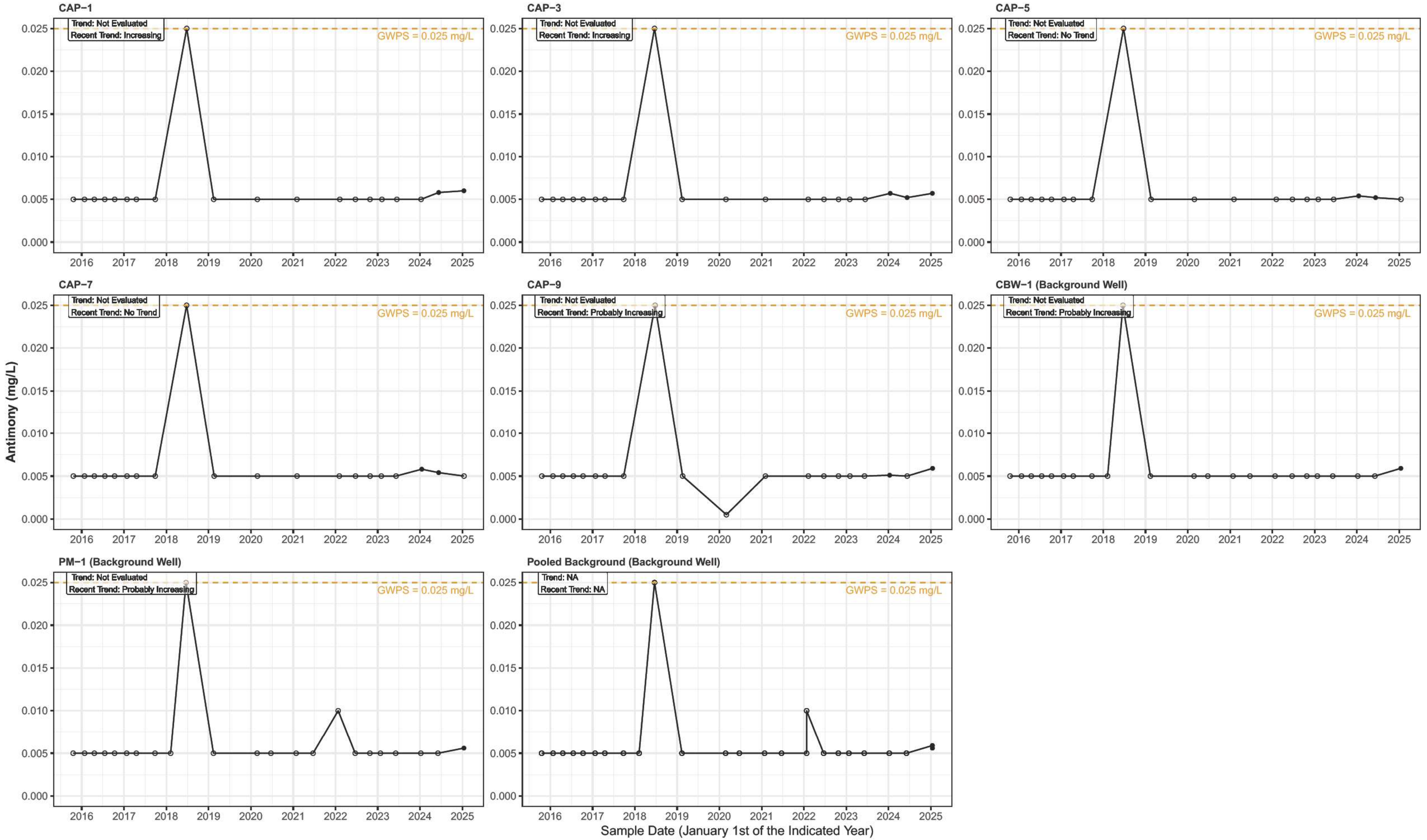
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CAP-1	Beryllium	mg/L	2025-01-14	0.0073	0.005	0.005	Yes	0.00518	Yes
CAP-9	Beryllium	mg/L	2025-01-16	0.0202	0.005	0.005	Yes	0.0157	Yes
CAP-1	Cobalt	mg/L	2025-01-14	0.0233	0.005	0.006	Yes	0.0154	Yes
CAP-3	Cobalt	mg/L	2025-01-14	0.0248	0.005	0.006	Yes	0.0254	Yes
CAP-5	Cobalt	mg/L	2025-01-15	0.0122	0.005	0.006	Yes	0.0124	Yes
CAP-9	Cobalt	mg/L	2025-01-16	0.0438	0.005	0.006	Yes	0.0306	Yes
CAP-1	Lithium	mg/L	2025-01-14	0.173	0.02	0.04	Yes	0.0904	Yes
CAP-9	Lithium	mg/L	2025-01-16	0.104	0.02	0.04	Yes	0.062	Yes
CAP-1	Antimony	mg/L	2025-01-14	0.006	0.025	0.025	No	NA	No
CAP-3	Antimony	mg/L	2025-01-14	0.0057	0.025	0.025	No	NA	No
CAP-5	Antimony	mg/L	2025-01-15	0.005	0.025	0.025	No	NA	No
CAP-7	Antimony	mg/L	2025-01-15	0.005	0.025	0.025	No	NA	No
CAP-9	Antimony	mg/L	2025-01-16	0.0059	0.025	0.025	No	NA	No
CAP-1	Arsenic	mg/L	2025-01-14	0.005	0.016	0.016	No	NA	No
CAP-3	Arsenic	mg/L	2025-01-14	0.005	0.016	0.016	No	NA	No
CAP-5	Arsenic	mg/L	2025-01-15	0.005	0.016	0.016	No	NA	No
CAP-7	Arsenic	mg/L	2025-01-15	0.005	0.016	0.016	No	NA	No
CAP-9	Arsenic	mg/L	2025-01-16	0.0072	0.016	0.016	No	NA	No
CAP-1	Barium	mg/L	2025-01-14	0.0196	0.103	2	No	NA	No
CAP-3	Barium	mg/L	2025-01-14	0.0684	0.103	2	No	NA	No
CAP-5	Barium	mg/L	2025-01-15	1.22	0.103	2	No	NA	No
CAP-7	Barium	mg/L	2025-01-15	0.0366	0.103	2	No	NA	No
CAP-9	Barium	mg/L	2025-01-16	0.0302	0.103	2	No	NA	No
CAP-3	Beryllium	mg/L	2025-01-14	0.0005	0.005	0.005	No	NA	No
CAP-5	Beryllium	mg/L	2025-01-15	0.0039	0.005	0.005	No	NA	No
CAP-7	Beryllium	mg/L	2025-01-15	0.0005	0.005	0.005	No	NA	No
CAP-1	Cadmium	mg/L	2025-01-14	0.0005	0.005	0.005	No	NA	No
CAP-3	Cadmium	mg/L	2025-01-14	0.0005	0.005	0.005	No	NA	No
CAP-5	Cadmium	mg/L	2025-01-15	0.0005	0.005	0.005	No	NA	No
CAP-7	Cadmium	mg/L	2025-01-15	0.0005	0.005	0.005	No	NA	No
CAP-9	Cadmium	mg/L	2025-01-16	0.0005	0.005	0.005	No	NA	No
CAP-1	Chromium	mg/L	2025-01-14	0.005	0.014	0.1	No	NA	No
CAP-3	Chromium	mg/L	2025-01-14	0.005	0.014	0.1	No	NA	No
CAP-5	Chromium	mg/L	2025-01-15	0.005	0.014	0.1	No	NA	No
CAP-7	Chromium	mg/L	2025-01-15	0.005	0.014	0.1	No	NA	No
CAP-9	Chromium	mg/L	2025-01-16	0.005	0.014	0.1	No	NA	No
CAP-7	Cobalt	mg/L	2025-01-15	0.006	0.005	0.006	No	NA	No
CAP-1	Fluoride	mg/L	2025-01-14	1.64	0.3	4	No	NA	No
CAP-3	Fluoride	mg/L	2025-01-14	0.101	0.3	4	No	NA	No
CAP-5	Fluoride	mg/L	2025-01-15	0.552	0.3	4	No	NA	No
CAP-7	Fluoride	mg/L	2025-01-15	0.165	0.3	4	No	NA	No
CAP-9	Fluoride	mg/L	2025-01-16	4.46	0.3	4	Yes	1.8	No
CAP-1	Lead	mg/L	2025-01-14	0.0014	0.011	0.015	No	NA	No
CAP-3	Lead	mg/L	2025-01-14	0.001	0.011	0.015	No	NA	No
CAP-5	Lead	mg/L	2025-01-15	0.0071	0.011	0.015	No	NA	No
CAP-7	Lead	mg/L	2025-01-15	0.001	0.011	0.015	No	NA	No
CAP-9	Lead	mg/L	2025-01-16	0.015	0.011	0.015	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CAP-3	Lithium	mg/L	2025-01-14	0.0112	0.02	0.04	No	NA	No
CAP-5	Lithium	mg/L	2025-01-15	0.017	0.02	0.04	No	NA	No
CAP-7	Lithium	mg/L	2025-01-15	0.005	0.02	0.04	No	NA	No
CAP-1	Mercury	mg/L	2025-01-14	0.0002	0.001	0.002	No	NA	No
CAP-3	Mercury	mg/L	2025-01-14	0.0002	0.001	0.002	No	NA	No
CAP-5	Mercury	mg/L	2025-01-15	0.0002	0.001	0.002	No	NA	No
CAP-7	Mercury	mg/L	2025-01-15	0.0002	0.001	0.002	No	NA	No
CAP-9	Mercury	mg/L	2025-01-16	0.0002	0.001	0.002	No	NA	No
CAP-1	Molybdenum	mg/L	2025-01-14	0.005	0.02	0.1	No	NA	No
CAP-3	Molybdenum	mg/L	2025-01-14	0.005	0.02	0.1	No	NA	No
CAP-5	Molybdenum	mg/L	2025-01-15	0.005	0.02	0.1	No	NA	No
CAP-7	Molybdenum	mg/L	2025-01-15	0.005	0.02	0.1	No	NA	No
CAP-9	Molybdenum	mg/L	2025-01-16	0.005	0.02	0.1	No	NA	No
CAP-1	Radium-226 & 228	pCi/L	2025-01-14	1.64	16.3	16.3	No	NA	No
CAP-3	Radium-226 & 228	pCi/L	2025-01-14	2.15	16.3	16.3	No	NA	No
CAP-5	Radium-226 & 228	pCi/L	2025-01-15	8.48	16.3	16.3	No	NA	No
CAP-7	Radium-226 & 228	pCi/L	2025-01-15	4.57	16.3	16.3	No	NA	No
CAP-9	Radium-226 & 228	pCi/L	2025-01-16	4.59	16.3	16.3	No	NA	No
CAP-1	Selenium	mg/L	2025-01-14	0.01	0.05	0.05	No	NA	No
CAP-3	Selenium	mg/L	2025-01-14	0.01	0.05	0.05	No	NA	No
CAP-5	Selenium	mg/L	2025-01-15	0.01	0.05	0.05	No	NA	No
CAP-7	Selenium	mg/L	2025-01-15	0.01	0.05	0.05	No	NA	No
CAP-9	Selenium	mg/L	2025-01-16	0.01	0.05	0.05	No	NA	No
CAP-1	Thallium	mg/L	2025-01-14	0.001	0.01	0.01	No	NA	No
CAP-3	Thallium	mg/L	2025-01-14	0.001	0.01	0.01	No	NA	No
CAP-5	Thallium	mg/L	2025-01-15	0.001	0.01	0.01	No	NA	No
CAP-7	Thallium	mg/L	2025-01-15	0.001	0.01	0.01	No	NA	No
CAP-9	Thallium	mg/L	2025-01-16	0.001	0.01	0.01	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

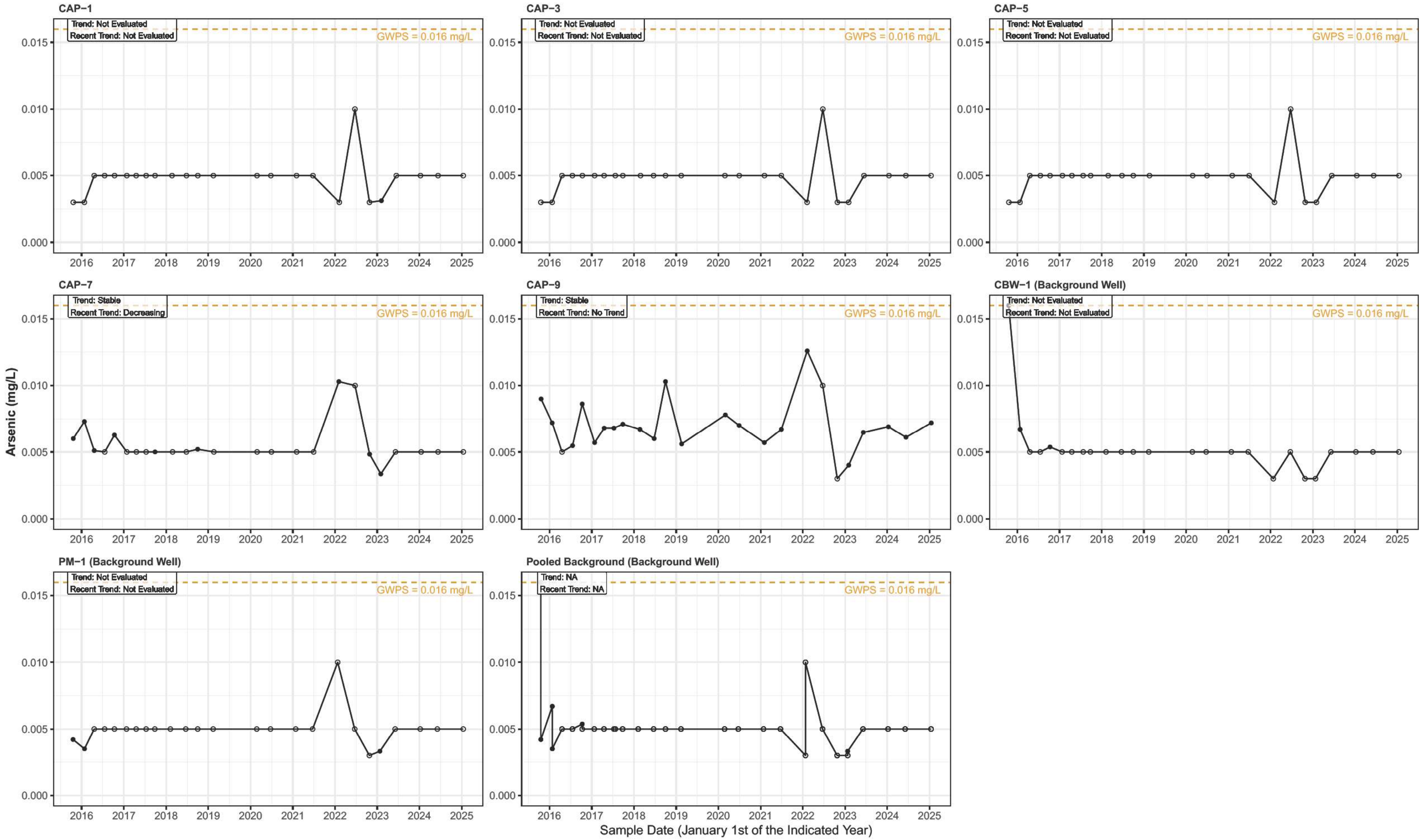
Trend Analysis for Antimony



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

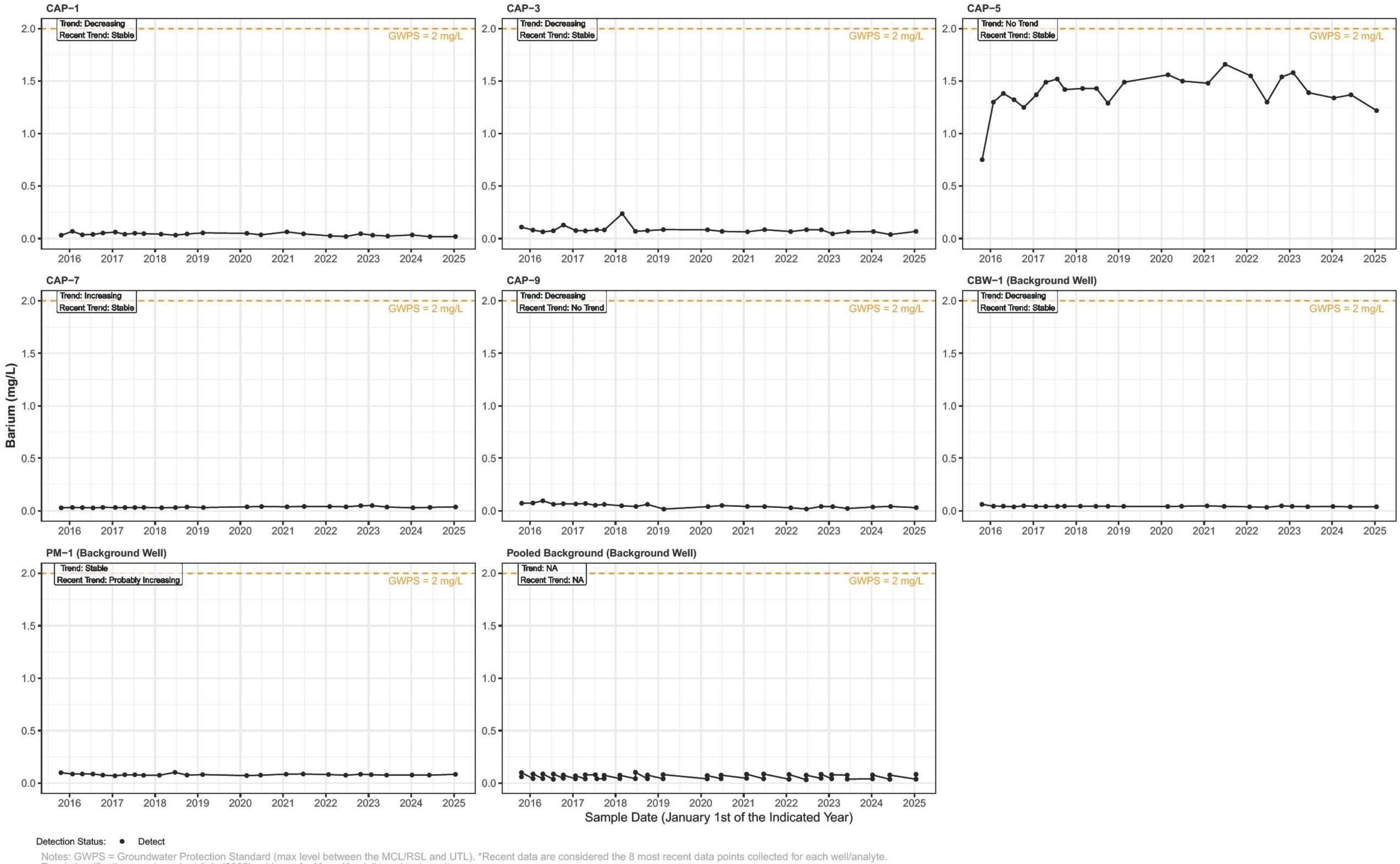
Trend Analysis for Arsenic



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

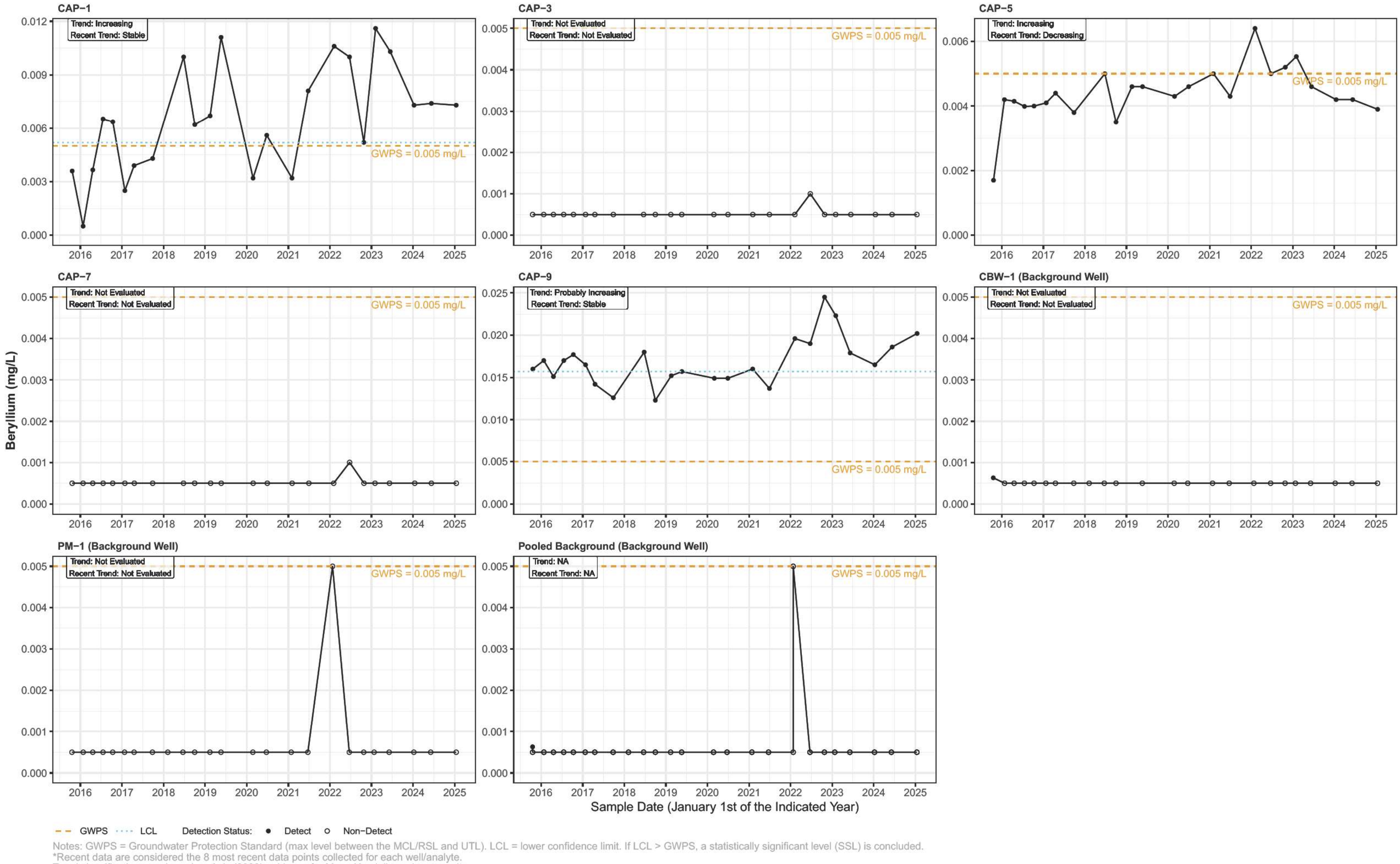
Trend Analysis for Barium



Detection Status: ● Detect

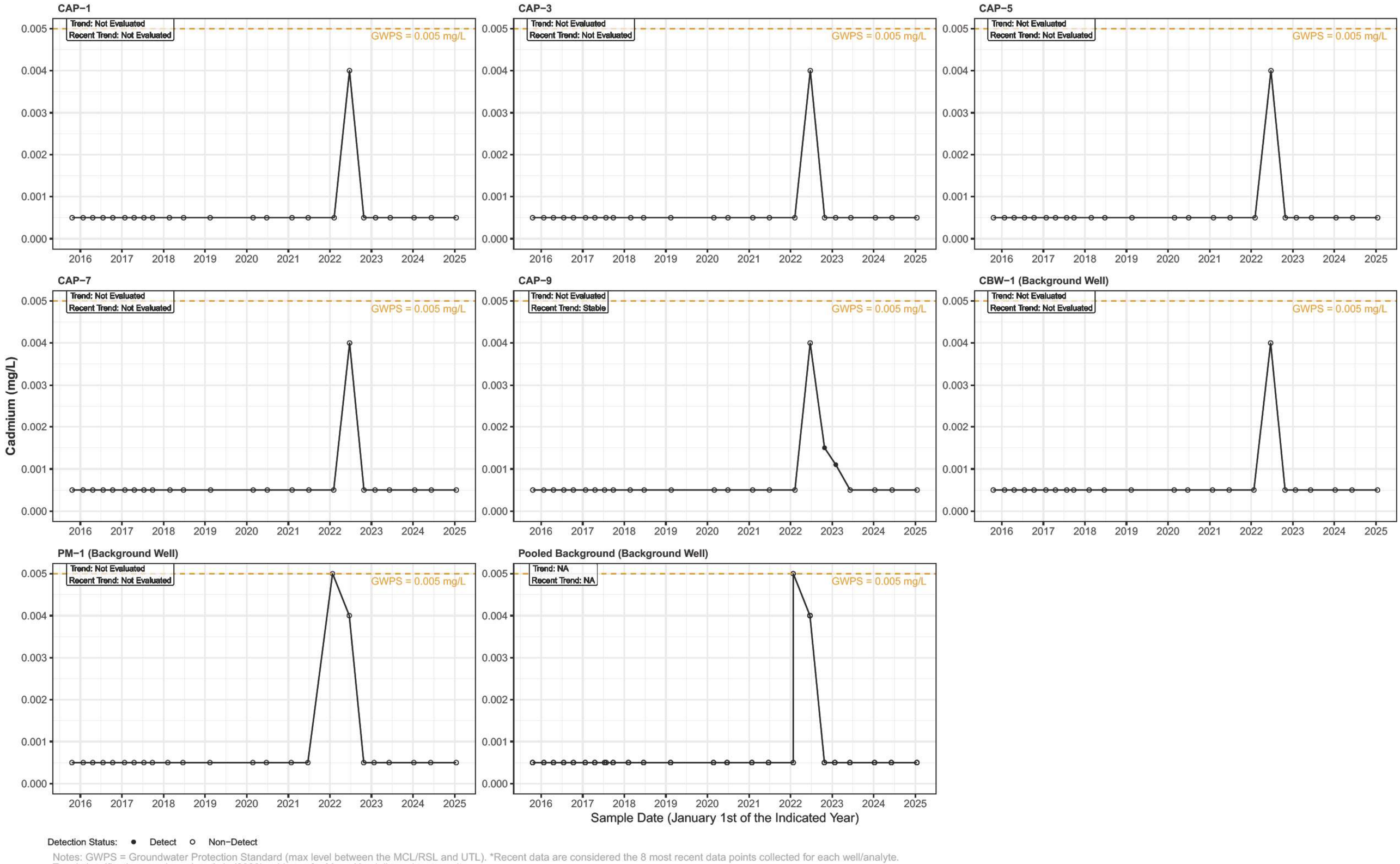
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis Plots for Beryllium



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

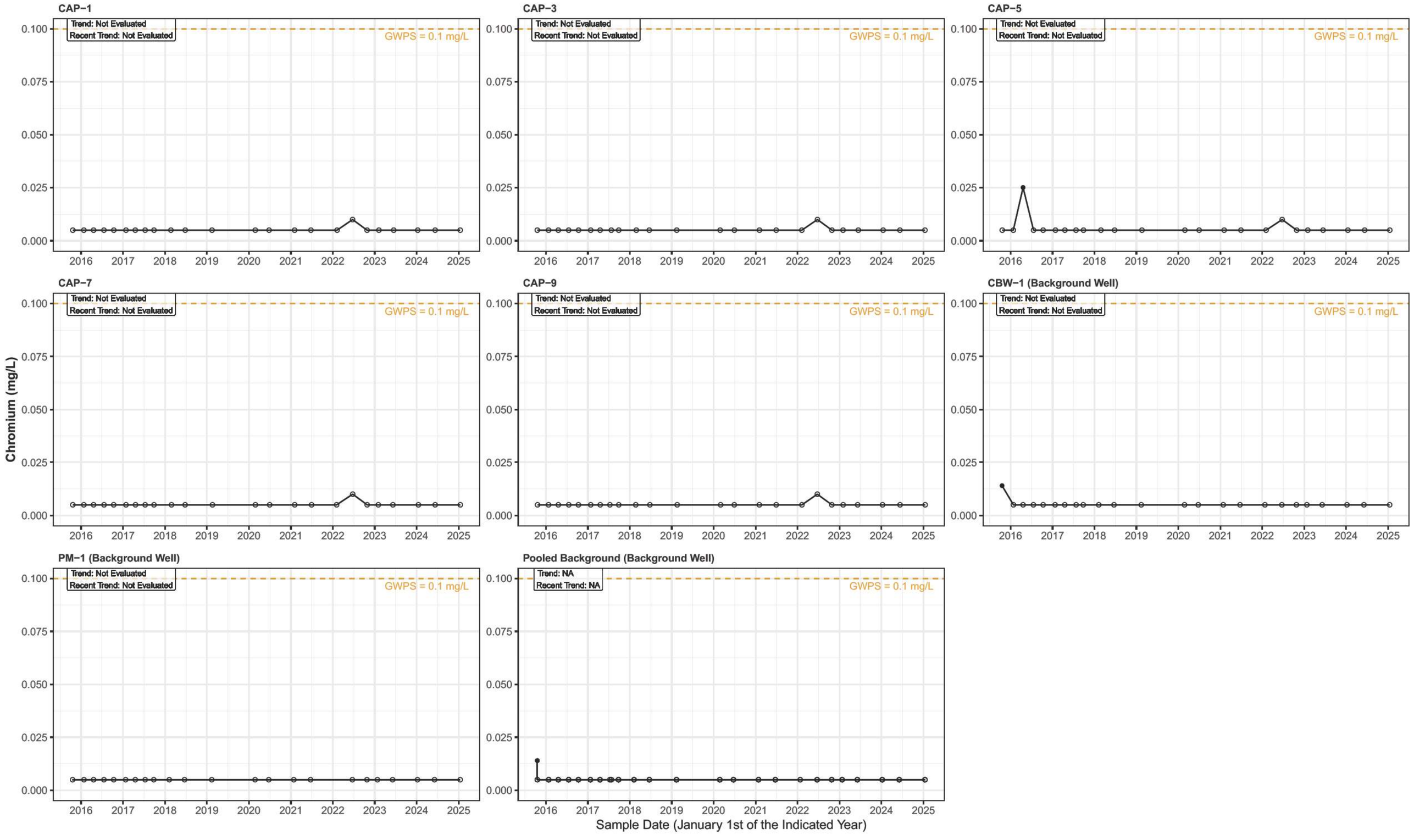
Trend Analysis for Cadmium



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

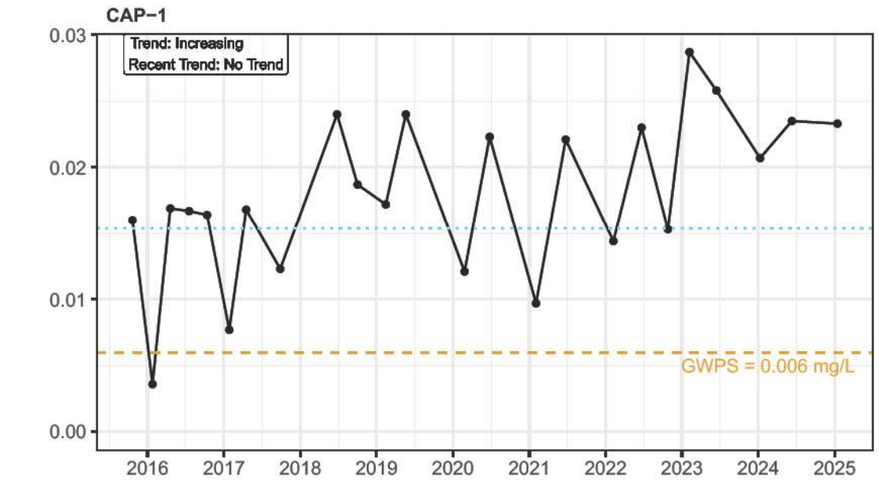
Trend Analysis for Chromium

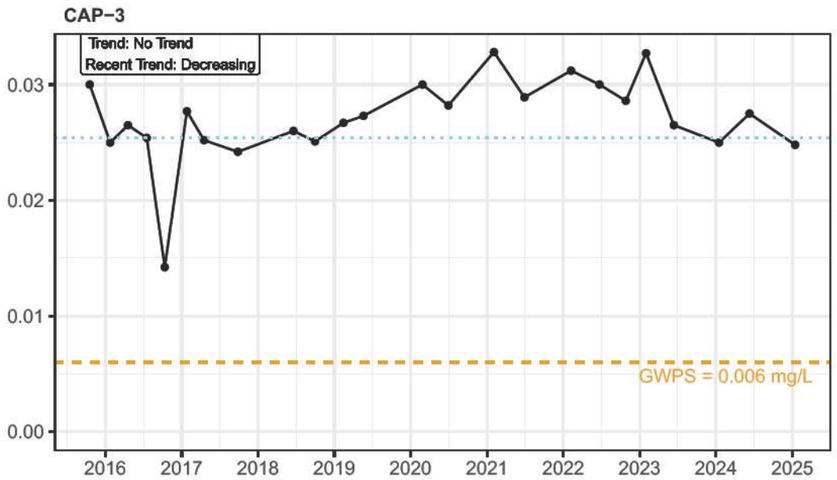


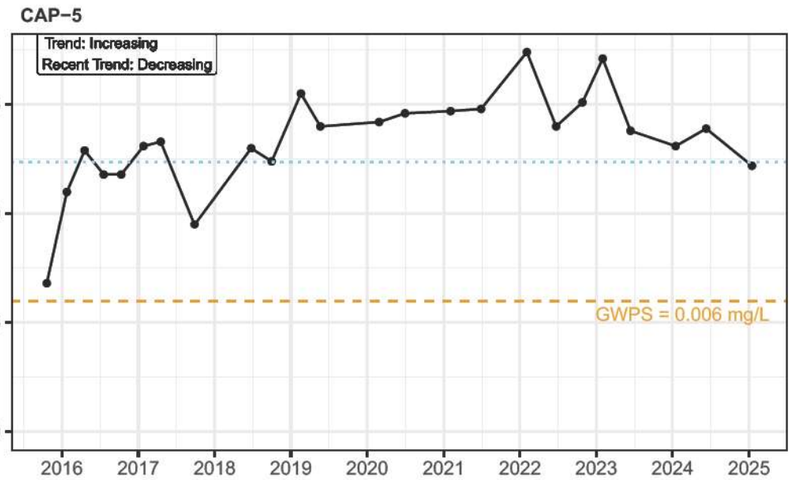
Detection Status: ● Detect ○ Non−Detect

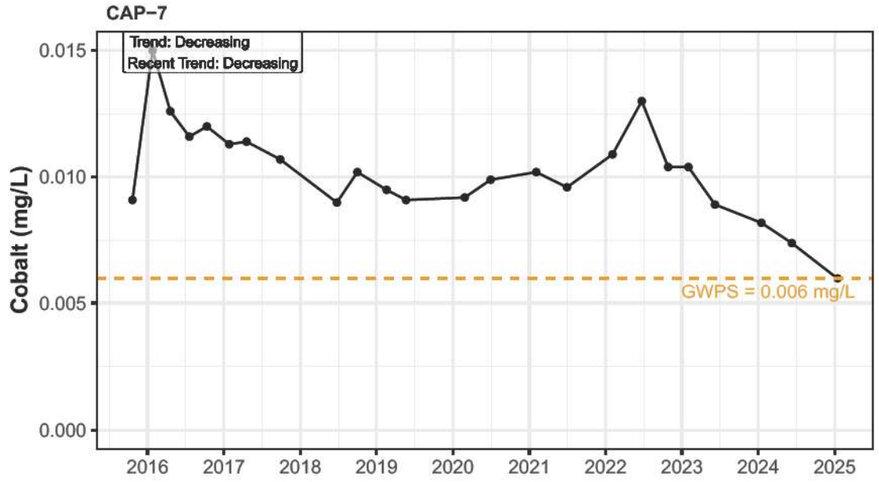
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

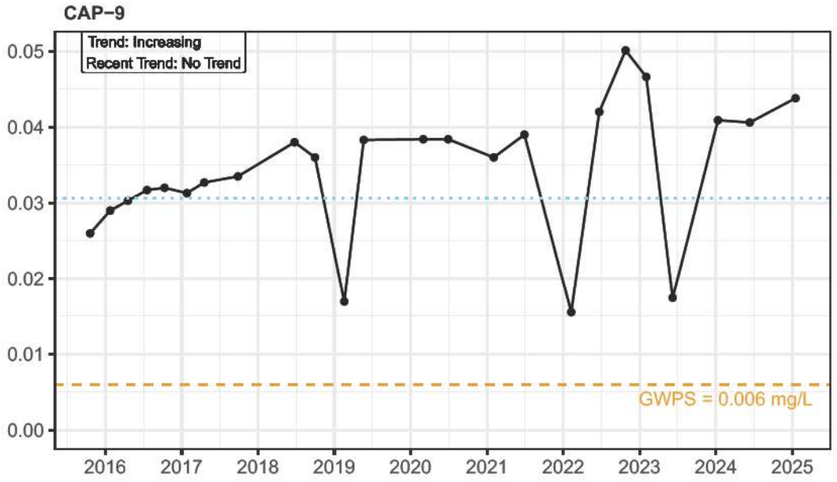
Trend Analysis Plots for Cobalt

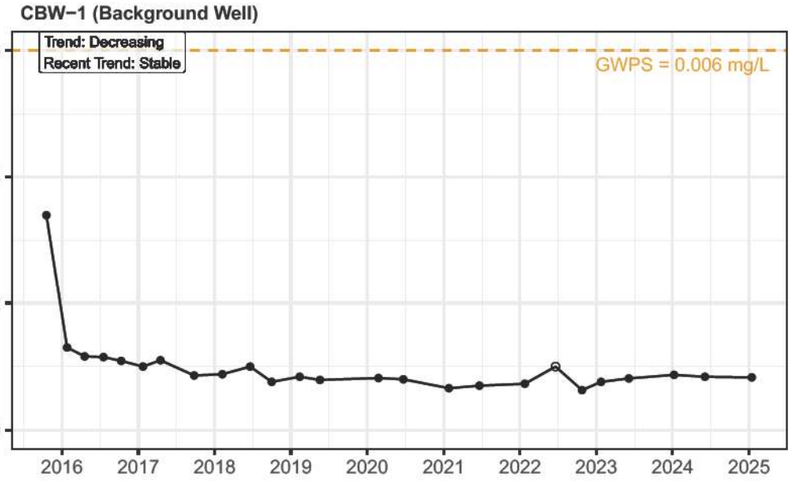


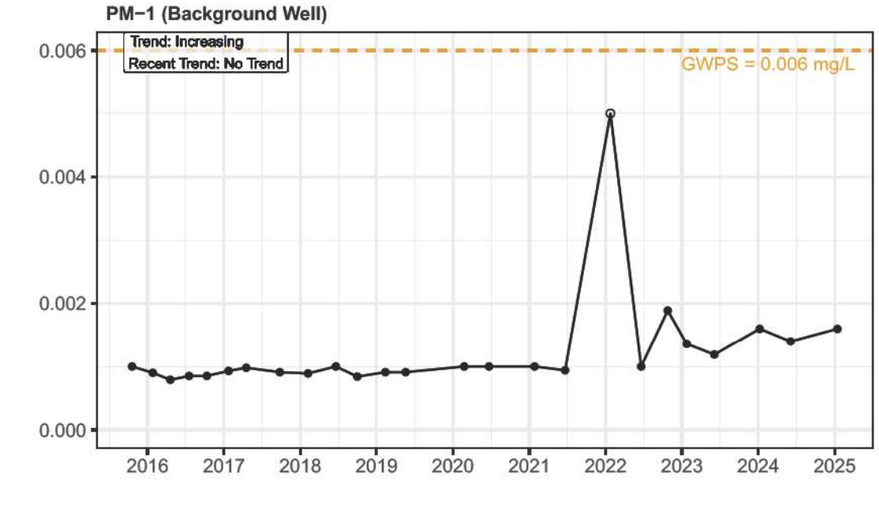


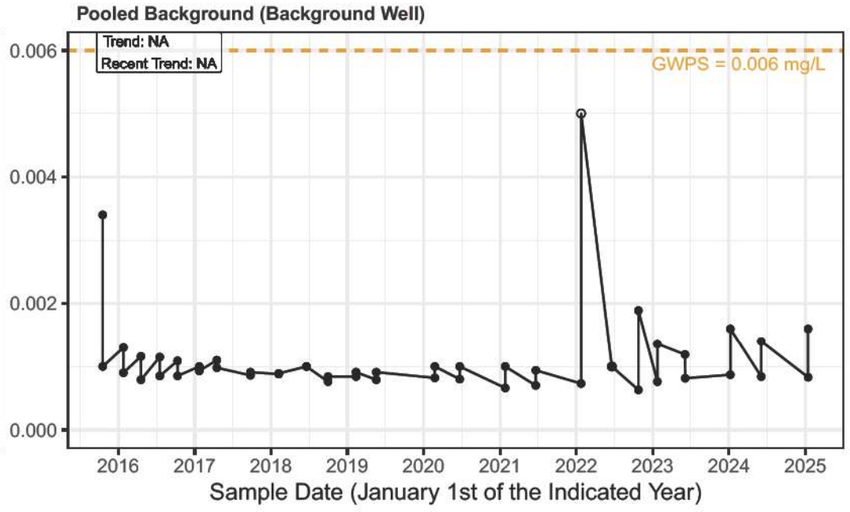








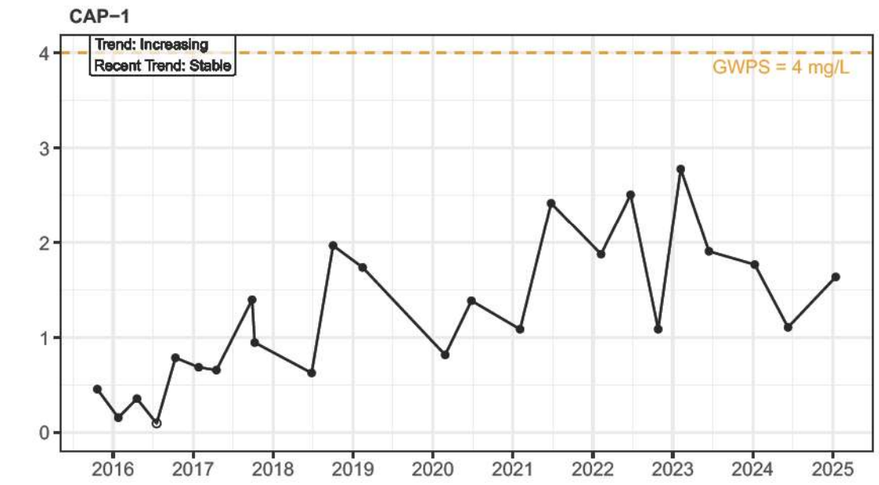


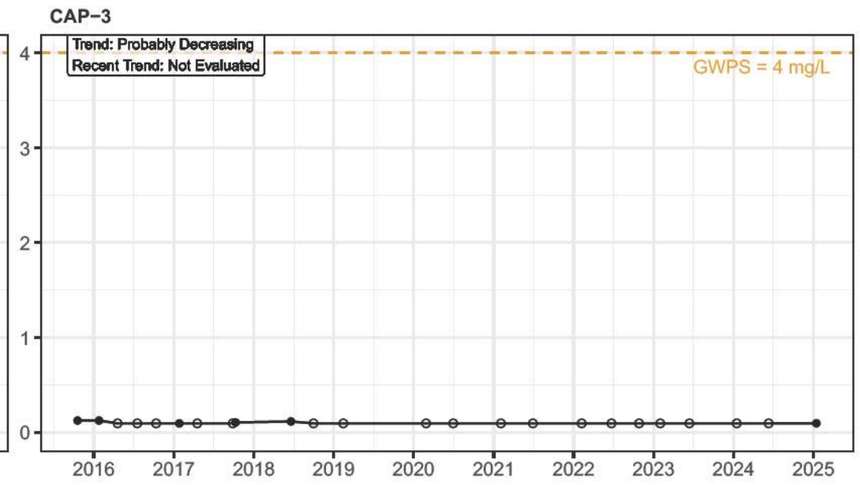


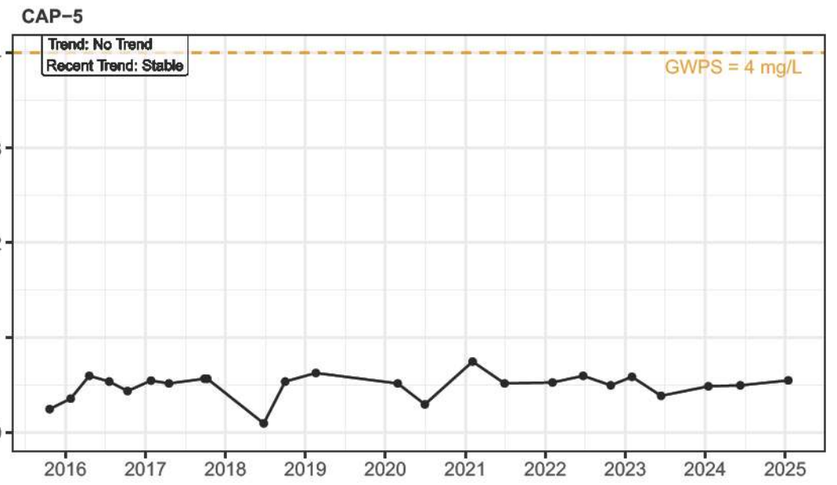
GWPS LCL Detection Status: Detect Non−Detect

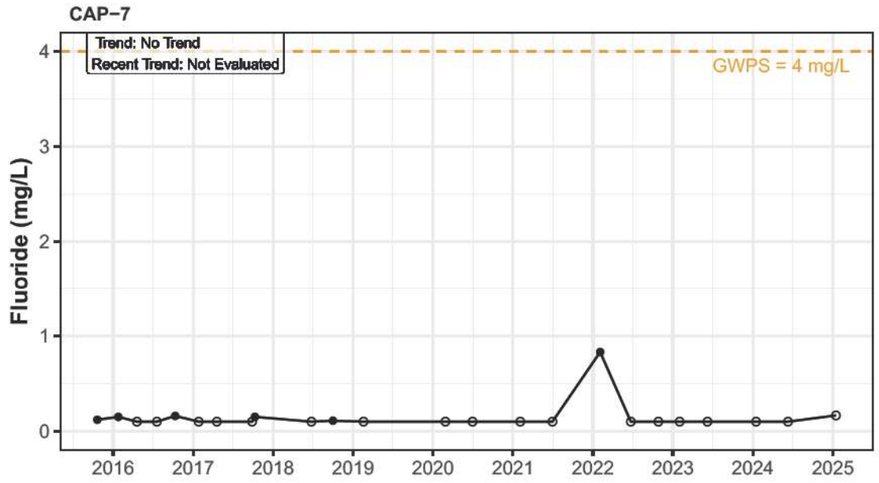
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

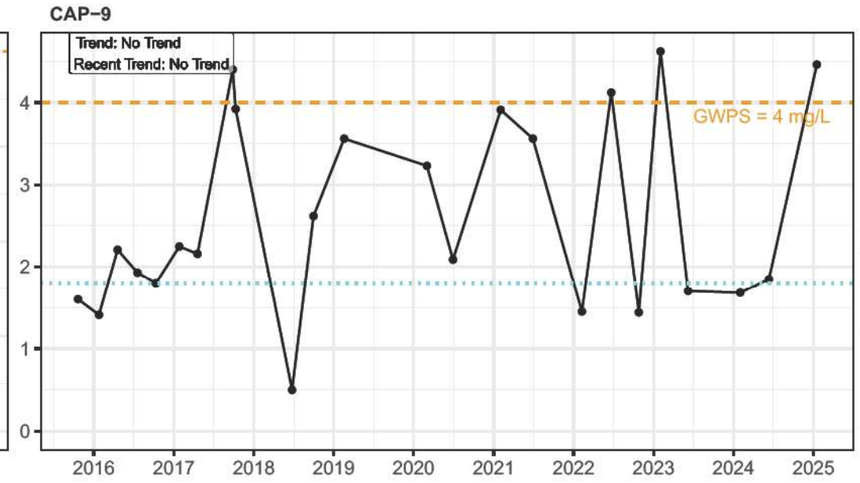
Trend Analysis Plots for Fluoride

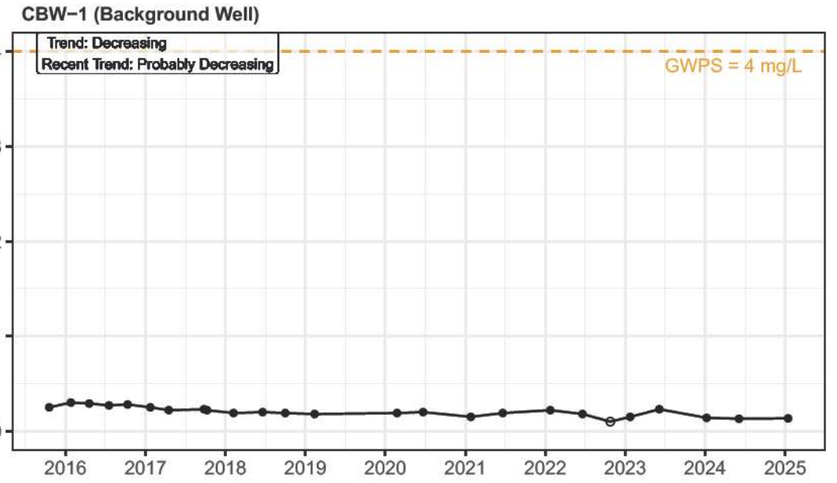


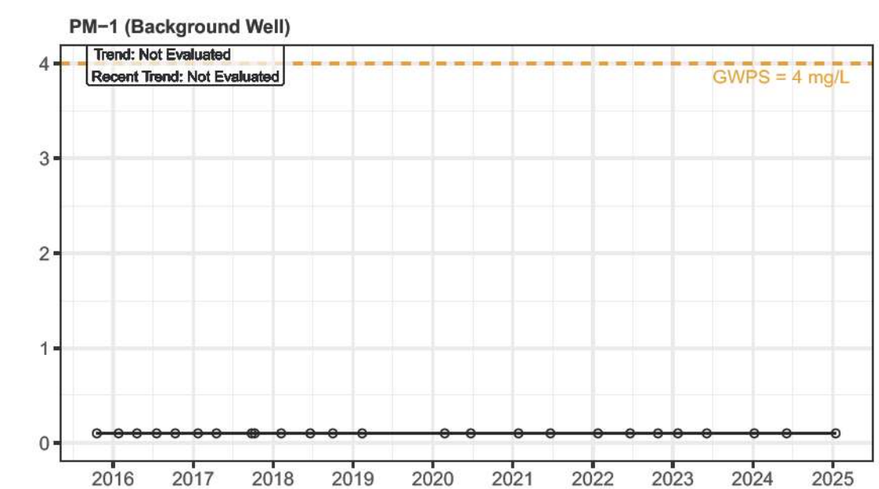


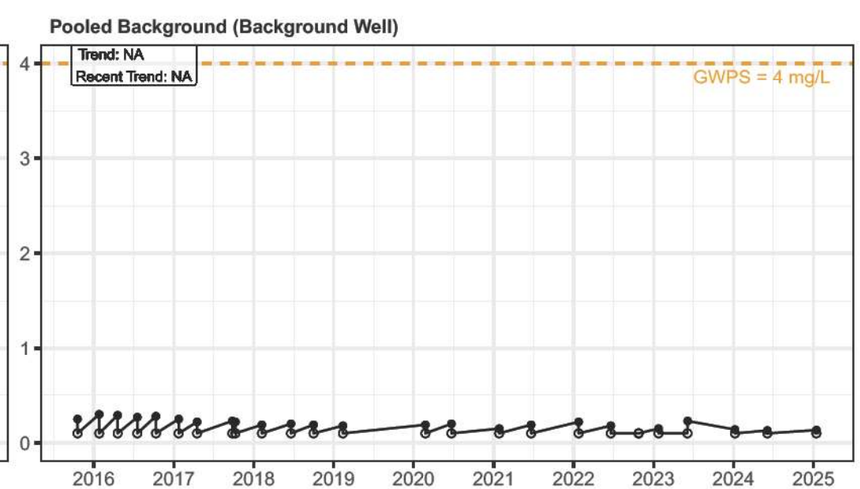












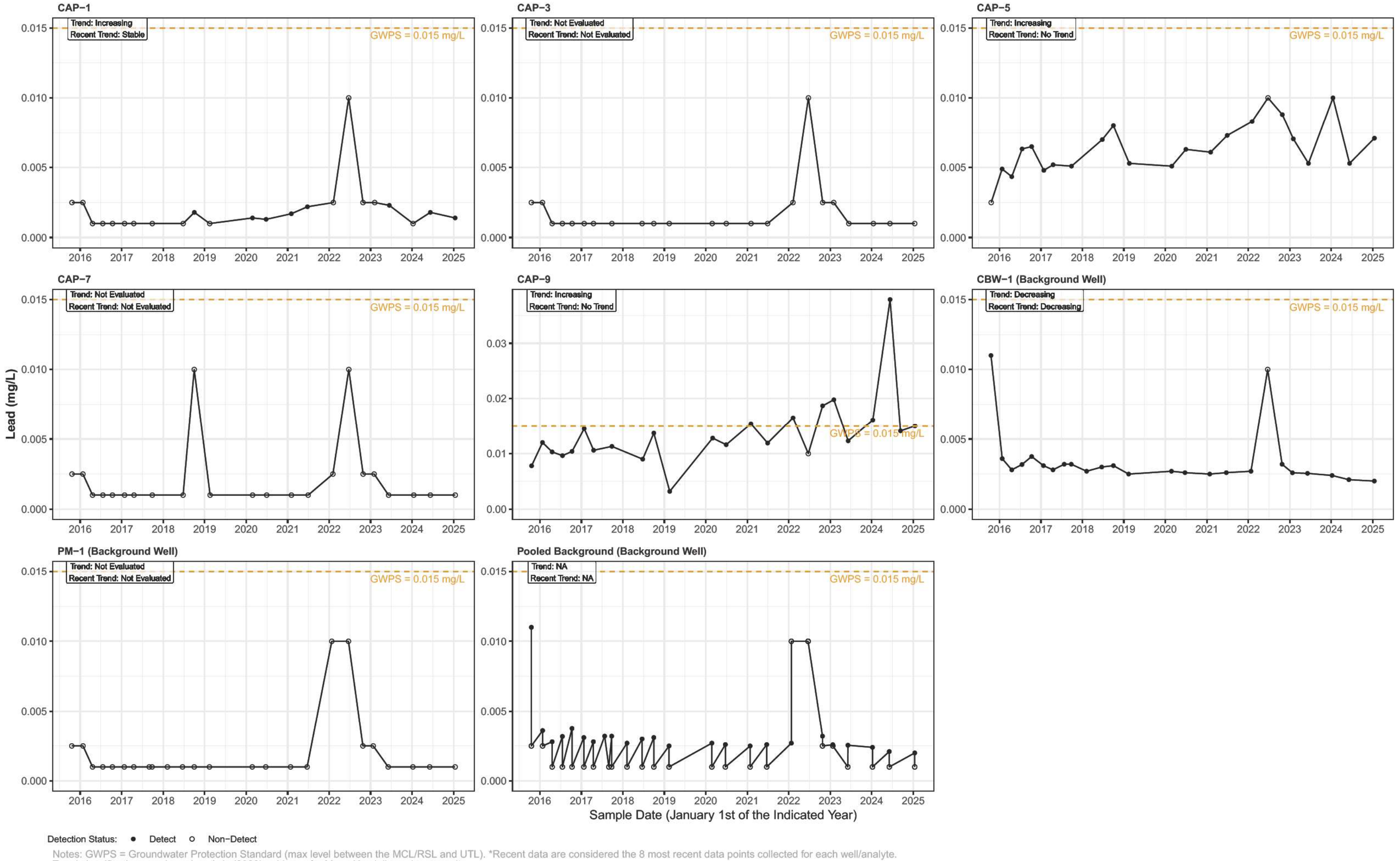
Fluoride (mg/L)

Sample Date (January 1st of the Indicated Year)

GWPS LCL Detection Status: Detect Non−Detect

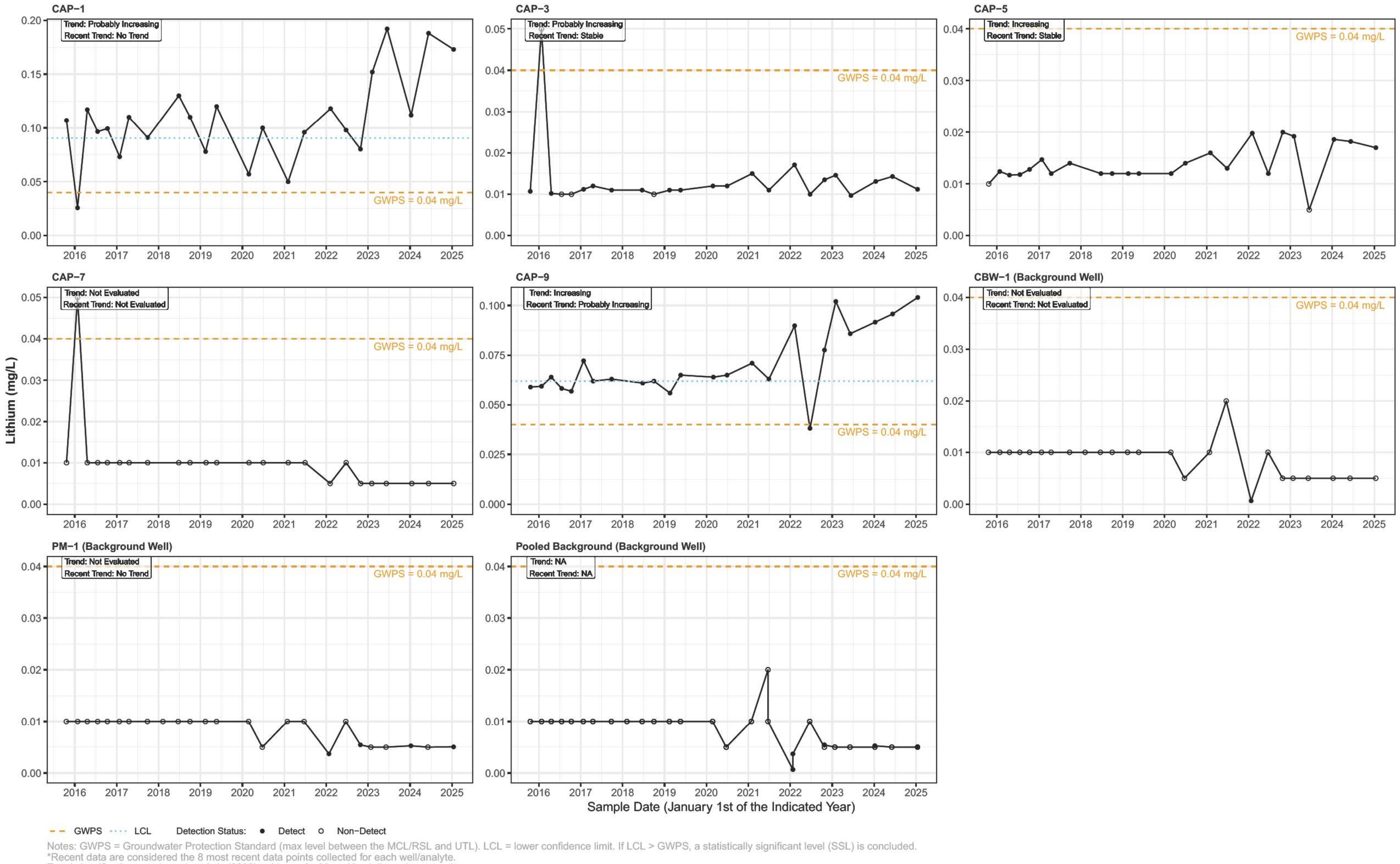
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Lead



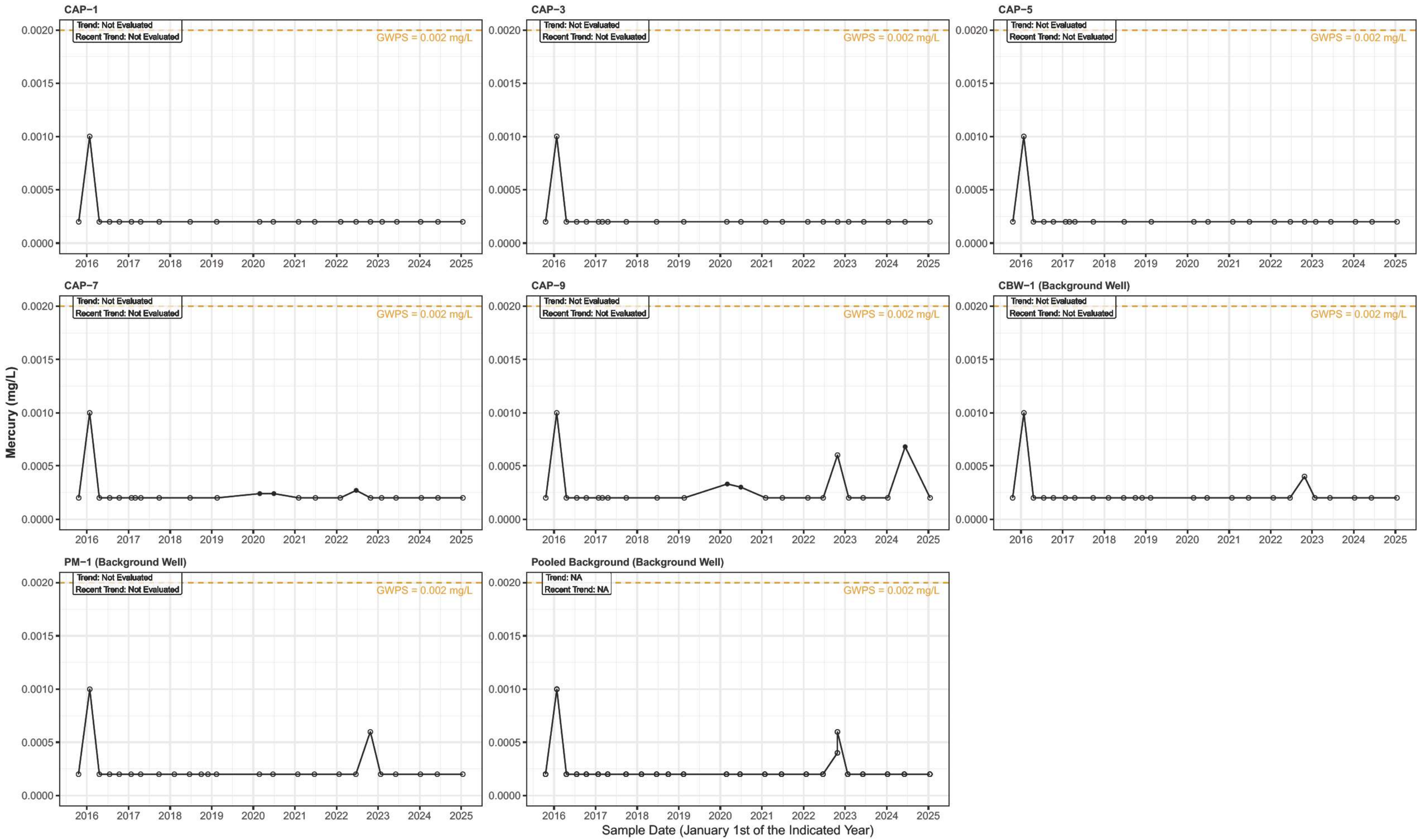
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis Plots for Lithium



Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

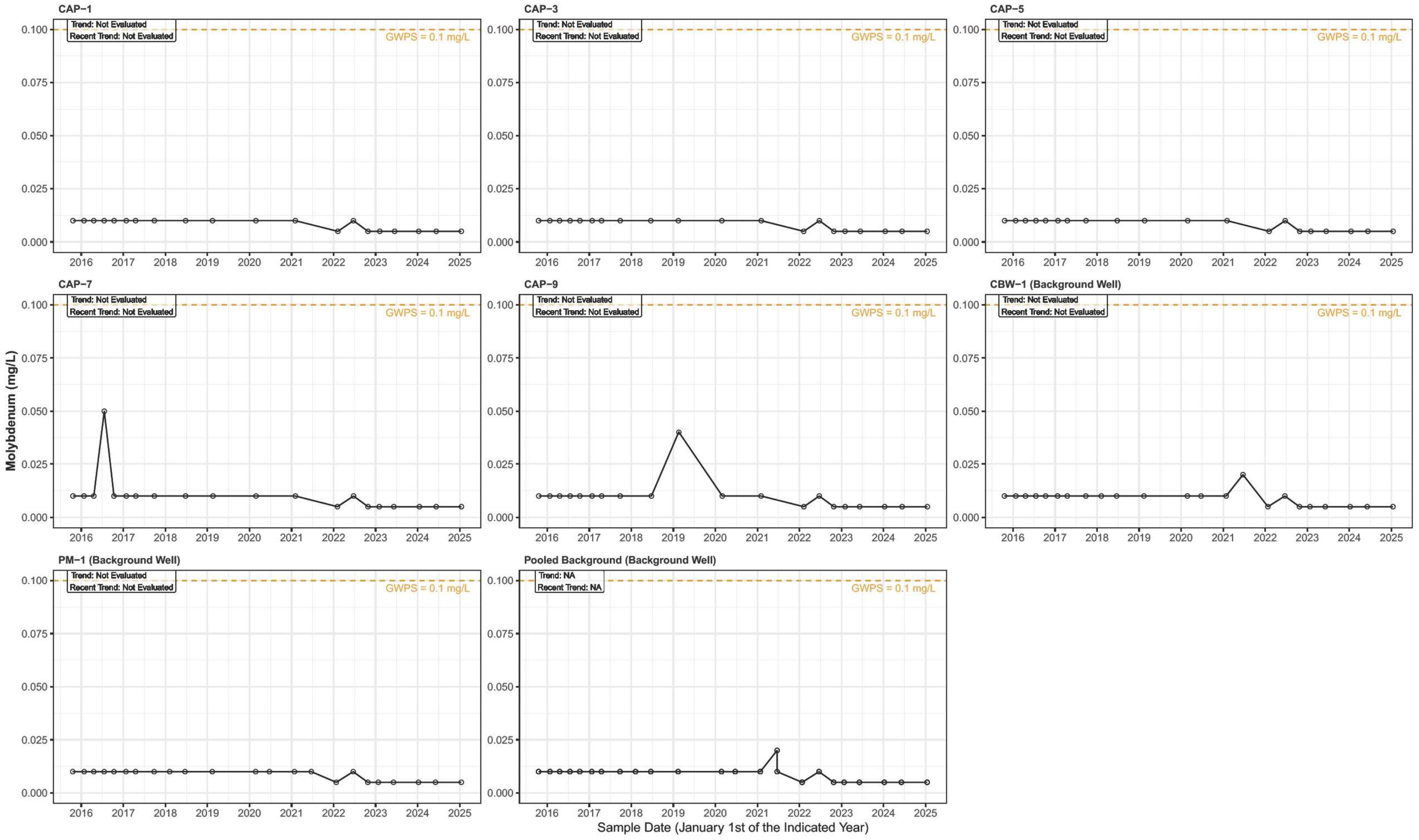
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

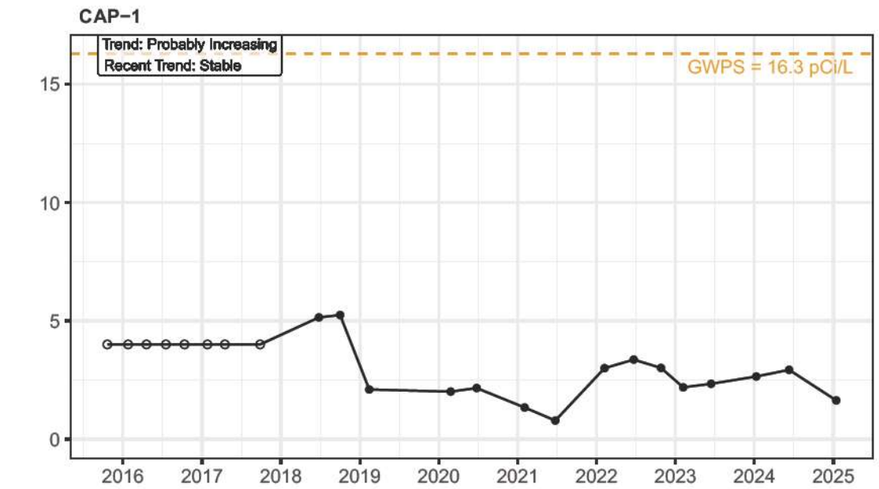
Trend Analysis for Molybdenum

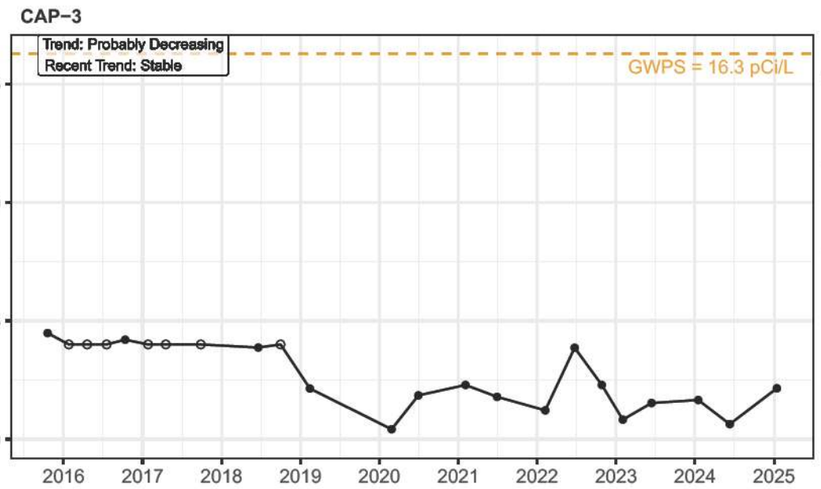


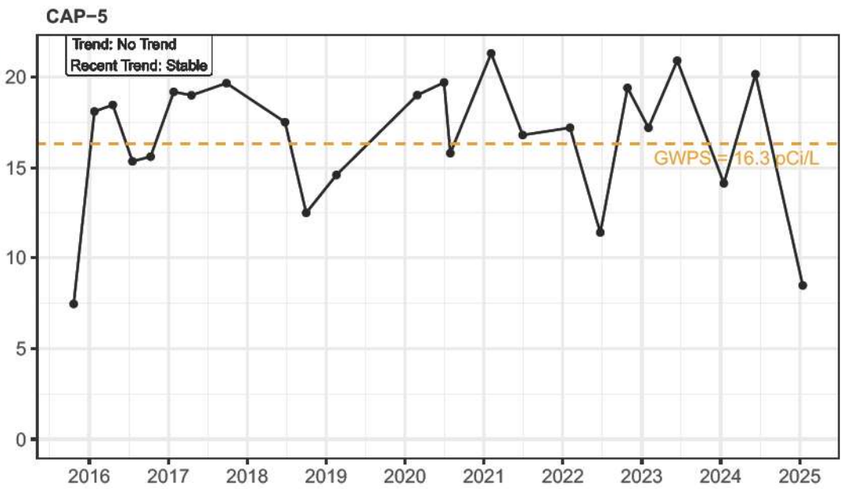
Detection Status: ○ Non−Detect

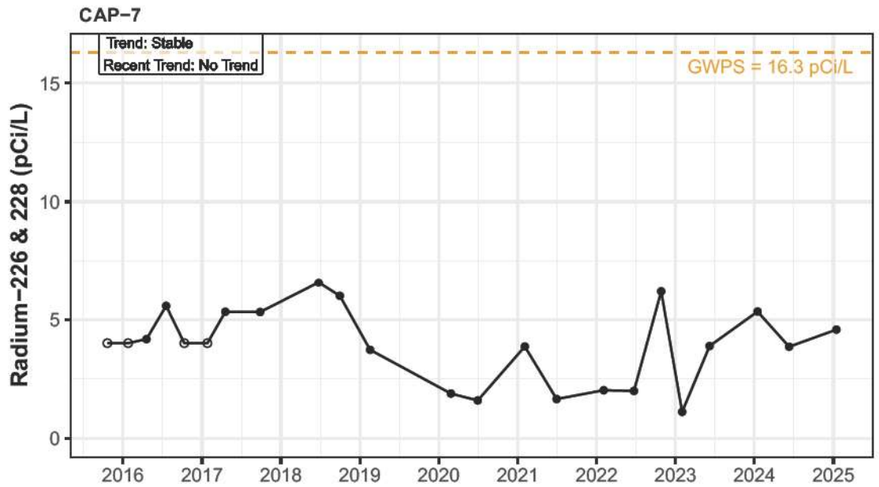
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

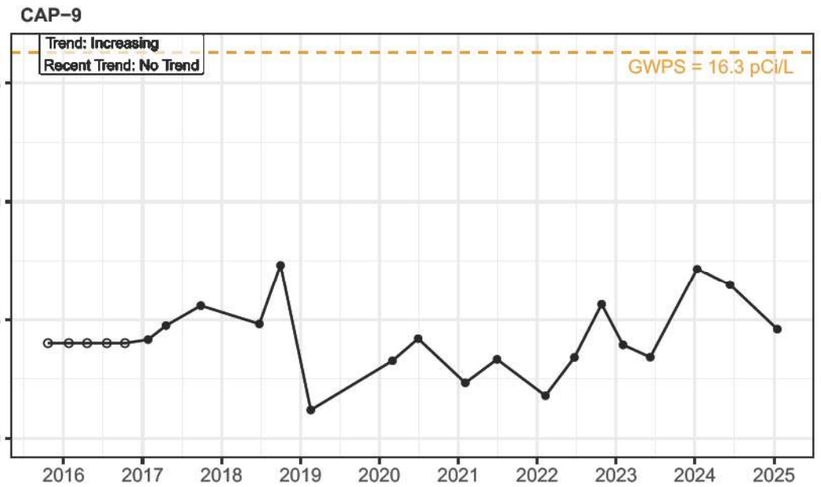
Trend Analysis for Radium−226 & 228

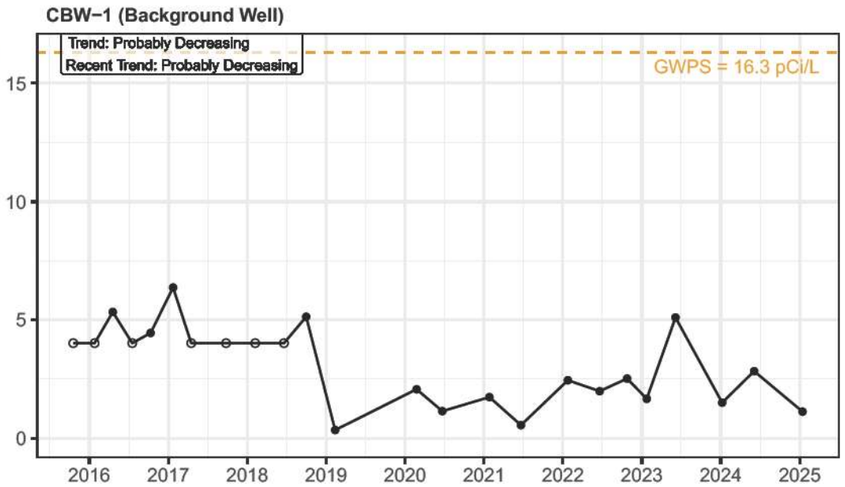


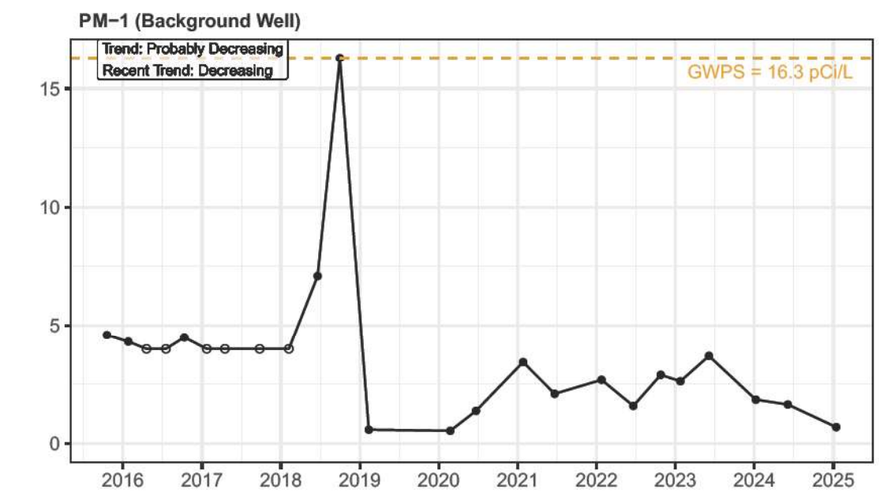


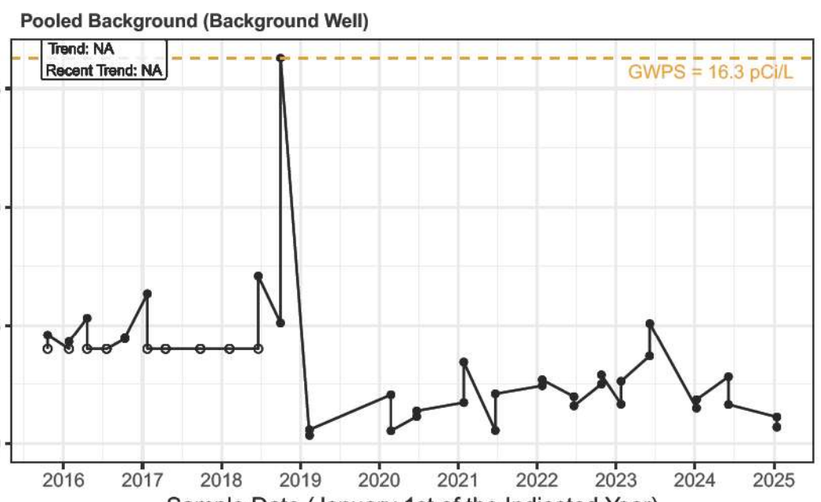












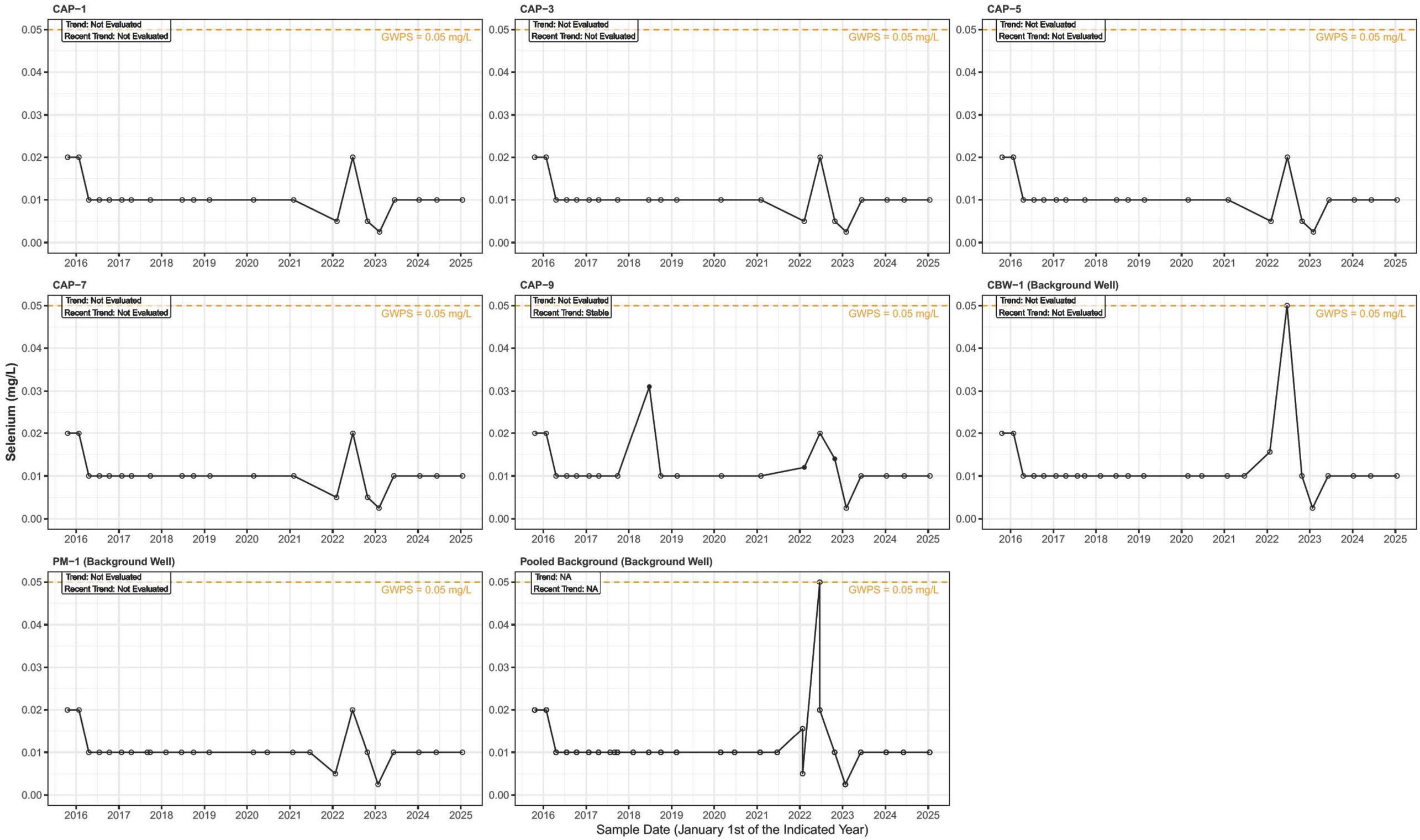
Radium−226 & 228 (pCi/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

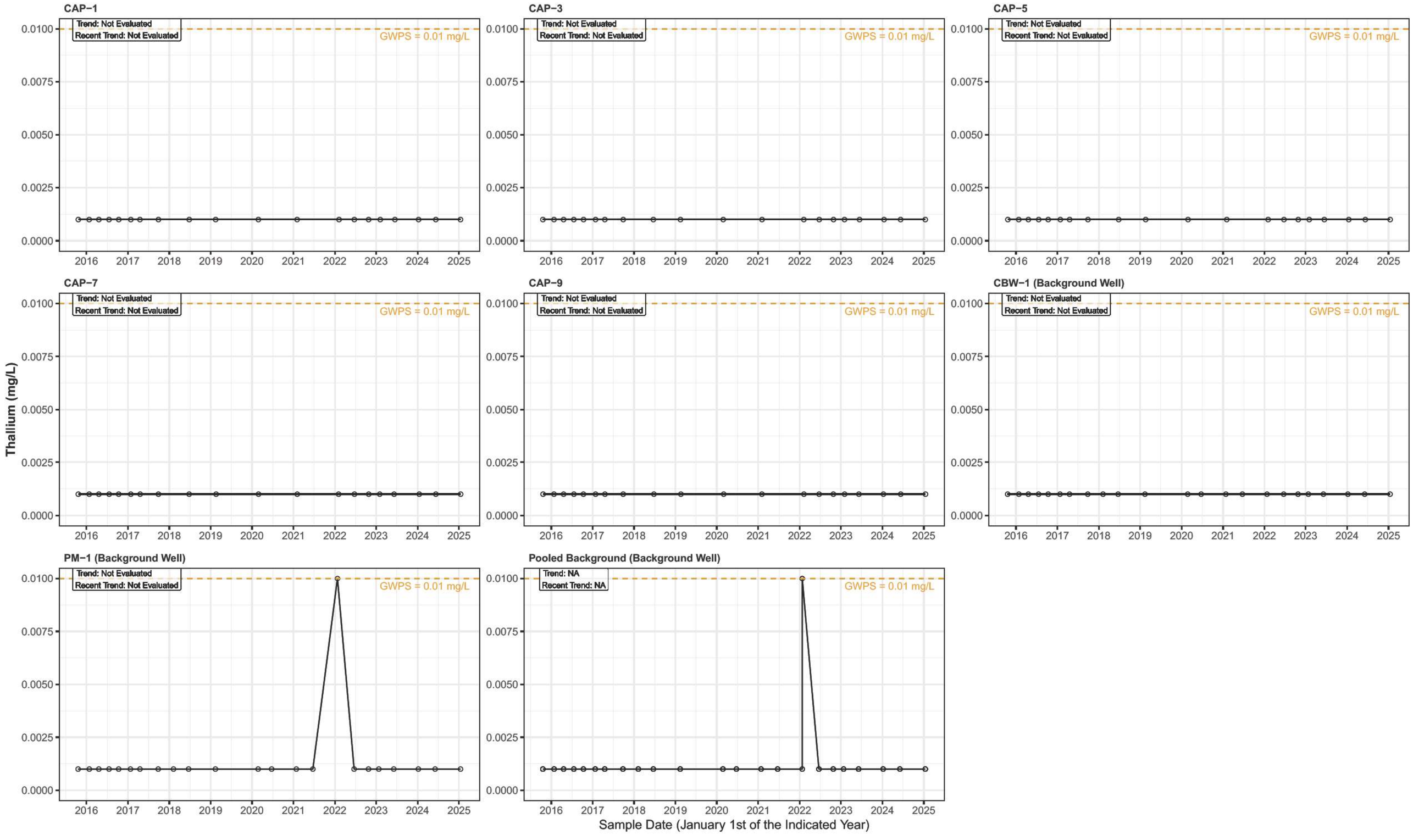
Trend Analysis for Selenium



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Thallium



Detection Status: ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

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TECHNICAL MEMORANDUM

November 14, 2025
File No. 132892-102-003-02

SUBJECT: Statistical Evaluation of the June 2025 Corrective Action Groundwater Monitoring Data
Cross Generating Station
Bottom Ash Pond

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93, §257.95, and §257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the June 2025 corrective action groundwater monitoring event for the Cross Generating Station (CGS) Bottom Ash Pond. Data for this groundwater sampling event was validated on August 18, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

All coal combustion residual (CCR) and non-CCR wastewater inflows to the CGS Bottom Ash Pond ceased as of August 31, 2020. The unit continues undergoing closure-by-removal as outlined in the Remedy Selection Report dated September 30, 2020. At that time, assessment monitoring identified the presence of beryllium, cobalt, lithium, and radium in one or more downgradient wells at a statistically significant level (SSL) above the Groundwater Protection Standard (GWPS).

Recent analytical testing results from the June 2025 sampling event were evaluated to determine if SSLs of Appendix IV groundwater monitoring constituents continue to exist above the GWPS. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background wells, and the results are provided below. Consistent with prior statistical evaluations, SSLs were again detected above the GWPS for beryllium, cobalt, and lithium based on analytical data from the June 2025 groundwater sampling event. Of note, there is currently not an SSL for radium.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR §257.93(f) (1-4)) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich on October 12, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional

screening level, or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

As part of the TL procedure, a concentration limit for each constituent is established from the distribution of the background data with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is termed the upper tolerance limit (UTL). Depending on the assumed distribution of background data, parametric or non-parametric procedures were used to develop the UTL. Parametric procedures use assumed distributions of the sample background data to develop the limits, whereas non-parametric limits use order statistics or bootstrap methods. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

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

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

The background wells (CBW-1 and PM-1) analytical results from previous events were combined to calculate the UTL for each detected Appendix IV constituent. Variability and distribution of the pooled dataset were reviewed to establish the method for UTL calculation.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on the statistical evaluation of analytical results collected through January 2025 and updated in the Statistical Output (Attachment A). The background dataset will be updated in Table 1 after four additional data points are collected (first semiannual event of 2026) in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on both the overall dataset, and on the eight most recent samples. Trends were only evaluated for constituent/well datasets of sufficient sample size. Recent trend analysis results are included in Table 1, and both overall and recent trends are included in Attachment A, Table A-4. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

Of the 36 well/constituent trends evaluated in recent data at downgradient compliance wells, 64 percent are stable or decreasing, and 25 are variable with no statistically significant trend. Increasing trends were identified in CAP-1 and CAP-3 for antimony, and CAP-9 for lithium and arsenic. Antimony remains well below the GWPS for all wells. Lithium is an identified SSL consistent with the prior statistical reporting event and arsenic remains at concentrations 50 percent less than the GWPS. It is important to note that increasing trends are not part of the comparison criteria for triggering an SSL.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with the previous results, beryllium, cobalt, and lithium are present in groundwater at SSLs above the GWPS in one or more downgradient wells. Remaining Appendix IV constituents meet the GWPS:

- Beryllium SSLs at CAP-1 and CAP-9
- Cobalt SSLs at CAP-1, CAP-3, CAP-5, CAP-7, and CAP-9
- Lithium SSLs at CAP-1 and CAP-9

The CGS Bottom Ash Pond's Remedy Selection Report specified closure-by-removal of the CCR and CCR-contaminated material, followed by monitored natural attenuation of beryllium, cobalt, lithium, and radium-226 and -228 in groundwater. Groundwater modeling results predicted concentrations of beryllium, cobalt, lithium, and radium-226 and -228 will decline after source removal is completed and site equilibrium is restored. Excavation of the pond for CCR source removal is ongoing and likely contributing to dynamic site conditions.

Barium in CAP-5, fluoride in CAP-1, CAP-3, CAP-5, CAP-7, and CAP-9, lead in CAP-9 and radium-226 and -228 in CAP-5, CAP-7, and CAP-9 were detected above the interwell UTL but were not identified as an SSL after the GWPS was compared to the LCL of the central tendency of the sample population. During closure activities, variability, including potential short-term increases in the concentrations of Appendix IV SSLs, is possible due to changing site conditions. The performance of the selected remedy will continue to be monitored after subsequent semiannual sampling events and will be based on the results of the corresponding statistical evaluations.

Enclosures:

Table 1 – June 2025 Corrective Action Monitoring Data (CGS Bottom Ash Pond)
Attachment A – Statistical Output, June 2025

TABLE

TABLE 1
JUNE 2025 CORRECTIVE ACTION MONITORING DATA (CGS BOTTOM ASH POND)
CROSS GENERATING STATION
BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	June 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Antimony, Total (mg/L)																					
CBW-1	2/24	92%	0.005 - 0.025	0.0059	0.0050	0.0060	0.0060	69%	0	1	Increasing	Non-Parametric	6/3/2025	0.006	Yes	0.025	NA	0.006	0.025	NA	NA
PM-1	2/24	92%	0.005 - 0.025	0.0061	0.0050	0.0094	0.0057	68%	0	2	Increasing		6/2/2025	0.0057	Yes	0.025	NA	0.006	0.025	NA	NA
CAP-1	3/21	86%	0.005 - 0.025	0.0061	0.0050	0.0060	0.0060	72%	0	1	Increasing	NA	6/3/2025	0.0059	Yes	0.025	No	0.006	0.025	NA	No
CAP-3	4/21	81%	0.005 - 0.025	0.0061	0.0050	0.0059	0.0059	72%	0	1	Increasing	NA	6/3/2025	0.0059	Yes	0.025	No	0.006	0.025	NA	No
CAP-5	3/21	86%	0.005 - 0.025	0.0060	0.0050	0.0054	0.0054	73%	0	1	No Trend	NA	6/3/2025	0.0052	Yes	0.025	No	0.006	0.025	NA	No
CAP-7	2/21	91%	0.005 - 0.025	0.0060	0.0050	0.0058	0.0058	73%	0	1	No Trend	NA	6/4/2025	0.005	No	0.025	No	0.006	0.025	NA	No
CAP-9	2/21	91%	0.0005 - 0.025	0.0058	0.0050	0.0059	0.0059	78%	0	1	No Trend	NA	6/4/2025	0.005	No	0.025	No	0.006	0.025	NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																					
CBW-1	3/26	89%	0.003 - 0.005	0.00527	0.005	0.00637	0.016	44%	1	0	Not Evaluated	Non-Parametric	6/3/2025	0.005	No	0.016	NA	0.01	0.016	NA	NA
PM-1	3/26	89%	0.003 - 0.01	0.00496	0.005	0.00500	0.0042	24%	0	0	Not Evaluated		6/2/2025	0.005	No	0.016	NA	0.01	0.016	NA	NA
CAP-1	1/26	96%	0.003 - 0.01	0.00481	0.005	0.00500	0.00312	27%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.016	No	0.01	0.016	NA	No
CAP-3	0/26	100%	0.003 - 0.01	0.00481	0.005	0.00500	NA	28%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.016	No	0.01	0.016	NA	No
CAP-5	0/26	100%	0.003 - 0.01	0.00481	0.005	0.00500	NA	28%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.016	No	0.01	0.016	NA	No
CAP-7	9/26	65%	0.005 - 0.01	0.00551	0.005	0.00932	0.0103	27%	1	0	Decreasing	NA	6/4/2025	0.005	No	0.016	No	0.01	0.016	NA	No
CAP-9	23/26	12%	0.003 - 0.01	0.00700	0.007	0.01020	0.0126	28%	2	0	Increasing	NA	6/4/2025	0.0081	Yes	0.016	No	0.01	0.016	NA	No
CCR Appendix IV: Barium, Total (mg/L)																					
CBW-1	26/26	0%	NA	0.0424	0.0424	0.0471	0.061	12%	0	0	Stable	Non-Parametric	6/3/2025	0.0379	Yes	0.103	NA	2	2	NA	NA
PM-1	26/26	0%	NA	0.0819	0.0805	0.0969	0.103	9%	0	0	Probably Increasing		6/2/2025	0.0869	Yes	0.103	NA	2	2	NA	NA
CAP-1	26/26	0%	NA	0.0401	0.0407	0.0633	0.069	36%	0	0	Stable	NA	6/3/2025	0.0191	Yes	0.103	No	2	2	NA	No
CAP-3	26/26	0%	NA	0.0816	0.0751	0.1240	0.237	44%	0	0	Stable	NA	6/3/2025	0.0618	Yes	0.103	No	2	2	NA	No
CAP-5	26/26	0%	NA	1.39	1.40	1.58	1.66	13%	0	0	Stable	NA	6/3/2025	1.23	Yes	0.103	Yes	2	2	NA	No
CAP-7	26/26	0%	NA	0.0346	0.0323	0.0466	0.0497	17%	0	0	Stable	NA	6/4/2025	0.0274	Yes	0.103	No	2	2	NA	No
CAP-9	26/26	0%	NA	0.0476	0.0412	0.0735	0.095	41%	0	0	Stable	NA	6/4/2025	0.0274	Yes	0.103	No	2	2	NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																					
CBW-1	1/25	96%	0.0005 - 0.0005	0.0005	0.0005	0.0005	0.00063	5%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.0005	No	0.005	NA	0.004	0.005	NA	NA
PM-1	0/26	100%	0.0005 - 0.005	0.0007	0.0005	0.0005	NA	131%	0	1	Not Evaluated		6/2/2025	0.0005	No	0.005	NA	0.004	0.005	NA	NA
CAP-1	25/25	0%	NA	0.0065	0.0065	0.0110	0.0116	46%	18	0	Stable	Parametric	6/3/2025	0.0069	Yes	0.005	Yes	0.004	0.005	0.00525	Yes
CAP-3	0/25	100%	0.0005 - 0.001	0.0005	0.0005	0.0005	NA	19%	0	0	Not Evaluated	NA	6/3/2025	0.0005	No	0.005	No	0.004	0.005	NA	No
CAP-5	25/25	0%	NA	0.0044	0.0043	0.0055	0.0064	20%	18	0	Decreasing	NA	6/3/2025	0.0035	Yes	0.005	No	0.004	0.005	NA	No
CAP-7	0/25	100%	0.0005 - 0.001	0.0005	0.0005	0.0005	NA	19%	0	0	Not Evaluated	NA	6/4/2025	0.0005	No	0.005	No	0.004	0.005	NA	No
CAP-9	25/25	0%	NA	0.0170	0.0165	0.0219	0.0245	17%	25	0	Stable	Parametric	6/4/2025	0.0184	Yes	0.005	Yes	0.004	0.005	0.0158	Yes

TABLE 1
JUNE 2025 CORRECTIVE ACTION MONITORING DATA (CGS BOTTOM ASH POND)
CROSS GENERATING STATION
BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	June 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Cadmium, Total (mg/L)																					
CBW-1	0/25	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	109%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.0005	No	0.005	NA	0.005	0.005	NA	NA
PM-1	0/25	100%	0.0005 - 0.005	0.0008	0.0005	0.0033	NA	136%	0	0	Not Evaluated		6/2/2025	0.0005	No	0.005	NA	0.005	0.005	NA	NA
CAP-1	0/25	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	109%	0	0	Not Evaluated	NA	6/3/2025	0.0005	No	0.005	No	0.005	0.005	NA	No
CAP-3	0/25	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	109%	0	0	Not Evaluated	NA	6/3/2025	0.0005	No	0.005	No	0.005	0.005	NA	No
CAP-5	0/25	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	109%	0	0	Not Evaluated	NA	6/3/2025	0.0005	No	0.005	No	0.005	0.005	NA	No
CAP-7	0/25	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	109%	0	0	Not Evaluated	NA	6/4/2025	0.0005	No	0.005	No	0.005	0.005	NA	No
CAP-9	2/25	92%	0.0005 - 0.004	0.0007	0.0005	0.0014	0.0015	103%	0	0	Decreasing	NA	6/4/2025	0.0005	No	0.005	No	0.005	0.005	NA	No
CCR Appendix IV: Chromium, Total (mg/L)																					
CBW-1	1/25	96%	0.005 - 0.005	0.005	0.005	0.005	0.014	34%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.005	No	0.014	NA	0.1	0.1	NA	NA
PM-1	0/24	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		6/2/2025	0.005	No	0.014	NA	0.1	0.1	NA	NA
CAP-1	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.014	No	0.1	0.1	NA	No
CAP-3	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.014	No	0.1	0.1	NA	No
CAP-5	1/25	96%	0.005 - 0.01	0.006	0.005	0.009	0.0251	68%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.014	No	0.1	0.1	NA	No
CAP-7	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated	NA	6/4/2025	0.005	No	0.014	No	0.1	0.1	NA	No
CAP-9	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated	NA	6/4/2025	0.005	No	0.014	No	0.1	0.1	NA	No
CCR Appendix IV: Cobalt, Total (mg/L)																					
CBW-1	25/26	4%	0.001 - 0.001	0.0010	0.0009	0.0013	0.0034	52%	0	0	Stable	Non-Parametric	6/3/2025	0.0011	Yes	0.005	NA	0.006	0.006	NA	NA
PM-1	25/26	4%	0.005 - 0.005	0.0013	0.0010	0.0018	0.00189	66%	0	0	No Trend		6/2/2025	0.0017	Yes	0.005	NA	0.006	0.006	NA	NA
CAP-1	25/25	0%	NA	0.0182	0.0172	0.0254	0.0287	33%	24	0	No Trend	Parametric	6/3/2025	0.0236	Yes	0.005	Yes	0.006	0.006	0.0157	Yes
CAP-3	25/25	0%	NA	0.0270	0.0267	0.0324	0.0328	14%	25	0	Decreasing	Non-Parametric	6/3/2025	0.0245	Yes	0.005	Yes	0.006	0.006	0.0252	Yes
CAP-5	25/25	0%	NA	0.0133	0.0133	0.0168	0.0174	17%	25	0	Probably Decreasing	Parametric	6/3/2025	0.013	Yes	0.005	Yes	0.006	0.006	0.0124	Yes
CAP-7	25/25	0%	NA	0.0101	0.0102	0.0129	0.015	20%	24	0	Decreasing	Parametric	6/4/2025	0.0062	Yes	0.005	Yes	0.006	0.006	0.00924	Yes
CAP-9	25/25	0%	NA	0.0349	0.0360	0.0469	0.0501	26%	25	0	Stable	Parametric	6/4/2025	0.047	Yes	0.005	Yes	0.006	0.006	0.0311	Yes
CCR Appendix IV: Fluoride, Total (mg/L)																					
CBW-1	25/26	4%	0.1 - 0.1	0.200	0.195	0.287	0.3	27%	0	0	Probably Decreasing	Non-Parametric	6/3/2025	0.11	Yes	0.3	NA	4	4	NA	NA
PM-1	0/26	100%	0.1 - 0.1	0.100	0.100	0.100	NA	0%	0	0	Not Evaluated		6/2/2025	0.1	No	0.3	NA	4	4	NA	NA
CAP-1	24/25	4%	0.1 - 0.1	1.26	1.11	2.49	2.78	58%	0	0	Stable	NA	6/3/2025	1.16	Yes	0.3	Yes	4	4	NA	No
CAP-3	6/25	76%	0.1 - 0.1	0.104	0.100	0.128	0.13	9%	0	0	Not Evaluated	NA	6/3/2025	0.1	No	0.3	Yes	4	4	NA	No
CAP-5	25/25	0%	NA	0.498	0.530	0.624	0.75	27%	0	0	Stable	NA	6/3/2025	0.54	Yes	0.3	Yes	4	4	NA	No
CAP-7	6/25	76%	0.1 - 0.165	0.139	0.100	0.164	0.83	104%	0	0	Not Evaluated	NA	6/4/2025	0.1	No	0.3	Yes	4	4	NA	No
CAP-9	25/25	0%	NA	2.58	2.16	4.45	4.62	45%	4	0	No Trend	NA	6/4/2025	2.08	Yes	0.3	Yes	4	4	NA	No

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BOTTOM ASH POND

Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend [a]	Assumed Data Distribution	Inter-well Analysis								
													Sample Date	June 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Lead, Total (mg/L)																					
CBW-1	25/26	4%	0.01 - 0.01	0.003	0.003	0.008	0.011	63%	0	0	Stable	Non-Parametric	6/3/2025	0.0024	Yes	0.011	NA	0.015	0.015	NA	NA
PM-1	0/26	100%	0.001 - 0.01	0.002	0.001	0.008	NA	127%	0	0	Not Evaluated		6/2/2025	0.001	No	0.011	NA	0.015	0.015	NA	NA
CAP-1	9/24	63%	0.001 - 0.01	0.002	0.002	0.003	0.0023	93%	0	0	Stable	NA	6/3/2025	0.0017	Yes	0.011	No	0.015	0.015	NA	No
CAP-3	0/24	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated	NA	6/3/2025	0.001	No	0.011	No	0.015	0.015	NA	No
CAP-5	22/24	8%	0.0025 - 0.01	0.006	0.006	0.010	0.01	29%	0	0	Stable	NA	6/3/2025	0.0049	Yes	0.011	No	0.015	0.015	NA	No
CAP-7	0/24	100%	0.001 - 0.01	0.002	0.001	0.009	NA	122%	0	0	Not Evaluated	NA	6/4/2025	0.001	No	0.011	No	0.015	0.015	NA	No
CAP-9	24/25	4%	0.01 - 0.01	0.014	0.012	0.020	0.0379	46%	6	0	Stable	NA	6/4/2025	0.0146	Yes	0.011	Yes	0.015	0.015	NA	No
CCR Appendix IV: Lithium, Total (mg/L)																					
CBW-1	1/26	96%	0.005 - 0.02	0.0085	0.0100	0.0100	0.00066	43%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.005	No	0.02	NA	0.04	0.04	NA	NA
PM-1	4/26	85%	0.005 - 0.01	0.0083	0.0100	0.0100	0.00544	30%	0	0	Stable		6/2/2025	0.005	No	0.02	NA	0.04	0.04	NA	NA
CAP-1	25/25	0%	NA	0.1100	0.1070	0.1870	0.192	38%	24	0	No Trend	Parametric	6/3/2025	0.184	Yes	0.02	Yes	0.04	0.04	0.0930	Yes
CAP-3	21/25	16%	0.01 - 0.05	0.0133	0.0110	0.0167	0.0171	59%	0	1	Stable	NA	6/3/2025	0.0104	Yes	0.02	No	0.04	0.04	NA	No
CAP-5	23/25	8%	0.005 - 0.01	0.0139	0.0128	0.0197	0.02	25%	0	0	Stable	NA	6/3/2025	0.015	Yes	0.02	No	0.04	0.04	NA	No
CAP-7	0/25	100%	0.005 - 0.05	0.0100	0.0100	0.0100	NA	87%	0	1	Not Evaluated	NA	6/4/2025	0.005	No	0.02	No	0.04	0.04	NA	No
CAP-9	25/25	0%	NA	0.0714	0.0640	0.101	0.104	24%	24	0	Increasing	Non-Parametric	6/4/2025	0.0986	Yes	0.02	Yes	0.04	0.04	0.062	Yes
CCR Appendix IV: Mercury, Total (mg/L)																					
CBW-1	0/26	100%	0.0002 - 0.001	0.0002	0.0002	0.0004	NA	67%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.0002	No	0.001	NA	0.002	0.002	NA	NA
PM-1	0/26	100%	0.0002 - 0.001	0.0002	0.0002	0.0005	NA	70%	0	0	Not Evaluated		6/2/2025	0.0002	No	0.001	NA	0.002	0.002	NA	NA
CAP-1	1/23	96%	0.0002 - 0.001	0.0002	0.0002	0.0002	0.0002	71%	0	0	Not Evaluated	NA	6/3/2025	0.0002	Yes	0.001	No	0.002	0.002	NA	No
CAP-3	1/24	96%	0.0002 - 0.001	0.0002	0.0002	0.0002	0.0002	70%	0	0	Not Evaluated	NA	6/3/2025	0.0002	Yes	0.001	No	0.002	0.002	NA	No
CAP-5	1/24	96%	0.0002 - 0.001	0.0002	0.0002	0.0002	0.0002	70%	0	0	Not Evaluated	NA	6/3/2025	0.0002	Yes	0.001	No	0.002	0.002	NA	No
CAP-7	3/24	88%	0.0002 - 0.001	0.0002	0.0002	0.0003	0.00027	68%	0	0	Not Evaluated	NA	6/4/2025	0.0002	No	0.001	No	0.002	0.002	NA	No
CAP-9	3/24	88%	0.0002 - 0.001	0.0003	0.0002	0.0007	0.000678	71%	0	0	Not Evaluated	NA	6/4/2025	0.0002	No	0.001	No	0.002	0.002	NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																					
CBW-1	0/24	100%	0.005 - 0.02	0.009	0.010	0.010	NA	39%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.005	No	0.02	NA	0.1	0.1	NA	NA
PM-1	0/24	100%	0.005 - 0.01	0.008	0.010	0.010	NA	29%	0	0	Not Evaluated		6/2/2025	0.005	No	0.02	NA	0.1	0.1	NA	NA
CAP-1	0/21	100%	0.005 - 0.01	0.008	0.010	0.010	NA	31%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.02	No	0.1	0.1	NA	No
CAP-3	0/21	100%	0.005 - 0.01	0.008	0.010	0.010	NA	31%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.02	No	0.1	0.1	NA	No
CAP-5	0/21	100%	0.005 - 0.01	0.008	0.010	0.010	NA	31%	0	0	Not Evaluated	NA	6/3/2025	0.005	No	0.02	No	0.1	0.1	NA	No
CAP-7	0/21	100%	0.005 - 0.05	0.010	0.010	0.010	NA	95%	0	0	Not Evaluated	NA	6/4/2025	0.005	No	0.02	No	0.1	0.1	NA	No
CAP-9	0/21	100%	0.005 - 0.04	0.010	0.010	0.010	NA	78%	0	0	Not Evaluated	NA	6/4/2025	0.005	No	0.02	No	0.1	0.1	NA	No

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													Sample Date	June 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) [b]	Statistically Significant Increase (SSI) *Sample results that exceed the Interwell UTL*	CCR MCL/RSL	Groundwater Protection Standard (GWPS) *Max level between the UTL and MCL/RSL*	Lower Confidence Limit (LCL) *Only calculated for GWPS Exceedances*	Statistically Significant Level (SSL) *Result > GWPS and LCL > GWPS*
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																					
CBW-1	18/25	28%	45751	3.00	2.82	5.27	6.34	55%	4	0	Probably Decreasing	Non-Parametric	6/3/2025	0.991	Yes	16.3	NA	5	16.3	NA	NA
PM-1	19/25	24%	45751	3.51	3.44	6.59	16.3	88%	2	0	Probably Decreasing		6/2/2025	1.22	Yes	16.3	NA	5	16.3	NA	NA
CAP-1	16/24	33%	45751	3.04	3.00	4.97	5.24	40%	2	0	Probably Decreasing	NA	6/3/2025	1.04	Yes	16.3	No	5	16.3	NA	No
CAP-3	17/24	29%	45751	2.70	2.29	4.17	4.48	50%	0	0	Stable	NA	6/3/2025	1.48	Yes	16.3	No	5	16.3	NA	No
CAP-5	25/25	0%	NA	16.7	17.5	20.7	21.3	22%	25	0	Stable	Non-Parametric	6/3/2025	18.3	Yes	16.3	Yes	5	16.3	15.6	No
CAP-7	20/24	17%	45751	3.91	4.00	6.15	6.56	40%	7	0	Stable	NA	6/4/2025	3.28	Yes	16.3	Yes	5	16.3	NA	No
CAP-9	19/24	21%	45751	4.24	4.00	7.04	7.31	35%	5	0	No Trend	NA	6/4/2025	4.5	Yes	16.3	Yes	5	16.3	NA	No
CCR Appendix IV: Selenium, Total (mg/L)																					
CBW-1	0/26	100%	0.0025 - 0.05	0.012	0.010	0.020	NA	69%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.01	No	0.05	NA	0.05	0.05	NA	NA
PM-1	0/26	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	36%	0	0	Not Evaluated		6/2/2025	0.01	No	0.05	NA	0.05	0.05	NA	NA
CAP-1	0/22	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	41%	0	0	Not Evaluated	NA	6/3/2025	0.01	No	0.05	No	0.05	0.05	NA	No
CAP-3	0/22	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	41%	0	0	Not Evaluated	NA	6/3/2025	0.01	No	0.05	No	0.05	0.05	NA	No
CAP-5	0/22	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	41%	0	0	Not Evaluated	NA	6/3/2025	0.01	No	0.05	No	0.05	0.05	NA	No
CAP-7	0/22	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	41%	0	0	Not Evaluated	NA	6/4/2025	0.01	No	0.05	No	0.05	0.05	NA	No
CAP-9	3/22	86%	0.0025 - 0.02	0.012	0.010	0.020	0.031	47%	0	0	Not Evaluated	NA	6/4/2025	0.01	No	0.05	No	0.05	0.05	NA	No
CCR Appendix IV: Thallium, Total (mg/L)																					
CBW-1	0/24	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric	6/3/2025	0.001	No	0.01	NA	0.002	0.01	NA	NA
PM-1	0/24	100%	0.001 - 0.01	0.001	0.001	0.001	NA	134%	0	1	Not Evaluated		6/2/2025	0.001	No	0.01	NA	0.002	0.01	NA	NA
CAP-1	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/3/2025	0.001	No	0.01	No	0.002	0.01	NA	No
CAP-3	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/3/2025	0.001	No	0.01	No	0.002	0.01	NA	No
CAP-5	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/3/2025	0.001	No	0.01	No	0.002	0.01	NA	No
CAP-7	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/4/2025	0.001	No	0.01	No	0.002	0.01	NA	No
CAP-9	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	6/4/2025	0.001	No	0.01	No	0.002	0.01	NA	No

NOTES:

[a] Mann-Kendall Trends calculated from the eight most recent samples at a 95% confidence limits and trend classifications are determined based on guidance from the Monitoring and Remediation Optimization System (Aziz, 2003). Recent trend date ranges vary by well/constituent and are included in Attachment A, Table A-4. 'Probably increasing' and 'probably decreasing' trends indicate that while no statistically significant trend was identified at the indicated confidence level, data suggest emerging trends at a lower confidence level. Data sets that do not meet test requirements, such as having a detection rate of at least 25%, are labeled as 'Not Evaluated'.

[b] Interwell Tolerance Limits are calculated from data collected from pooled upgradient well data (CBW-1 and PM-1) through January 2025. No statistical outlier data points were removed from background datasets.

MCL/RSL: Maximum contaminant level/Regional screening level

mg/L: milligrams per liter, pCi/L: picocuries per liter

n: sample count

NA: not applicable

<: Constituent not detected above the method detection limit and the sample-specific reporting limit is show.

ATTACHMENT A
Statistical Output, June 2025

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
CAP-5	Fluoride	mg/L	25	0	0	0.75	0.1	0.498	0.53	0.13	26.8	NA	2015-10-21 to 2025-06-03
CAP-7	Fluoride	mg/L	25	19	76	0.83	0.1	0.139	0.1	0.15	104	0.1 - 0.165	2015-10-21 to 2025-06-04
CAP-9	Fluoride	mg/L	24	0	0	4.62	0.5	2.62	2.18	1.2	44.8	NA	2015-10-21 to 2025-06-04
CAP-9	Fluoride	mg/L	1	0	0	1.68	1.68	1.68	1.68	NA	NA	NA	2024-02-01 to 2024-02-01
CBW-1 (Background)	Fluoride	mg/L	26	1	4	0.3	0.1	0.2	0.195	0.055	27.3	0.1 - 0.1	2015-10-19 to 2025-06-03
PM-1 (Background)	Fluoride	mg/L	26	26	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-10-19 to 2025-06-02
Pooled Background	Fluoride	mg/L	52	27	52	0.3	0.1	0.15	0.1	0.063	42.2	0.1 - 0.1	2015-10-19 to 2025-06-03
CAP-1	Lead	mg/L	24	15	62	0.01	0.001	0.00196	0.00155	0.0018	92.5	0.001 - 0.01	2015-10-21 to 2025-06-03
CAP-3	Lead	mg/L	24	24	100	0.01	0.001	0.00169	0.001	0.0019	111	0.001 - 0.01	2015-10-19 to 2025-06-03
CAP-5	Lead	mg/L	24	2	8	0.01	0.0025	0.00631	0.0062	0.0018	28.6	0.0025 - 0.01	2015-10-21 to 2025-06-03
CAP-7	Lead	mg/L	24	24	100	0.01	0.001	0.00206	0.001	0.0025	122	0.001 - 0.01	2015-10-21 to 2025-06-04
CAP-9	Lead	mg/L	24	1	4	0.0379	0.0032	0.0135	0.0122	0.0063	46.6	0.01 - 0.01	2015-10-21 to 2025-06-04
CAP-9	Lead	mg/L	1	0	0	0.0141	0.0141	0.0141	0.0141	NA	NA	NA	2024-09-11 to 2024-09-11
CBW-1 (Background)	Lead	mg/L	26	1	4	0.011	0.002	0.0034	0.00275	0.0021	62.9	0.01 - 0.01	2015-10-19 to 2025-06-03
PM-1 (Background)	Lead	mg/L	26	26	100	0.01	0.001	0.00192	0.001	0.0024	127	0.001 - 0.01	2015-10-19 to 2025-06-02
Pooled Background	Lead	mg/L	52	27	52	0.011	0.001	0.00266	0.0025	0.0024	89.9	0.001 - 0.01	2015-10-19 to 2025-06-03
CAP-1	Lithium	mg/L	25	0	0	0.192	0.0258	0.11	0.107	0.042	38.1	NA	2015-10-21 to 2025-06-03
CAP-3	Lithium	mg/L	25	4	16	0.05	0.00969	0.0133	0.011	0.0079	59.3	0.01 - 0.05	2015-10-19 to 2025-06-03
CAP-5	Lithium	mg/L	25	2	8	0.02	0.005	0.0139	0.0128	0.0035	25	0.005 - 0.01	2015-10-21 to 2025-06-03
CAP-7	Lithium	mg/L	25	25	100	0.05	0.005	0.01	0.01	0.0087	86.6	0.005 - 0.05	2015-10-21 to 2025-06-04
CAP-9	Lithium	mg/L	25	0	0	0.104	0.038	0.0714	0.064	0.017	23.9	NA	2015-10-21 to 2025-06-04
CBW-1 (Background)	Lithium	mg/L	26	25	96	0.02	0.00066	0.00849	0.01	0.0036	42.7	0.005 - 0.02	2015-10-19 to 2025-06-03
PM-1 (Background)	Lithium	mg/L	26	22	85	0.01	0.0037	0.00825	0.01	0.0025	30	0.005 - 0.01	2015-10-19 to 2025-06-02
Pooled Background	Lithium	mg/L	52	47	90	0.02	0.00066	0.00837	0.01	0.0031	36.7	0.005 - 0.02	2015-10-19 to 2025-06-03
CAP-1	Mercury	mg/L	23	22	96	0.001	0.0002	0.000235	0.0002	0.00017	71	0.0002 - 0.001	2015-10-21 to 2025-06-03
CAP-3	Mercury	mg/L	24	23	96	0.001	0.0002	0.000233	0.0002	0.00016	70	0.0002 - 0.001	2015-10-19 to 2025-06-03
CAP-5	Mercury	mg/L	24	23	96	0.001	0.0002	0.000233	0.0002	0.00016	70	0.0002 - 0.001	2015-10-21 to 2025-06-03
CAP-7	Mercury	mg/L	24	21	88	0.001	0.0002	0.00024	0.0002	0.00016	68	0.0002 - 0.001	2015-10-21 to 2025-06-04
CAP-9	Mercury	mg/L	24	21	88	0.001	0.0002	0.00028	0.0002	0.0002	70.9	0.0002 - 0.001	2015-10-21 to 2025-06-04
CBW-1 (Background)	Mercury	mg/L	25	25	100	0.001	0.0002	0.00024	0.0002	0.00016	68	0.0002 - 0.001	2015-10-19 to 2025-06-03
CBW-1 (Background)	Mercury	mg/L	1	1	100	0.0002	0.0002	0.0002	0.0002	NA	NA	0.0002 - 0.0002	2018-11-29 to 2018-11-29
PM-1 (Background)	Mercury	mg/L	25	25	100	0.001	0.0002	0.000248	0.0002	0.00018	70.9	0.0002 - 0.001	2015-10-19 to 2025-06-02
PM-1 (Background)	Mercury	mg/L	1	1	100	0.0002	0.0002	0.0002	0.0002	NA	NA	0.0002 - 0.0002	2018-11-29 to 2018-11-29
Pooled Background	Mercury	mg/L	50	50	100	0.001	0.0002	0.000244	0.0002	0.00017	68.9	0.0002 - 0.001	2015-10-19 to 2025-06-03
CAP-1	Molybdenum	mg/L	21	21	100	0.01	0.005	0.0081	0.01	0.0025	30.7	0.005 - 0.01	2015-10-21 to 2025-06-03
CAP-3	Molybdenum	mg/L	21	21	100	0.01	0.005	0.0081	0.01	0.0025	30.7	0.005 - 0.01	2015-10-19 to 2025-06-03
CAP-5	Molybdenum	mg/L	21	21	100	0.01	0.005	0.0081	0.01	0.0025	30.7	0.005 - 0.01	2015-10-21 to 2025-06-03
CAP-7	Molybdenum	mg/L	21	21	100	0.05	0.005	0.01	0.01	0.0095	94.9	0.005 - 0.05	2015-10-21 to 2025-06-04
CAP-9	Molybdenum	mg/L	21	21	100	0.04	0.005	0.00952	0.01	0.0074	77.7	0.005 - 0.04	2015-10-21 to 2025-06-04
CBW-1 (Background)	Molybdenum	mg/L	24	24	100	0.02	0.005	0.00875	0.01	0.0034	38.6	0.005 - 0.02	2015-10-19 to 2025-06-03
PM-1 (Background)	Molybdenum	mg/L	24	24	100	0.01	0.005	0.00833	0.01	0.0024	28.9	0.005 - 0.01	2015-10-19 to 2025-06-02
Pooled Background	Molybdenum	mg/L	48	48	100	0.02	0.005	0.00854	0.01	0.0029	34.1	0.005 - 0.02	2015-10-19 to 2025-06-03
CAP-1	Radium-226 & 228	pCi/L	24	8	33	5.24	0.789	3.04	3	1.2	40.4	4 - 4	2015-10-21 to 2025-06-03
CAP-3	Radium-226 & 228	pCi/L	24	7	29	4.48	0.423	2.7	2.29	1.3	49.9	4 - 4	2015-10-19 to 2025-06-03
CAP-5	Radium-226 & 228	pCi/L	25	0	0	21.3	7.46	16.7	17.5	3.6	21.7	NA	2015-10-21 to 2025-06-03
CAP-7	Radium-226 & 228	pCi/L	24	4	17	6.56	1.11	3.91	4	1.6	39.9	4 - 4	2015-10-21 to 2025-06-04
CAP-9	Radium-226 & 228	pCi/L	24	5	21	7.31	1.19	4.24	4	1.5	34.7	4 - 4	2015-10-21 to 2025-06-04
CBW-1 (Background)	Radium-226 & 228	pCi/L	25	7	28	6.34	0.346	3	2.82	1.7	55.4	4 - 4	2015-10-19 to 2025-06-03
PM-1 (Background)	Radium-226 & 228	pCi/L	25	6	24	16.3	0.538	3.51	3.44	3.1	88.1	4 - 4	2015-10-19 to 2025-06-02
Pooled Background	Radium-226 & 228	pCi/L	50	13	26	16.3	0.346	3.26	3.17	2.5	75.9	4 - 4	2015-10-19 to 2025-06-03
CAP-1	Selenium	mg/L	22	22	100	0.02	0.0025	0.0106	0.01	0.0044	41.3	0.0025 - 0.02	2015-10-21 to 2025-06-03
CAP-3	Selenium	mg/L	22	22	100	0.02	0.0025	0.0106	0.01	0.0044	41.3	0.0025 - 0.02	2015-10-19 to 2025-06-03
CAP-5	Selenium	mg/L	22	22	100	0.02	0.0025	0.0106	0.01	0.0044	41.3	0.0025 - 0.02	2015-10-21 to 2025-06-03
CAP-7	Selenium	mg/L	22	22	100	0.02	0.0025	0.0106	0.01	0.0044	41.3	0.0025 - 0.02	2015-10-21 to 2025-06-04
CAP-9	Selenium	mg/L	22	19	86	0.031	0.0025	0.0122	0.01	0.0058	47.3	0.0025 - 0.02	2015-10-21 to 2025-06-04
CBW-1 (Background)	Selenium	mg/L	26	26	100	0.05	0.0025	0.0122	0.01	0.0084	68.5	0.0025 - 0.05	2015-10-19 to 2025-06-03
PM-1 (Background)	Selenium	mg/L	26	26	100	0.02	0.0025	0.0107	0.01	0.0038	36	0.0025 - 0.02	2015-10-19 to 2025-06-02
Pooled Background	Selenium	mg/L	52	52	100	0.05	0.0025	0.0115	0.01	0.0065	56.8	0.0025 - 0.05	2015-10-19 to 2025-06-03
CAP-1	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-06-03

Notes: Data collected through the current reporting period are summarized in this table. Data sets used to calculate background limits are summarized in Table A-5 and may not include all data summarized here because background limits are only updated periodically.

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
CAP-3	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-19 to 2025-06-03
CAP-5	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-06-03
CAP-7	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-06-04
CAP-9	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-21 to 2025-06-04
CBW-1 (Background)	Thallium	mg/L	24	24	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-10-19 to 2025-06-03
PM-1 (Background)	Thallium	mg/L	24	24	100	0.01	0.001	0.00137	0.001	0.0018	134	0.001 - 0.01	2015-10-19 to 2025-06-02
Pooled Background	Thallium	mg/L	48	48	100	0.01	0.001	0.00119	0.001	0.0013	109	0.001 - 0.01	2015-10-19 to 2025-06-03

Notes: Data collected through the current reporting period are summarized in this table. Data sets used to calculate background limits are summarized in Table A-5 and may not include all data summarized here because background limits are only updated periodically.

Table A-2. Results of Shapiro-Wilk Test for Normality

		Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
CAP-1	Antimony	0.468	1e-07	21	18	Not normal
CAP-3	Antimony	0.516	2.8e-07	21	17	Not normal
CAP-5	Antimony	0.438	5.8e-08	21	18	Not normal
CAP-7	Antimony	0.391	2.3e-08	21	19	Not normal
CAP-9	Antimony	0.487	1.6e-07	21	19	Not normal
CBW-1 (Background)	Antimony	0.364	4e-13	48	44	Not normal
PM-1 (Background)	Antimony	0.409	1.2e-12	48	44	Not normal
Pooled Background	Antimony	0.409	1.2e-12	48	44	Not normal
Pooled Background	Antimony	0.364	4e-13	48	44	Not normal
CAP-1	Arsenic	0.588	2.1e-07	26	25	Not normal
CAP-3	Arsenic	NA	NA	26	26	Not Evaluated - All Non-Detect Results
CAP-5	Arsenic	NA	NA	26	26	Not Evaluated - All Non-Detect Results
CAP-7	Arsenic	0.698	5e-06	26	17	Not normal
CAP-9	Arsenic	0.940	0.14	26	3	Normal
CBW-1 (Background)	Arsenic	0.392	2.3e-13	52	46	Not normal
PM-1 (Background)	Arsenic	0.560	3e-11	52	46	Not normal
Pooled Background	Arsenic	0.560	3e-11	52	46	Not normal
Pooled Background	Arsenic	0.392	2.3e-13	52	46	Not normal
CAP-1	Barium	0.968	0.57	26	0	Normal
CAP-3	Barium	0.622	5.4e-07	26	0	Not normal
CAP-5	Barium	0.851	0.0015	26	0	Not normal
CAP-7	Barium	0.895	0.012	26	0	Not normal
CAP-9	Barium	0.966	0.52	26	0	Normal
CBW-1 (Background)	Barium	0.812	1.2e-06	52	0	Not normal
PM-1 (Background)	Barium	0.886	0.00013	52	0	Not normal
Pooled Background	Barium	0.886	0.00013	52	0	Not normal
Pooled Background	Barium	0.812	1.2e-06	52	0	Not normal
CAP-1	Beryllium	0.965	0.52	25	0	Normal
CAP-3	Beryllium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-5	Beryllium	0.908	0.027	25	0	Not normal
CAP-7	Beryllium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-9	Beryllium	0.962	0.45	25	0	Normal
CBW-1 (Background)	Beryllium	0.198	4.9e-15	50	48	Not normal
PM-1 (Background)	Beryllium	NA	NA	52	52	Not Evaluated - All Non-Detect Results
Pooled Background	Beryllium	0.198	4.9e-15	50	48	Not normal
Pooled Background	Beryllium	NA	NA	52	52	Not Evaluated - All Non-Detect Results
CAP-1	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-3	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-5	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-7	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-9	Cadmium	0.399	4.4e-09	25	23	Not normal
CBW-1 (Background)	Cadmium	NA	NA	50	50	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Cadmium	NA	NA	50	50	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	50	50	Not Evaluated - All Non-Detect Results
CAP-1	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-3	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-5	Chromium	0.235	2.1e-10	25	24	Not normal
CAP-7	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-9	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CBW-1 (Background)	Chromium	0.198	4.9e-15	50	48	Not normal
PM-1 (Background)	Chromium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.198	4.9e-15	50	48	Not normal
Pooled Background	Chromium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
CAP-1	Cobalt	0.960	0.41	25	0	Normal
CAP-3	Cobalt	0.859	0.0026	25	0	Not normal
CAP-5	Cobalt	0.936	0.12	25	0	Normal
CAP-7	Cobalt	0.977	0.83	25	0	Normal
CAP-9	Cobalt	0.944	0.18	25	0	Normal
CBW-1 (Background)	Cobalt	0.514	7.2e-12	52	2	Not normal
PM-1 (Background)	Cobalt	0.742	3.3e-08	52	2	Not normal

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
		W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Cobalt	0.742	3.3e-08	52	2	Not normal
Pooled Background	Cobalt	0.514	7.2e-12	52	2	Not normal
CAP-1	Fluoride	0.971	0.68	25	1	Normal
CAP-3	Fluoride	0.574	2.2e-07	25	19	Not normal
CAP-5	Fluoride	0.877	0.006	25	0	Not normal
CAP-7	Fluoride	0.348	1.6e-09	25	19	Not normal
CAP-9	Fluoride	0.912	0.034	25	0	Not normal
CBW-1 (Background)	Fluoride	0.969	0.19	52	2	Normal
PM-1 (Background)	Fluoride	NA	NA	52	52	Not Evaluated - All Non-Detect Results
Pooled Background	Fluoride	0.969	0.19	52	2	Normal
Pooled Background	Fluoride	NA	NA	52	52	Not Evaluated - All Non-Detect Results
CAP-1	Lead	0.729	2.5e-05	24	15	Not normal
CAP-3	Lead	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-5	Lead	0.939	0.15	24	2	Normal
CAP-7	Lead	NA	NA	24	24	Not Evaluated - All Non-Detect Results
CAP-9	Lead	0.792	0.00017	25	1	Not normal
CBW-1 (Background)	Lead	0.476	2.3e-12	52	2	Not normal
PM-1 (Background)	Lead	NA	NA	52	52	Not Evaluated - All Non-Detect Results
Pooled Background	Lead	0.476	2.3e-12	52	2	Not normal
Pooled Background	Lead	NA	NA	52	52	Not Evaluated - All Non-Detect Results
CAP-1	Lithium	0.946	0.2	25	0	Normal
CAP-3	Lithium	0.849	0.0017	25	4	Not normal
CAP-5	Lithium	0.886	0.0091	25	2	Not normal
CAP-7	Lithium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
CAP-9	Lithium	0.895	0.014	25	0	Not normal
CBW-1 (Background)	Lithium	0.737	2.6e-08	52	50	Not normal
PM-1 (Background)	Lithium	0.592	8.9e-11	52	44	Not normal
Pooled Background	Lithium	0.592	8.9e-11	52	44	Not normal
Pooled Background	Lithium	0.737	2.6e-08	52	50	Not normal
CAP-1	Mercury	0.285	1.3e-09	23	22	Not normal
CAP-3	Mercury	0.277	7e-10	24	23	Not normal
CAP-5	Mercury	0.277	7e-10	24	23	Not normal
CAP-7	Mercury	0.448	1.8e-08	24	21	Not normal
CAP-9	Mercury	0.524	9.7e-08	24	21	Not normal
CBW-1 (Background)	Mercury	NA	NA	51	51	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Mercury	NA	NA	51	51	Not Evaluated - All Non-Detect Results
Pooled Background	Mercury	NA	NA	51	51	Not Evaluated - All Non-Detect Results
CAP-1	Molybdenum	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-3	Molybdenum	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-5	Molybdenum	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-7	Molybdenum	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-9	Molybdenum	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CBW-1 (Background)	Molybdenum	NA	NA	48	48	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Molybdenum	NA	NA	48	48	Not Evaluated - All Non-Detect Results
Pooled Background	Molybdenum	NA	NA	48	48	Not Evaluated - All Non-Detect Results
CAP-1	Radium-226 & 228	0.816	0.00055	24	8	Not normal
CAP-3	Radium-226 & 228	0.867	0.0045	24	7	Not normal
CAP-5	Radium-226 & 228	0.894	0.014	25	0	Not normal
CAP-7	Radium-226 & 228	0.905	0.027	24	4	Not normal
CAP-9	Radium-226 & 228	0.940	0.17	24	5	Normal
CBW-1 (Background)	Radium-226 & 228	0.831	4.9e-06	50	14	Not normal
PM-1 (Background)	Radium-226 & 228	0.600	1.9e-10	50	12	Not normal
Pooled Background	Radium-226 & 228	0.600	1.9e-10	50	12	Not normal
Pooled Background	Radium-226 & 228	0.831	4.9e-06	50	14	Not normal
CAP-1	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CAP-3	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CAP-5	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CAP-7	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
CAP-9	Selenium	0.575	7.2e-07	22	19	Not normal
CBW-1 (Background)	Selenium	NA	NA	52	52	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Selenium	NA	NA	52	52	Not Evaluated - All Non-Detect Results
Pooled Background	Selenium	NA	NA	52	52	Not Evaluated - All Non-Detect Results
CAP-1	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Location	Constituent	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)				
		W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
CAP-3	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-5	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-7	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CAP-9	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
CBW-1 (Background)	Thallium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
PM-1 (Background)	Thallium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	48	48	Not Evaluated - All Non-Detect Results

Notes: Results for data sets used to calculate background limits are summarized in Table A-5 and selected distributions for testing may differ from distributions shown in this table. Final distributions for background limits calculation and LCL calculations are determined based on both goodness-of-fit test results, and based on visual review of probability, time series, and box plots.

Table A-3. Results of Rosner/Dixon Test for Outliers

				Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)						
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CAP-1	Antimony	21	18	Dixon	0.955	0	NA	NA	Yes	No
CAP-3	Antimony	21	17	Dixon	0.965	0	NA	NA	Yes	No
CAP-5	Antimony	21	18	Dixon	0.99	0	NA	NA	Yes	No
CAP-7	Antimony	21	19	Dixon	0.98	0	NA	NA	Yes	No
CAP-9	Antimony	21	19	Dixon	0.995	0	NA	NA	Yes	No
CBW-1	Antimony	48	44	Rosner	4.735, 6.681, 3.385	NA	3.112, 3.103, 3.094	3	NA	No
PM-1	Antimony	48	44	Rosner	4.599, 6.321, 4.564	NA	3.112, 3.103, 3.094	3	NA	No
CAP-1	Arsenic	26	25	Rosner	3.927, 1.989, 2.228	NA	2.841, 2.822, 2.802	1	NA	No
CAP-3	Arsenic	26	26	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Arsenic	26	26	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-7	Arsenic	26	17	Rosner	3.172, 3.983, 3.244	NA	2.841, 2.822, 2.802	3	NA	No
CAP-9	Arsenic	26	3	Rosner	2.82, 2.272, 2.258	NA	2.841, 2.822, 2.802	0	NA	No
CBW-1	Arsenic	52	46	Rosner	4.678, 6.297, 2.422	NA	3.144, 3.136, 3.128	2	NA	No
PM-1	Arsenic	52	46	Rosner	4.32, 5.508, 3.028	NA	3.144, 3.136, 3.128	2	NA	No
CAP-1	Barium	26	0	Rosner	2.035, 1.886, 1.93	NA	2.841, 2.822, 2.802	0	NA	No
CAP-3	Barium	26	0	Rosner	4.291, 2.996, 2.58	NA	2.841, 2.822, 2.802	2	NA	No
CAP-5	Barium	26	0	Rosner	3.665, 2.052, 1.703	NA	2.841, 2.822, 2.802	1	NA	No
CAP-7	Barium	26	0	Rosner	2.545, 2.763, 1.829	NA	2.841, 2.822, 2.802	0	NA	No
CAP-9	Barium	26	0	Rosner	2.441, 1.727, 1.832	NA	2.841, 2.822, 2.802	0	NA	No
CBW-1	Barium	52	0	Rosner	3.753, 4.47, 2.635	NA	3.144, 3.136, 3.128	2	NA	No
PM-1	Barium	52	0	Rosner	2.81, 3.091, 3.002	NA	3.144, 3.136, 3.128	0	NA	No
CAP-1	Beryllium	25	0	Dixon	0.2666	0.576	NA	NA	No	No
CAP-3	Beryllium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Beryllium	25	0	Dixon	0.5143	0.01046	NA	NA	Yes	No
CAP-7	Beryllium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Beryllium	25	0	Dixon	0.3981	0.1136	NA	NA	No	No
CBW-1	Beryllium	50	48	Rosner	4.85, 6.857, NA	NA	3.128, 3.12, 3.112	2	NA	No
PM-1	Beryllium	52	52	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-3	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-7	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Cadmium	25	23	Dixon	0.8286	0	NA	NA	Yes	No
CBW-1	Cadmium	50	50	Rosner	All results are non-detect	NA	NA	NA	NA	No
PM-1	Cadmium	50	50	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-3	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Chromium	25	24	Dixon	1	0	NA	NA	Yes	No
CAP-7	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CBW-1	Chromium	50	48	Rosner	4.85, 6.857, NA	NA	3.128, 3.12, 3.112	2	NA	No
PM-1	Chromium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Cobalt	25	0	Dixon	0.299	0.4215	NA	NA	No	No
CAP-3	Cobalt	25	0	Dixon	0.6059	0	NA	NA	Yes	No
CAP-5	Cobalt	25	0	Dixon	0.4828	0.02318	NA	NA	Yes	No
CAP-7	Cobalt	25	0	Dixon	0.3158	0.3513	NA	NA	No	No
CAP-9	Cobalt	25	0	Dixon	0.06109	0.1491	NA	NA	No	No
CBW-1	Cobalt	52	2	Rosner	4.677, 6.296, 2.328	NA	3.144, 3.136, 3.128	2	NA	No
PM-1	Cobalt	52	2	Rosner	4.609, 6.134, 2.609	NA	3.144, 3.136, 3.128	2	NA	No
CAP-1	Fluoride	25	1	Dixon	0.1488	0.6709	NA	NA	No	No
CAP-3	Fluoride	25	19	Dixon	0.3333	0.2851	NA	NA	No	No
CAP-5	Fluoride	25	0	Dixon	0.4	0.1103	NA	NA	No	No
CAP-7	Fluoride	25	19	Dixon	0.9178	0	NA	NA	Yes	No
CAP-9	Fluoride	25	0	Dixon	0.241	0.7164	NA	NA	No	No
CBW-1	Fluoride	52	2	Rosner	1.854, 1.939, 1.872	NA	3.144, 3.136, 3.128	0	NA	No
PM-1	Fluoride	52	52	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Lead	24	15	Dixon	0.8333	0	NA	NA	Yes	No
CAP-3	Lead	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Lead	24	2	Dixon	0.3651	0.2053	NA	NA	No	No
CAP-7	Lead	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Lead	25	1	Dixon	0.6644	0	NA	NA	Yes	No
CBW-1	Lead	52	2	Rosner	3.595, 4.215, 4.656	NA	3.144, 3.136, 3.128	3	NA	No
PM-1	Lead	52	52	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Lithium	25	0	Dixon	0.1972	0.9915	NA	NA	No	No
CAP-3	Lithium	25	4	Dixon	0.875	0	NA	NA	Yes	No
CAP-5	Lithium	25	2	Dixon	0.4718	0.02957	NA	NA	Yes	No

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CAP-7	Lithium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Lithium	25	0	Dixon	0.3119	0.367	NA	NA	No	No
CBW-1	Lithium	52	50	Rosner	3.212, 3.639, 2.646	NA	3.144, 3.136, 3.128	2	NA	No
PM-1	Lithium	52	44	Rosner	1.859, 1.945, 1.483	NA	3.144, 3.136, 3.128	0	NA	No
CAP-1	Mercury	23	22	Dixon	1	0	NA	NA	Yes	No
CAP-3	Mercury	24	23	Dixon	1	0	NA	NA	Yes	No
CAP-5	Mercury	24	23	Dixon	1	0	NA	NA	Yes	No
CAP-7	Mercury	24	21	Dixon	0.95	0	NA	NA	Yes	No
CAP-9	Mercury	24	21	Dixon	0.5	0.01865	NA	NA	Yes	No
CBW-1	Mercury	51	51	Rosner	All results are non-detect	NA	NA	NA	NA	No
PM-1	Mercury	51	51	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Molybdenum	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-3	Molybdenum	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Molybdenum	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-7	Molybdenum	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Molybdenum	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CBW-1	Molybdenum	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
PM-1	Molybdenum	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Radium-226 & 228	24	8	Dixon	0.1716	0.7972	NA	NA	No	No
CAP-3	Radium-226 & 228	24	7	Dixon	0.1132	0.4137	NA	NA	No	No
CAP-5	Radium-226 & 228	25	0	Dixon	0.3105	0.373	NA	NA	No	No
CAP-7	Radium-226 & 228	24	4	Dixon	0.1107	0.3979	NA	NA	No	No
CAP-9	Radium-226 & 228	24	5	Dixon	0.1689	0.7789	NA	NA	No	No
CBW-1	Radium-226 & 228	50	14	Rosner	2.024, 2.137, 1.648	NA	3.128, 3.12, 3.112	0	NA	No
PM-1	Radium-226 & 228	50	12	Rosner	4.179, 5.292, 2.595	NA	3.128, 3.12, 3.112	2	NA	No
CAP-1	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-3	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-7	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Selenium	22	19	Dixon	0.5238	0.01601	NA	NA	Yes	No
CBW-1	Selenium	52	52	Rosner	All results are non-detect	NA	NA	NA	NA	No
PM-1	Selenium	52	52	Rosner	All results are non-detect	NA	NA	NA	NA	No
CAP-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-3	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-5	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-7	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CAP-9	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
CBW-1	Thallium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
PM-1	Thallium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall and Thiel Sen Trend Tests

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CAP-1	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	21	3	0.693	NA	NA	NA	NA	8	3	2019-02-14 to 2025-06-03	0.466	0.713	0.0315	96.9	16
CAP-3	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	21	4	0.672	NA	NA	NA	NA	8	4	2019-02-14 to 2025-06-03	0.414	0.784	0.0158	98.4	19
CAP-5	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	21	3	0.686	NA	NA	NA	NA	8	3	2019-02-18 to 2025-06-03	0.405	0.413	0.247	75.3	9
CAP-7	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	21	2	0.706	NA	NA	NA	NA	8	2	2019-02-18 to 2025-06-04	0.439	0.157	0.742	25.8	3
CAP-9	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	21	2	0.758	NA	NA	NA	NA	8	2	2019-02-18 to 2025-06-04	0.432	0.367	0.324	67.6	7
CBW-1 (Background)	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	48	4	0.681	NA	NA	NA	NA	8	4	2020-06-22 to 2025-06-03	0.437	0.845	0.0102	99	20
PM-1 (Background)	Antimony	Not Evaluated - Majority of data (>75%) non-detect.	Increasing	48	4	0.663	NA	NA	NA	NA	8	4	2020-06-22 to 2025-06-02	0.413	0.845	0.0102	99	20
CAP-1	Arsenic	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	26	1	0.264	NA	NA	NA	NA	8	1	2020-06-25 to 2025-06-03	0.364	NA	NA	NA	NA
CAP-3	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	26	0	0.276	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	0.423	NA	NA	NA	NA
CAP-5	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	26	0	0.276	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	0.423	NA	NA	NA	NA
CAP-7	Arsenic	Probably Decreasing	Decreasing	26	9	0.529	-0.28	0.0726	92.7	-72	8	2	2020-06-30 to 2025-06-04	0.341	-0.802	0.0148	98.5	-18
CAP-9	Arsenic	Stable	Increasing	26	23	0.331	-0.0402	0.791	20.9	-13	8	6	2020-06-29 to 2025-06-04	0.373	0.714	0.0187	98.1	20
CBW-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	52	6	0.88	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	52	6	0.242	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Barium	Decreasing	Stable	26	26	0.355	-0.397	0.00478	99.5	-129	8	8	2020-06-25 to 2025-06-03	0.381	-0.429	0.174	82.6	-12
CAP-3	Barium	Decreasing	Stable	26	26	0.444	-0.349	0.0135	98.7	-113	8	8	2020-06-30 to 2025-06-03	0.25	-0.357	0.266	73.4	-10
CAP-5	Barium	No Trend	Stable	26	26	0.126	0.139	0.332	66.8	45	8	8	2020-06-30 to 2025-06-03	0.096	-0.429	0.174	82.6	-12
CAP-7	Barium	Increasing	Stable	26	26	0.172	0.318	0.0245	97.5	103	8	8	2020-06-30 to 2025-06-04	0.221	-0.5	0.108	89.2	-14
CAP-9	Barium	Decreasing	Stable	26	26	0.407	-0.653	0.00000329	100	-212	8	8	2020-06-29 to 2025-06-04	0.288	-0.0714	0.902	9.8	-2
CBW-1 (Background)	Barium	Decreasing	Stable	52	52	0.117	-0.402	0.0000357	100	-524	8	8	2020-06-22 to 2025-06-03	0.042	-0.309	0.371	62.9	-8
PM-1 (Background)	Barium	Stable	Probably Increasing	52	52	0.0915	-0.0703	0.472	52.8	-92	8	8	2020-06-22 to 2025-06-02	0.055	0.617	0.0555	94.5	16
CAP-1	Beryllium	Increasing	Stable	25	25	0.459	0.385	0.00771	99.2	115	8	8	2020-06-25 to 2025-06-03	0.26	-0.327	0.319	68.1	-9
CAP-3	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-5	Beryllium	No Trend	Decreasing	25	25	0.195	0.218	0.139	86.1	64	8	8	2020-06-30 to 2025-06-03	0.153	-0.764	0.0126	98.7	-21
CAP-7	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-04	0.314	NA	NA	NA	NA
CAP-9	Beryllium	Increasing	Stable	25	25	0.167	0.302	0.0374	96.3	90	8	8	2020-06-29 to 2025-06-04	0.132	-0.286	0.386	61.4	-8
CBW-1 (Background)	Beryllium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	50	2	0.284	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	52	0	1.3	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.09	NA	NA	NA	NA	8	0	2020-06-25 to 2025-06-03	1.32	NA	NA	NA	NA
CAP-3	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.09	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	1.32	NA	NA	NA	NA
CAP-5	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.09	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	1.32	NA	NA	NA	NA
CAP-7	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.09	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-04	1.32	NA	NA	NA	NA
CAP-9	Cadmium	Not Evaluated - Majority of data (>75%) non-detect.	Decreasing	25	2	1.1	NA	NA	NA	NA	8	2	2020-06-29 to 2025-06-04	0.966	-0.802	0.0148	98.5	-18
CBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	50	0	1.08	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	50	0	1.35	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-06-25 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-3	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-5	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	25	1	1.29	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-7	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-04	0.314	NA	NA	NA	NA
CAP-9	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-06-29 to 2025-06-04	0.314	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CBW-1 (Background)	Chromium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	50	2	0.769	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0	NA	NA	NA	NA	8	0	2020-02-24 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Cobalt	Increasing	No Trend	25	25	0.334	0.397	0.00584	99.4	119	8	8	2020-06-25 to 2025-06-03	0.169	0.143	0.711	28.9	4
CAP-3	Cobalt	No Trend	Decreasing	25	25	0.136	0.118	0.426	57.4	35	8	8	2020-06-30 to 2025-06-03	0.105	-0.714	0.0187	98.1	-20
CAP-5	Cobalt	Increasing	Probably Decreasing	25	25	0.165	0.369	0.0108	98.9	110	8	8	2020-06-30 to 2025-06-03	0.108	-0.571	0.0635	93.7	-16
CAP-7	Cobalt	Decreasing	Decreasing	25	25	0.2	-0.472	0.00107	99.9	-141	8	8	2020-06-30 to 2025-06-04	0.27	-0.909	0.00277	99.7	-25
CAP-9	Cobalt	Increasing	Stable	25	25	0.259	0.582	0.0000528	100	174	8	8	2020-06-29 to 2025-06-04	0.246	0	1	0	0
CBW-1 (Background)	Cobalt	Decreasing	Stable	52	50	0.536	-0.469	0.00000137	100	-612	8	8	2020-06-22 to 2025-06-03	0.13	0	1	0	0
PM-1 (Background)	Cobalt	Increasing	No Trend	52	50	0.35	0.609	0	100	776	8	8	2020-06-22 to 2025-06-02	0.074	0.507	0.137	86.3	12
CAP-1	Fluoride	Increasing	Stable	25	24	0.586	0.504	0.000458	100	151	8	8	2020-06-25 to 2025-06-03	0.367	-0.357	0.266	73.4	-10
CAP-3	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	25	6	0.443	NA	NA	NA	NA	8	1	2020-06-30 to 2025-06-03	0.32	NA	NA	NA	NA
CAP-5	Fluoride	No Trend	Stable	25	25	0.268	0.0643	0.673	32.7	19	8	8	2020-06-30 to 2025-06-03	0.129	-0.109	0.803	19.7	-3
CAP-7	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	6	1.56	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-04	0.213	NA	NA	NA	NA
CAP-9	Fluoride	No Trend	No Trend	25	25	0.451	0.15	0.304	69.6	45	8	8	2020-06-29 to 2025-06-04	0.507	0.143	0.711	28.9	4
CBW-1 (Background)	Fluoride	Decreasing	Probably Decreasing	52	50	0.295	-0.701	0.00000000000103	100	-900	8	8	2020-06-22 to 2025-06-03	0.0937	-0.617	0.0555	94.5	-16
PM-1 (Background)	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	52	0	0	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Lead	Increasing	Stable	24	9	0.751	0.388	0.0136	98.6	97	8	4	2020-06-25 to 2025-06-03	0.714	-0.109	0.803	19.7	-3
CAP-3	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-03	1.24	NA	NA	NA	NA
CAP-5	Lead	Increasing	Stable	24	22	0.293	0.333	0.0253	97.5	91	8	7	2020-06-30 to 2025-06-03	0.286	-0.109	0.803	19.7	-3
CAP-7	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.22	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-04	1.24	NA	NA	NA	NA
CAP-9	Lead	Increasing	Stable	25	24	0.477	0.453	0.00162	99.8	136	8	8	2021-02-02 to 2025-06-04	0.441	-0.214	0.536	46.4	-6
CBW-1 (Background)	Lead	Decreasing	Stable	52	50	0.525	-0.577	0.00000000402	100	-744	8	8	2020-06-22 to 2025-06-03	0.0858	-0.169	0.685	31.5	-4
PM-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	52	0	1.26	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Lithium	Increasing	No Trend	25	25	0.381	0.331	0.0221	97.8	99	8	8	2020-06-25 to 2025-06-03	0.302	0.429	0.174	82.6	12
CAP-3	Lithium	No Trend	Stable	25	21	0.344	0.196	0.188	81.2	57	8	8	2020-06-30 to 2025-06-03	0.165	-0.0714	0.902	9.8	-2
CAP-5	Lithium	Increasing	Stable	25	23	0.301	0.409	0.00566	99.4	118	8	7	2020-06-30 to 2025-06-03	0.378	-0.286	0.386	61.4	-8
CAP-7	Lithium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.866	NA	NA	NA	NA	8	0	2020-06-30 to 2025-06-04	0.314	NA	NA	NA	NA
CAP-9	Lithium	Increasing	Increasing	25	25	0.239	0.57	0.0000777	100	170	8	8	2020-06-29 to 2025-06-04	0.248	0.643	0.0354	96.5	18
CBW-1 (Background)	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	52	2	0.415	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Stable	52	8	0.227	NA	NA	NA	NA	8	4	2020-06-22 to 2025-06-02	0.371	-0.507	0.137	86.3	-12
CAP-1	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.699	NA	NA	NA	NA	8	1	2020-06-25 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-3	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.689	NA	NA	NA	NA	8	1	2020-06-30 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-5	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.689	NA	NA	NA	NA	8	1	2020-06-30 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-7	Mercury	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	24	3	0.685	NA	NA	NA	NA	8	1	2020-06-30 to 2025-06-04	0.496	NA	NA	NA	NA
CAP-9	Mercury	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	24	3	0.9	NA	NA	NA	NA	8	1	2020-06-29 to 2025-06-04	1.05	NA	NA	NA	NA
CBW-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	51	0	0.669	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	51	0	0.698	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.307	NA	NA	NA	NA	8	0	2019-02-14 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-3	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.307	NA	NA	NA	NA	8	0	2019-02-14 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-5	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.307	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-03	0.314	NA	NA	NA	NA
CAP-7	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.949	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-04	0.314	NA	NA	NA	NA

Note:

Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends.

		Mann Kendall Trends		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
CAP-9	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.777	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-04	0.314	NA	NA	NA	NA
CBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.382	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.286	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Radium-226 & 228	No Trend	Probably Decreasing	24	16	0.442	0.161	0.299	70.1	42	8	8	2020-06-25 to 2025-06-03	0.32	-0.571	0.0635	93.7	-16
CAP-3	Radium-226 & 228	Decreasing	Stable	24	17	0.492	-0.332	0.0286	97.1	-88	8	8	2020-06-30 to 2025-06-03	0.558	-0.357	0.266	73.4	-10
CAP-5	Radium-226 & 228	No Trend	Stable	25	25	0.217	0.0902	0.544	45.6	27	8	8	2020-07-29 to 2025-06-03	0.275	0	1	0	0
CAP-7	Radium-226 & 228	Stable	Stable	24	20	0.48	-0.0147	0.941	5.9	-4	8	8	2020-06-30 to 2025-06-04	0.441	0	1	0	0
CAP-9	Radium-226 & 228	Increasing	No Trend	24	19	0.458	0.34	0.0233	97.7	92	8	8	2020-06-29 to 2025-06-04	0.287	0.214	0.536	46.4	6
CBW-1 (Background)	Radium-226 & 228	Decreasing	Probably Decreasing	50	36	0.634	-0.243	0.0165	98.4	-284	8	8	2020-06-22 to 2025-06-03	0.482	-0.617	0.0555	94.5	-16
PM-1 (Background)	Radium-226 & 228	Decreasing	Probably Decreasing	50	38	1.02	-0.247	0.0141	98.6	-292	8	8	2020-06-22 to 2025-06-02	0.351	-0.617	0.0555	94.5	-16
CAP-1	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.413	NA	NA	NA	NA	8	0	2019-02-14 to 2025-06-03	0.524	NA	NA	NA	NA
CAP-3	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.413	NA	NA	NA	NA	8	0	2019-02-14 to 2025-06-03	0.524	NA	NA	NA	NA
CAP-5	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.413	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-03	0.524	NA	NA	NA	NA
CAP-7	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.413	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-04	0.524	NA	NA	NA	NA
CAP-9	Selenium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	22	3	0.814	NA	NA	NA	NA	8	1	2019-02-18 to 2025-06-04	0.622	NA	NA	NA	NA
CBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	52	0	0.679	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	52	0	0.357	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA
CAP-1	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-14 to 2025-06-03	0	NA	NA	NA	NA
CAP-3	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-14 to 2025-06-03	0	NA	NA	NA	NA
CAP-5	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-03	0	NA	NA	NA	NA
CAP-7	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-04	0	NA	NA	NA	NA
CAP-9	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-18 to 2025-06-04	0	NA	NA	NA	NA
CBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-03	0	NA	NA	NA	NA
PM-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	1.32	NA	NA	NA	NA	8	0	2020-06-22 to 2025-06-02	0	NA	NA	NA	NA

Note:
Mann Kendall Trends are classified based on Aziz (2003) guidance. Thiel-Sen slope only calculated for groups with increasing or decreasing trends.

Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS)

		Interwell Background Data Characterization [a]												Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		
Constituent	Units	n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method	UTL calculation details	Minimum Coverage (%)
Antimony	mg/L	46	44	0.025	0.0059	0.00601	0.005	2015-10-19	2025-01-14	0.00416	0.692	No Trend	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Arsenic	mg/L	50	44	0.01	0.016	0.00512	0.005	2015-10-19	2025-01-14	0.00186	0.364	Probably Decreasing	Not normal (Interwell Background)	NA - Original Data	0.016	Yes	0.01	0.016	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Barium	mg/L	50	0	NA	0.103	0.0622	0.0656	2015-10-19	2025-01-14	0.0208	0.334	Stable	Not normal (Interwell Background)	NA - Original Data	0.103	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Beryllium	mg/L	49	48	0.005	0.00063	0.000594	0.0005	2015-10-19	2025-01-14	0.000643	1.08	No Trend	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.004	0.005	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.1
Cadmium	mg/L	48	48	0.005	NA	0.00074	0.0005	2015-10-19	2025-01-14	0.000945	1.28	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Chromium	mg/L	47	46	0.005	0.014	0.00519	0.005	2015-10-19	2025-01-14	0.00131	0.253	Probably Decreasing	Not normal (Interwell Background)	NA - Original Data	0.014	Yes	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.8
Cobalt	mg/L	50	2	0.005	0.0034	0.00111	0.00092	2015-10-19	2025-01-14	0.000702	0.632	Stable	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.006	0.006	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Fluoride	mg/L	50	26	0.1	0.3	0.152	0.1	2015-10-19	2025-01-14	0.0638	0.421	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.3	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lead	mg/L	50	26	0.01	0.011	0.0027	0.0025	2015-10-19	2025-01-14	0.00243	0.899	Stable	Not normal (Interwell Background)	NA - Original Data	0.011	Yes	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lithium	mg/L	50	45	0.02	0.00544	0.0085	0.01	2015-10-19	2025-01-14	0.00306	0.359	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Mercury	mg/L	50	50	0.001	NA	0.000244	0.0002	2015-10-19	2025-01-14	0.000168	0.689	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Molybdenum	mg/L	46	46	0.02	NA	0.0087	0.01	2015-10-19	2025-01-14	0.00287	0.331	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Radium-226 & 228	pCi/L	48	13	4	16.3	3.35	3.57	2015-10-19	2025-01-14	2.48	0.742	Decreasing	Not normal (Interwell Background)	NA - Original Data	16.3	Yes	5	16.3	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Selenium	mg/L	50	50	0.05	NA	0.0115	0.01	2015-10-19	2025-01-14	0.00663	0.576	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Thallium	mg/L	46	46	0.01	NA	0.0012	0.001	2015-10-19	2025-01-14	0.00133	1.11	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.002	0.01	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells (CBW-1 and PM-1). Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

			Confidence Interval (CI) Dataset						CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics	
Location	Chemical	Units	n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
CAP-1	Beryllium	mg/L	25	0.0116	0.00051	0.00652	0.00648	0.00297	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.00771	0.00525	0.005	Yes, SSL	NA	NA
CAP-9	Beryllium	mg/L	25	0.0245	0.0123	0.0165	0.017	0.00283	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.0181	0.0158	0.005	Yes, SSL	NA	NA
CAP-1	Cobalt	mg/L	25	0.0287	0.0036	0.0172	0.0182	0.00607	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.0207	0.0157	0.006	Yes, SSL	NA	NA
CAP-3	Cobalt	mg/L	25	0.0328	0.0142	0.0267	0.027	0.00366	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.0286	0.0252	0.006	Yes, SSL	10000	0.0265
CAP-5	Cobalt	mg/L	25	0.0174	0.0068	0.0133	0.0133	0.0022	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.0142	0.0124	0.006	Yes, SSL	NA	NA
CAP-7	Cobalt	mg/L	25	0.015	0.006	0.0102	0.0101	0.00202	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.0109	0.00924	0.006	Yes, SSL	NA	NA
CAP-9	Cobalt	mg/L	25	0.0501	0.0155	0.036	0.0349	0.00903	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.0386	0.0311	0.006	Yes, SSL	NA	NA
CAP-1	Lithium	mg/L	25	0.192	0.0258	0.107	0.11	0.0421	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	24	0.128	0.093	0.040	Yes, SSL	NA	NA
CAP-9	Lithium	mg/L	25	0.104	0.038	0.064	0.0714	0.017	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.0776	0.062	0.040	Yes, SSL	10000	0.064
CAP-5	Radium-226 & 228	pCi/L	25	21.3	7.46	17.5	16.7	3.62	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	19	15.6	16.300	No	10000	17.2

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

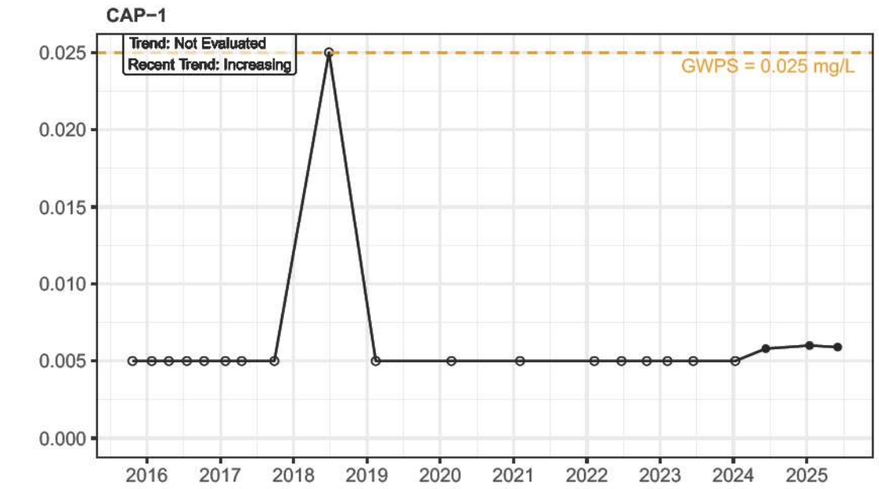
[a] The 95% lower confience level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

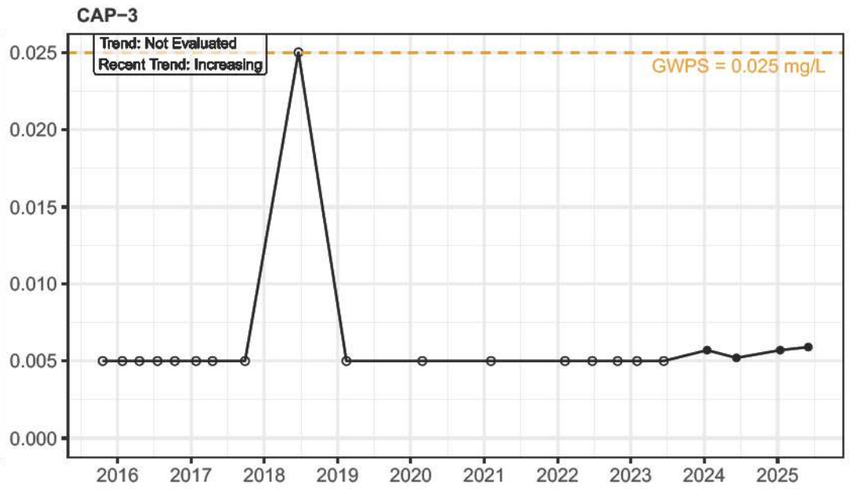
Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

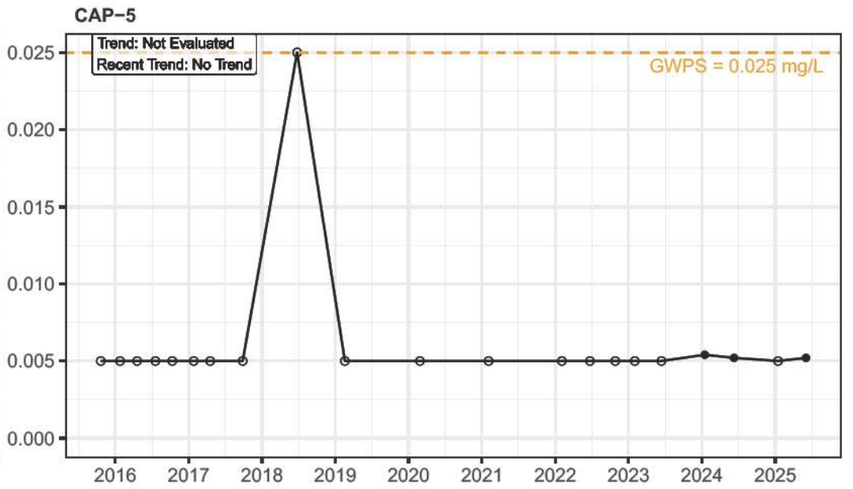
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CAP-1	Beryllium	mg/L	2025-06-03	0.0069	0.005	0.005	Yes	0.00525	Yes
CAP-9	Beryllium	mg/L	2025-06-04	0.0184	0.005	0.005	Yes	0.0158	Yes
CAP-1	Cobalt	mg/L	2025-06-03	0.0236	0.005	0.006	Yes	0.0157	Yes
CAP-3	Cobalt	mg/L	2025-06-03	0.0245	0.005	0.006	Yes	0.0252	Yes
CAP-5	Cobalt	mg/L	2025-06-03	0.013	0.005	0.006	Yes	0.0124	Yes
CAP-7	Cobalt	mg/L	2025-06-04	0.0062	0.005	0.006	Yes	0.00924	Yes
CAP-9	Cobalt	mg/L	2025-06-04	0.047	0.005	0.006	Yes	0.0311	Yes
CAP-1	Lithium	mg/L	2025-06-03	0.184	0.02	0.04	Yes	0.093	Yes
CAP-9	Lithium	mg/L	2025-06-04	0.0986	0.02	0.04	Yes	0.062	Yes
CAP-1	Antimony	mg/L	2025-06-03	0.0059	0.025	0.025	No	NA	No
CAP-3	Antimony	mg/L	2025-06-03	0.0059	0.025	0.025	No	NA	No
CAP-5	Antimony	mg/L	2025-06-03	0.0052	0.025	0.025	No	NA	No
CAP-7	Antimony	mg/L	2025-06-04	0.005	0.025	0.025	No	NA	No
CAP-9	Antimony	mg/L	2025-06-04	0.005	0.025	0.025	No	NA	No
CAP-1	Arsenic	mg/L	2025-06-03	0.005	0.016	0.016	No	NA	No
CAP-3	Arsenic	mg/L	2025-06-03	0.005	0.016	0.016	No	NA	No
CAP-5	Arsenic	mg/L	2025-06-03	0.005	0.016	0.016	No	NA	No
CAP-7	Arsenic	mg/L	2025-06-04	0.005	0.016	0.016	No	NA	No
CAP-9	Arsenic	mg/L	2025-06-04	0.0081	0.016	0.016	No	NA	No
CAP-1	Barium	mg/L	2025-06-03	0.0191	0.103	2	No	NA	No
CAP-3	Barium	mg/L	2025-06-03	0.0618	0.103	2	No	NA	No
CAP-5	Barium	mg/L	2025-06-03	1.23	0.103	2	No	NA	No
CAP-7	Barium	mg/L	2025-06-04	0.0274	0.103	2	No	NA	No
CAP-9	Barium	mg/L	2025-06-04	0.0274	0.103	2	No	NA	No
CAP-3	Beryllium	mg/L	2025-06-03	0.0005	0.005	0.005	No	NA	No
CAP-5	Beryllium	mg/L	2025-06-03	0.0035	0.005	0.005	No	NA	No
CAP-7	Beryllium	mg/L	2025-06-04	0.0005	0.005	0.005	No	NA	No
CAP-1	Cadmium	mg/L	2025-06-03	0.0005	0.005	0.005	No	NA	No
CAP-3	Cadmium	mg/L	2025-06-03	0.0005	0.005	0.005	No	NA	No
CAP-5	Cadmium	mg/L	2025-06-03	0.0005	0.005	0.005	No	NA	No
CAP-7	Cadmium	mg/L	2025-06-04	0.0005	0.005	0.005	No	NA	No
CAP-9	Cadmium	mg/L	2025-06-04	0.0005	0.005	0.005	No	NA	No
CAP-1	Chromium	mg/L	2025-06-03	0.005	0.014	0.1	No	NA	No
CAP-3	Chromium	mg/L	2025-06-03	0.005	0.014	0.1	No	NA	No
CAP-5	Chromium	mg/L	2025-06-03	0.005	0.014	0.1	No	NA	No
CAP-7	Chromium	mg/L	2025-06-04	0.005	0.014	0.1	No	NA	No
CAP-9	Chromium	mg/L	2025-06-04	0.005	0.014	0.1	No	NA	No
CAP-1	Fluoride	mg/L	2025-06-03	1.16	0.3	4	No	NA	No
CAP-3	Fluoride	mg/L	2025-06-03	0.1	0.3	4	No	NA	No
CAP-5	Fluoride	mg/L	2025-06-03	0.54	0.3	4	No	NA	No
CAP-7	Fluoride	mg/L	2025-06-04	0.1	0.3	4	No	NA	No
CAP-9	Fluoride	mg/L	2025-06-04	2.08	0.3	4	No	NA	No
CAP-1	Lead	mg/L	2025-06-03	0.0017	0.011	0.015	No	NA	No
CAP-3	Lead	mg/L	2025-06-03	0.001	0.011	0.015	No	NA	No
CAP-5	Lead	mg/L	2025-06-03	0.0049	0.011	0.015	No	NA	No
CAP-7	Lead	mg/L	2025-06-04	0.001	0.011	0.015	No	NA	No
CAP-9	Lead	mg/L	2025-06-04	0.0146	0.011	0.015	No	NA	No
CAP-3	Lithium	mg/L	2025-06-03	0.0104	0.02	0.04	No	NA	No
CAP-5	Lithium	mg/L	2025-06-03	0.015	0.02	0.04	No	NA	No
CAP-7	Lithium	mg/L	2025-06-04	0.005	0.02	0.04	No	NA	No
CAP-1	Mercury	mg/L	2025-06-03	0.0002	0.001	0.002	No	NA	No
CAP-3	Mercury	mg/L	2025-06-03	0.0002	0.001	0.002	No	NA	No
CAP-5	Mercury	mg/L	2025-06-03	0.0002	0.001	0.002	No	NA	No
CAP-7	Mercury	mg/L	2025-06-04	0.0002	0.001	0.002	No	NA	No
CAP-9	Mercury	mg/L	2025-06-04	0.0002	0.001	0.002	No	NA	No
CAP-1	Molybdenum	mg/L	2025-06-03	0.005	0.02	0.1	No	NA	No
CAP-3	Molybdenum	mg/L	2025-06-03	0.005	0.02	0.1	No	NA	No
CAP-5	Molybdenum	mg/L	2025-06-03	0.005	0.02	0.1	No	NA	No
CAP-7	Molybdenum	mg/L	2025-06-04	0.005	0.02	0.1	No	NA	No
CAP-9	Molybdenum	mg/L	2025-06-04	0.005	0.02	0.1	No	NA	No
CAP-1	Radium-226 & 228	pCi/L	2025-06-03	1.04	16.3	16.3	No	NA	No
CAP-3	Radium-226 & 228	pCi/L	2025-06-03	1.48	16.3	16.3	No	NA	No
CAP-5	Radium-226 & 228	pCi/L	2025-06-03	18.3	16.3	16.3	Yes	15.6	No
CAP-7	Radium-226 & 228	pCi/L	2025-06-04	3.28	16.3	16.3	No	NA	No
CAP-9	Radium-226 & 228	pCi/L	2025-06-04	4.5	16.3	16.3	No	NA	No
CAP-1	Selenium	mg/L	2025-06-03	0.01	0.05	0.05	No	NA	No
CAP-3	Selenium	mg/L	2025-06-03	0.01	0.05	0.05	No	NA	No
CAP-5	Selenium	mg/L	2025-06-03	0.01	0.05	0.05	No	NA	No
CAP-7	Selenium	mg/L	2025-06-04	0.01	0.05	0.05	No	NA	No
CAP-9	Selenium	mg/L	2025-06-04	0.01	0.05	0.05	No	NA	No
CAP-1	Thallium	mg/L	2025-06-03	0.001	0.01	0.01	No	NA	No
CAP-3	Thallium	mg/L	2025-06-03	0.001	0.01	0.01	No	NA	No
CAP-5	Thallium	mg/L	2025-06-03	0.001	0.01	0.01	No	NA	No
CAP-7	Thallium	mg/L	2025-06-04	0.001	0.01	0.01	No	NA	No
CAP-9	Thallium	mg/L	2025-06-04	0.001	0.01	0.01	No	NA	No

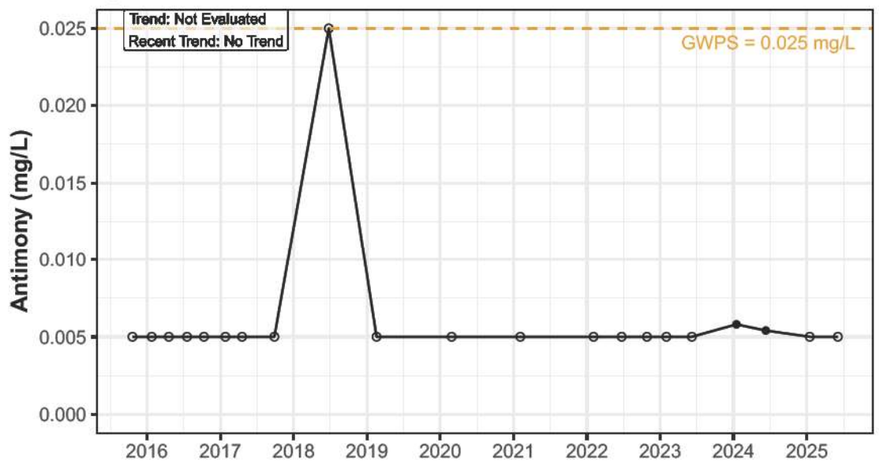
Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

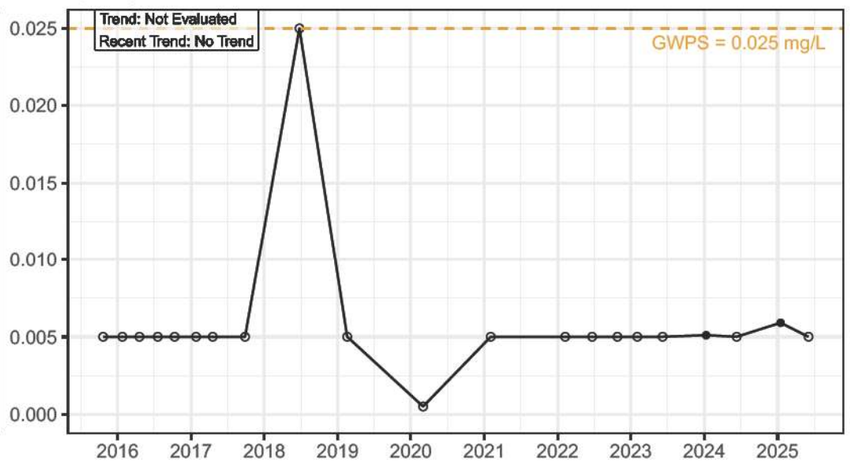
Trend Analysis for Antimony

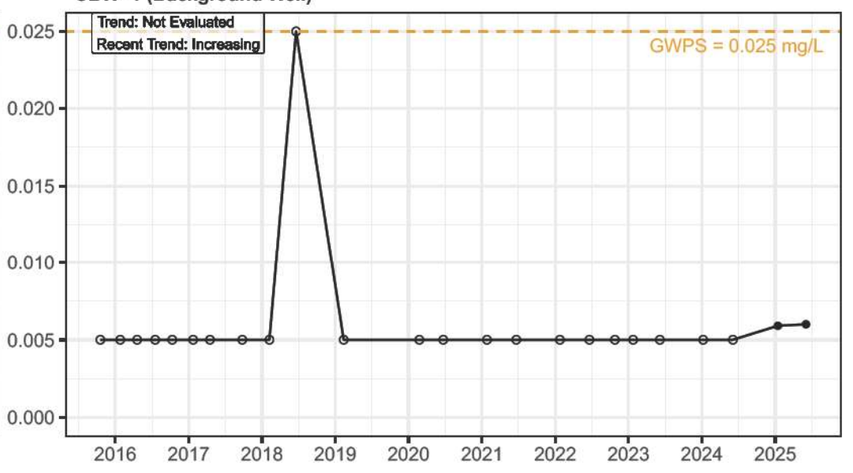


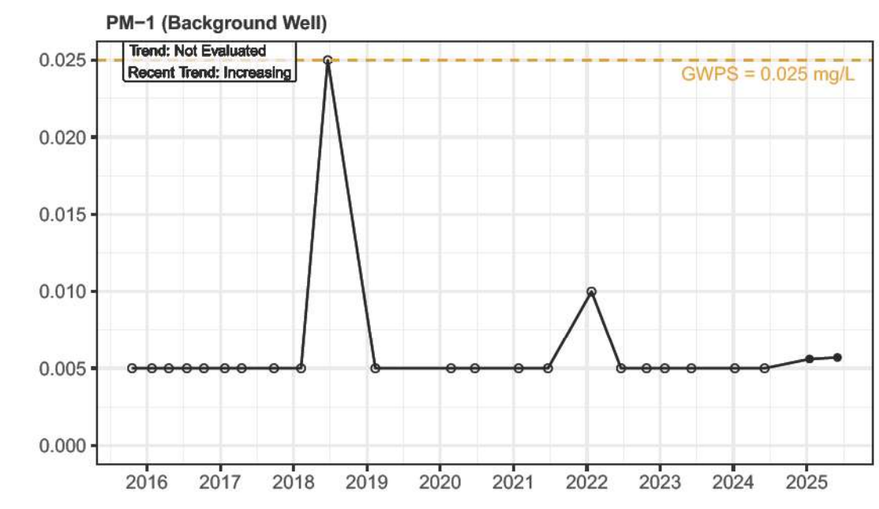


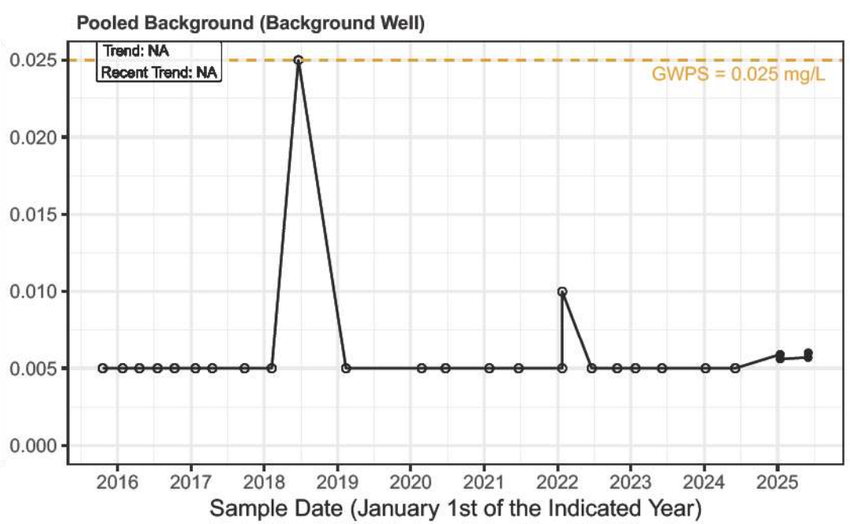












Antimony (mg/L)

Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non−Detect

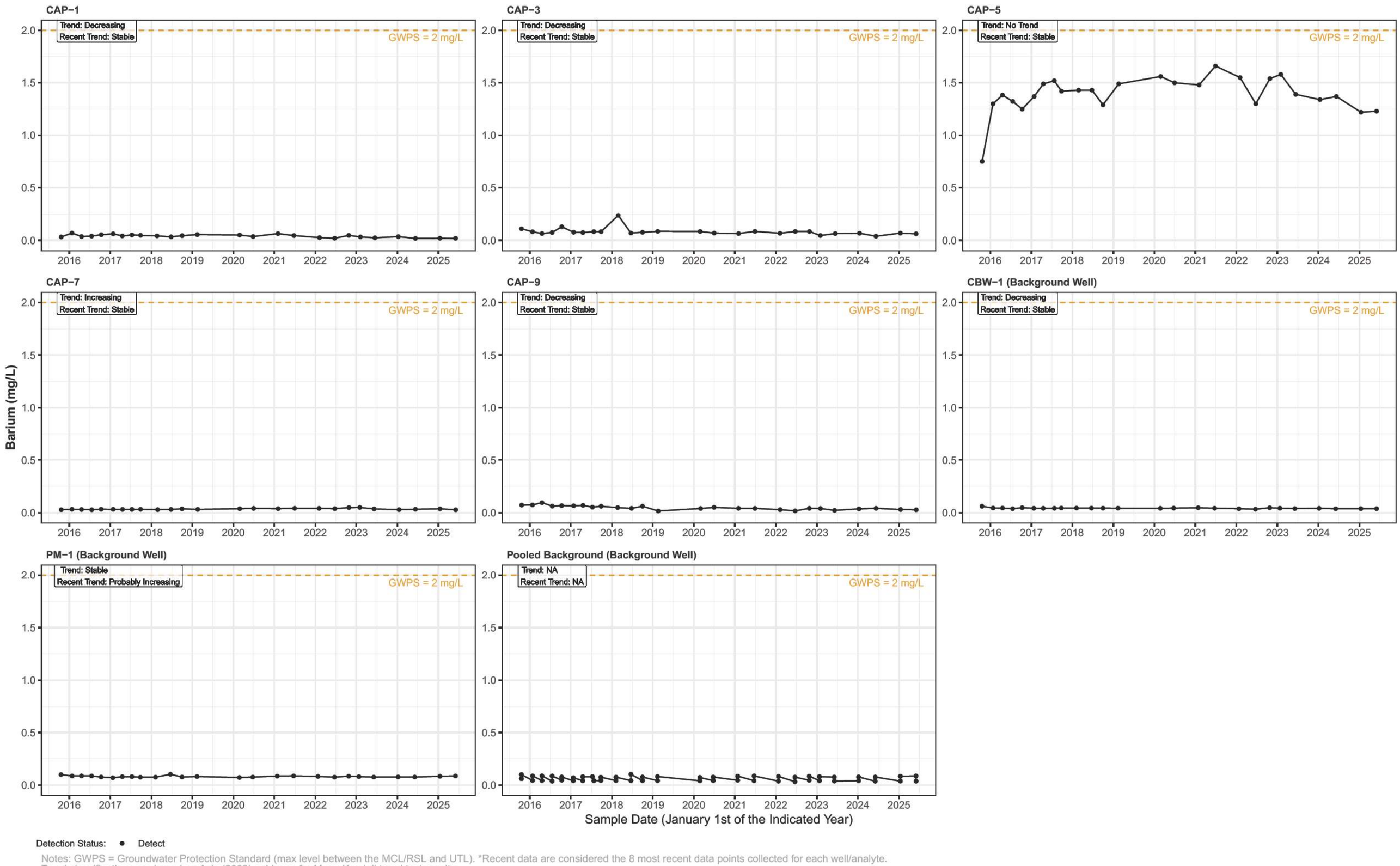
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Arsenic

Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

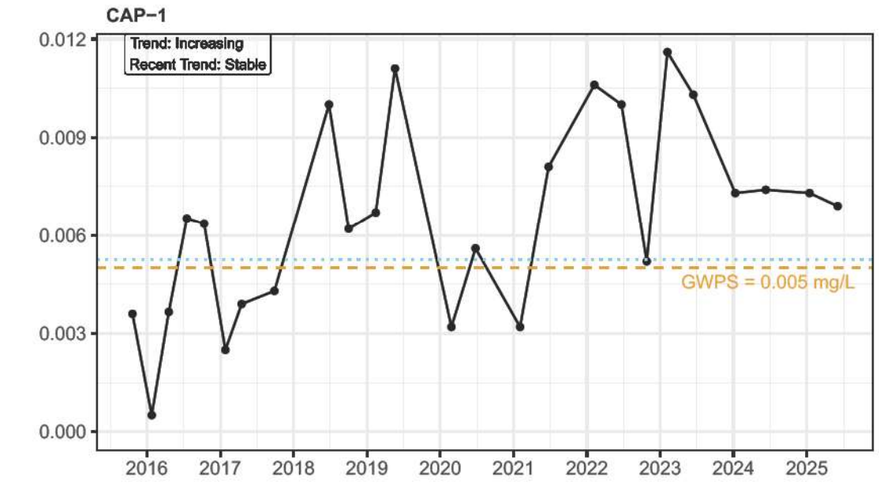
Trend Analysis for Barium

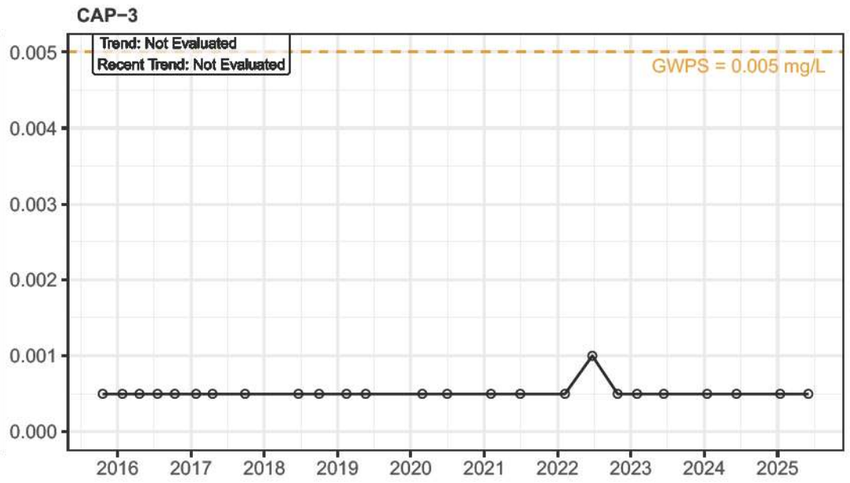


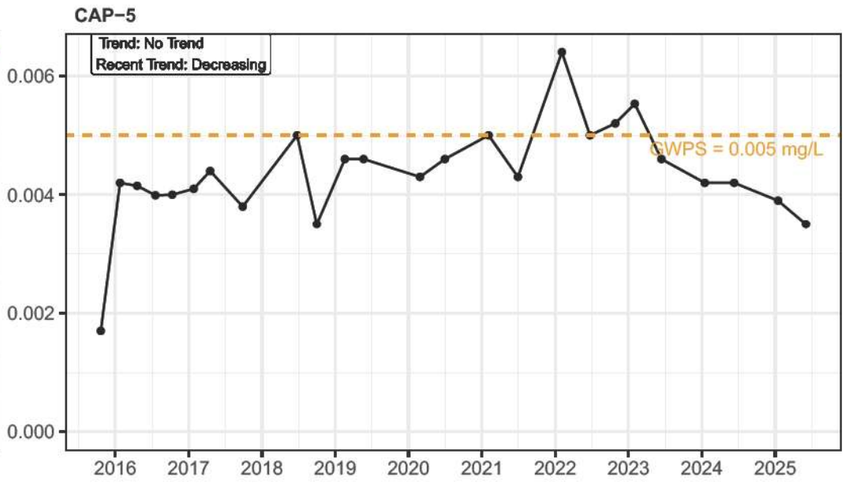
Detection Status: ● Detect

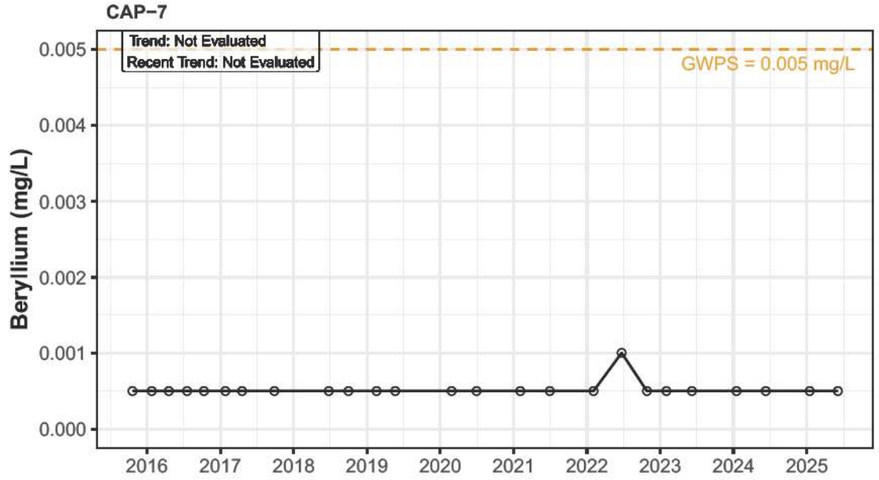
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

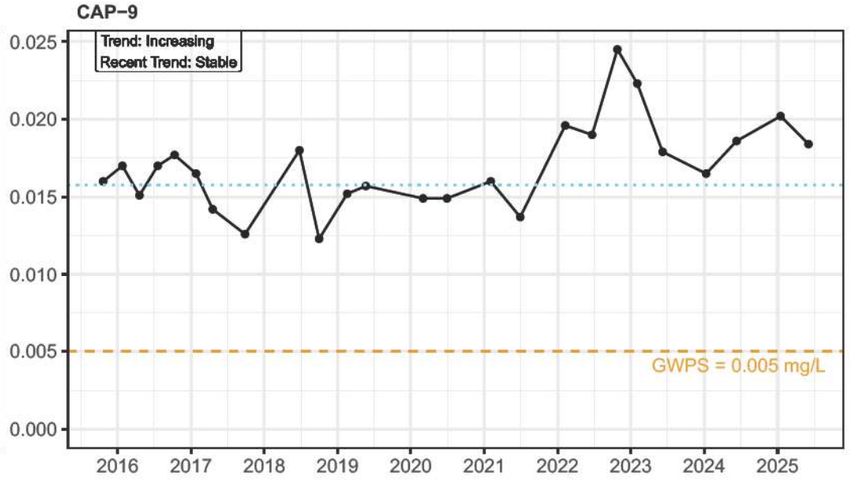
Trend Analysis Plots for Beryllium

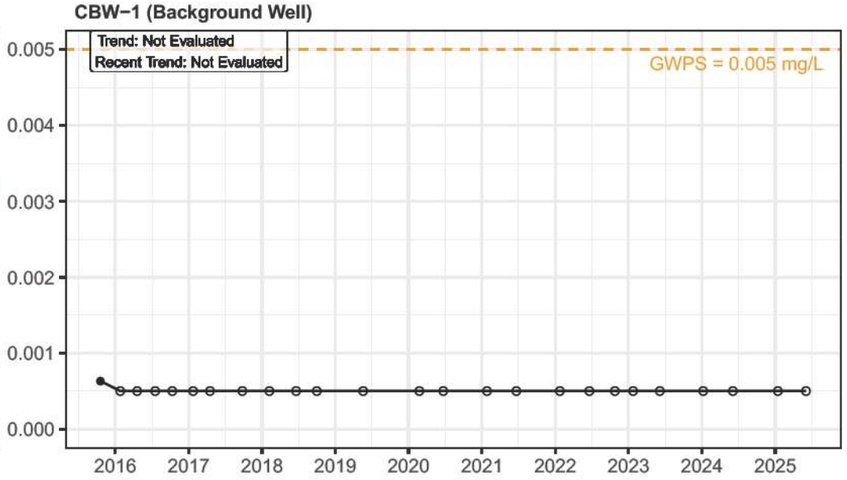


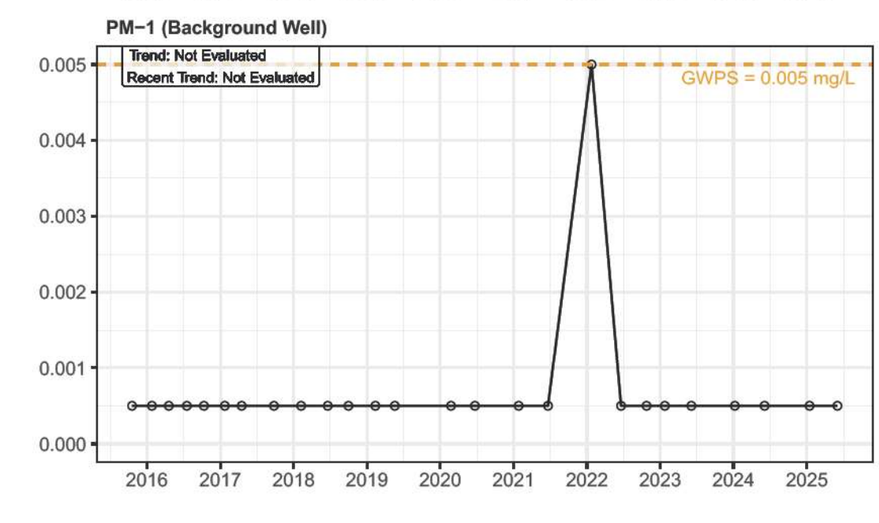


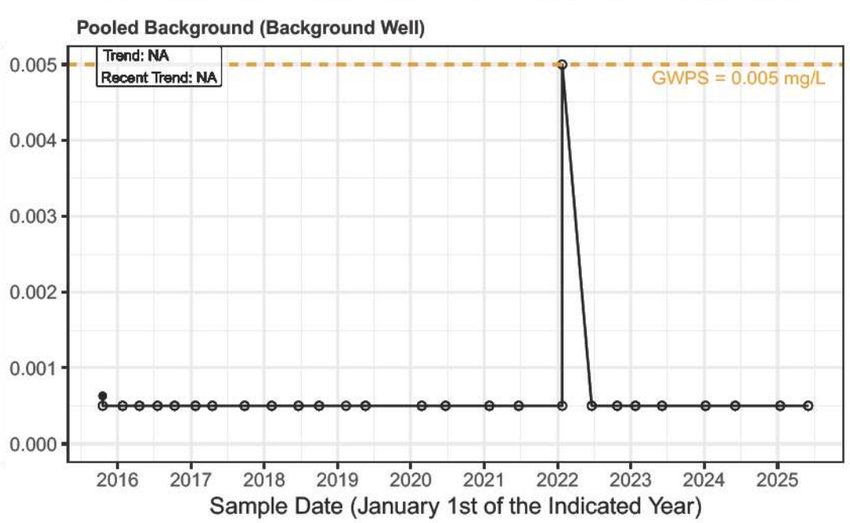












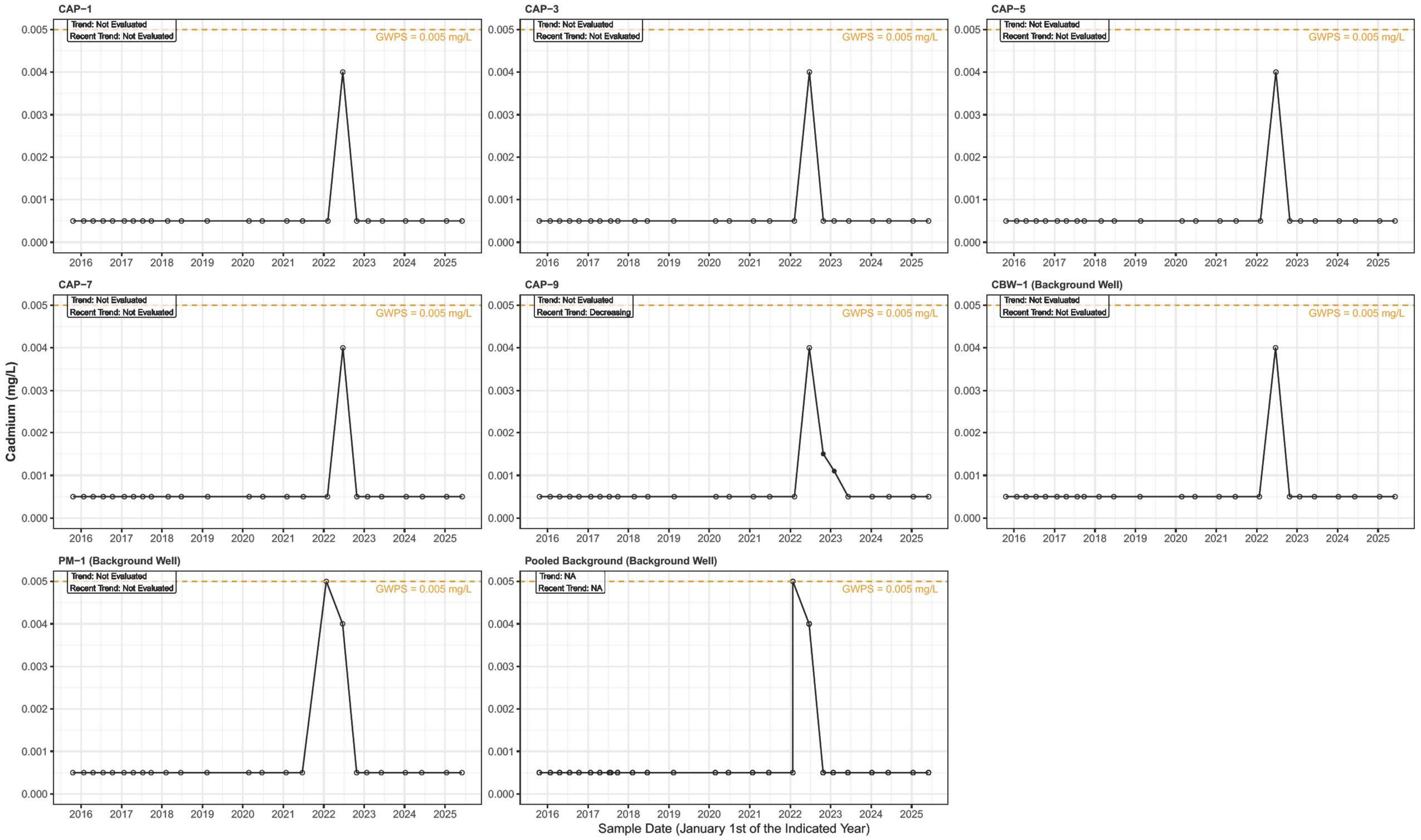
Beryllium (mg/L)

Sample Date (January 1st of the Indicated Year)

GWPS LCL Detection Status: Detect Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

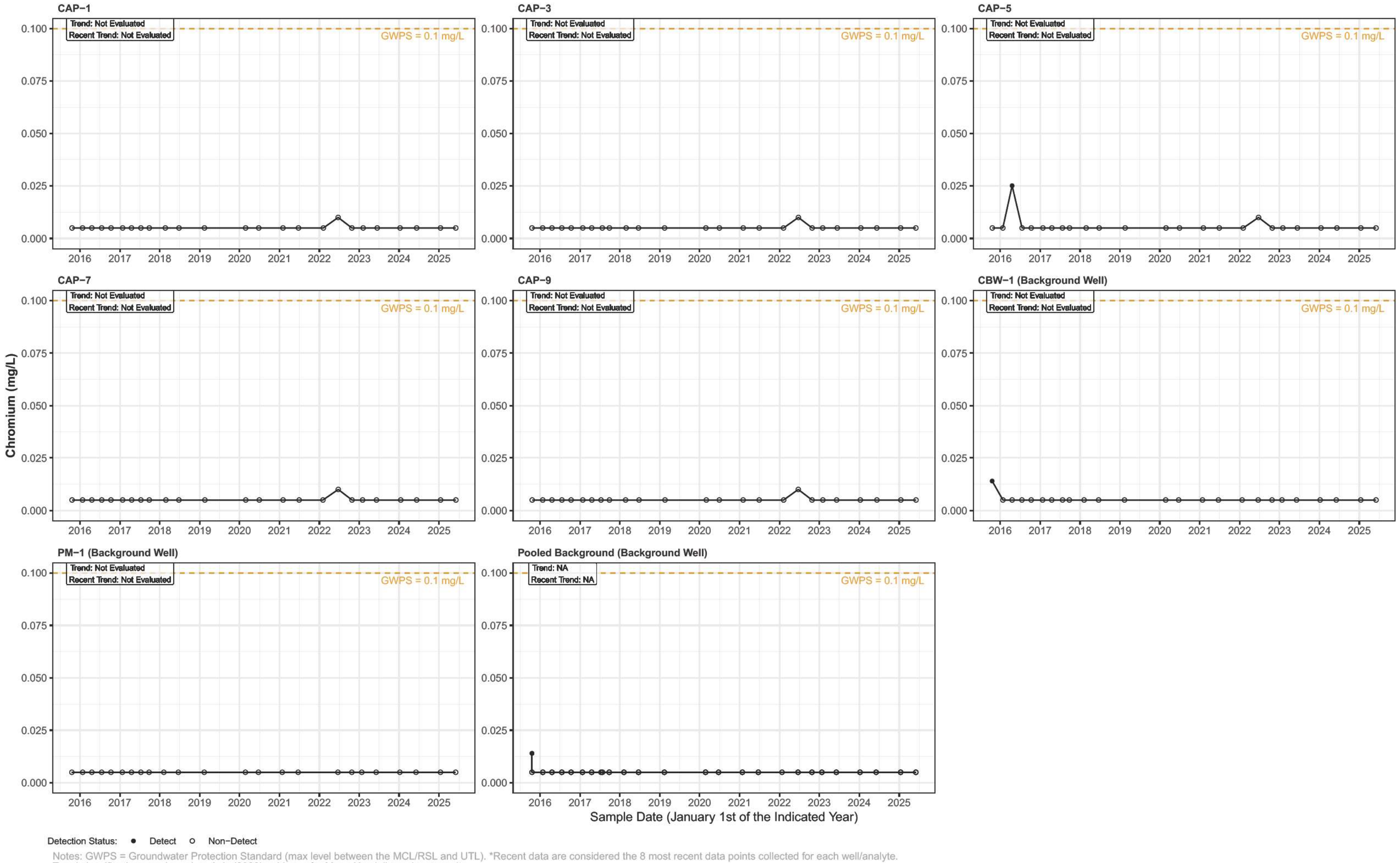
Trend Analysis for Cadmium



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

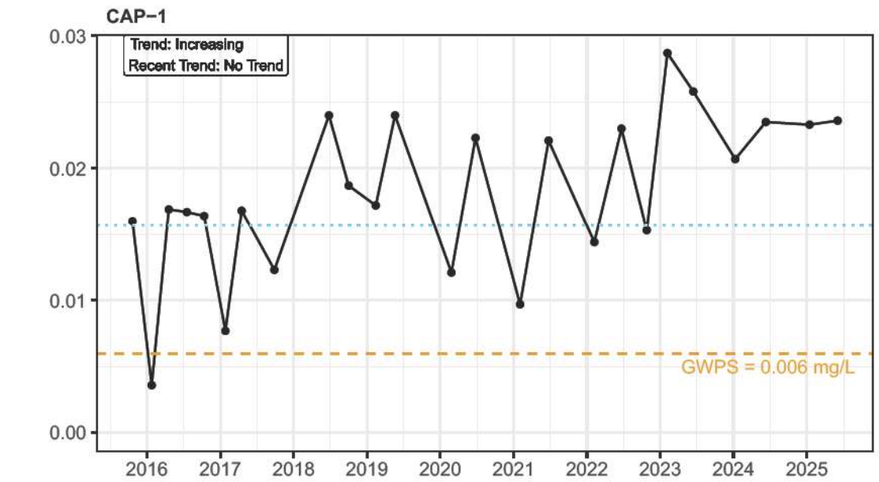
Trend Analysis for Chromium

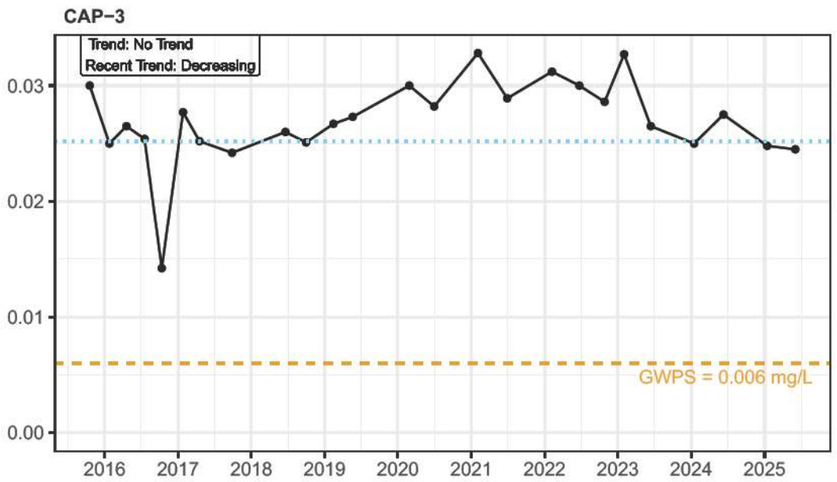


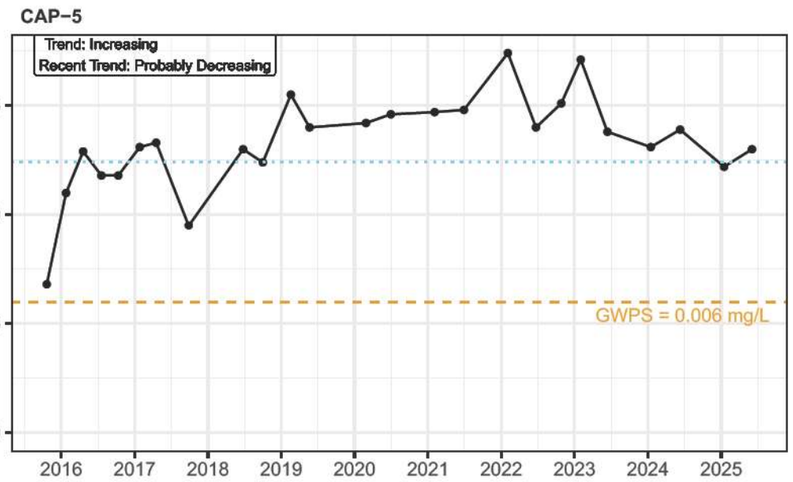
Detection Status: ● Detect ○ Non−Detect

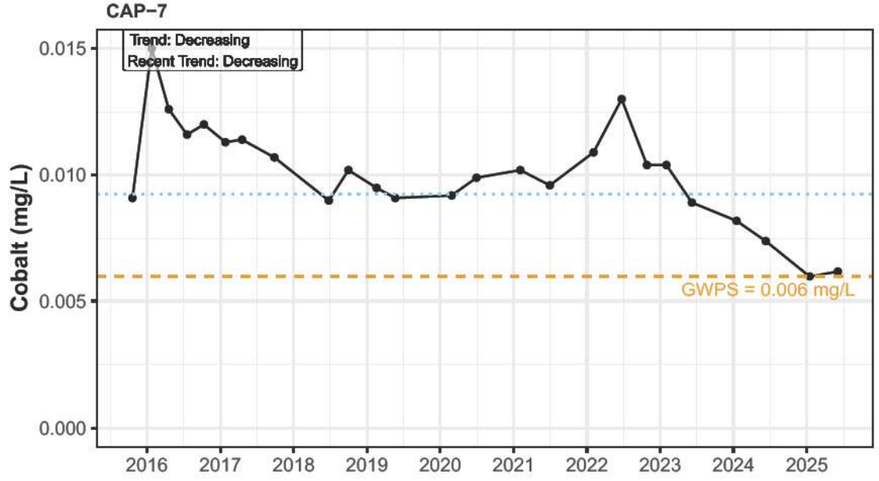
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

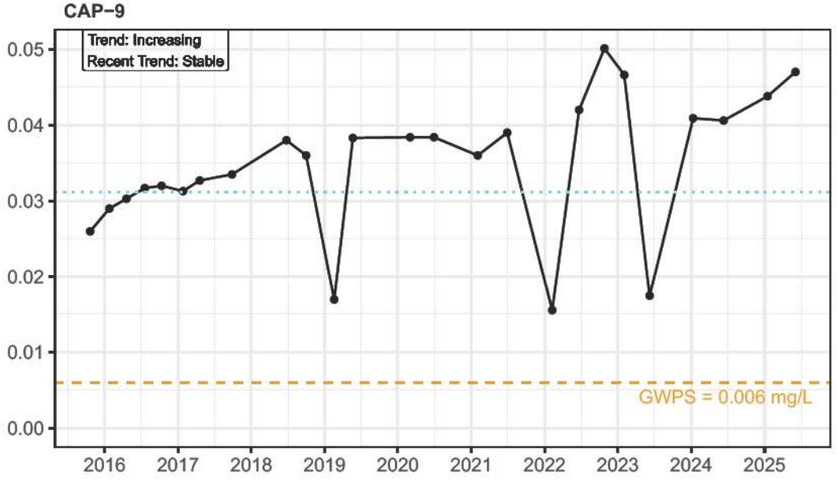
Trend Analysis Plots for Cobalt

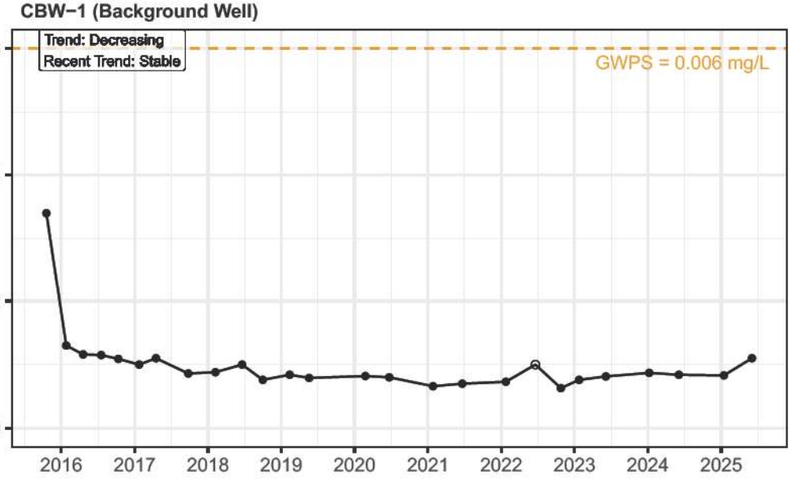


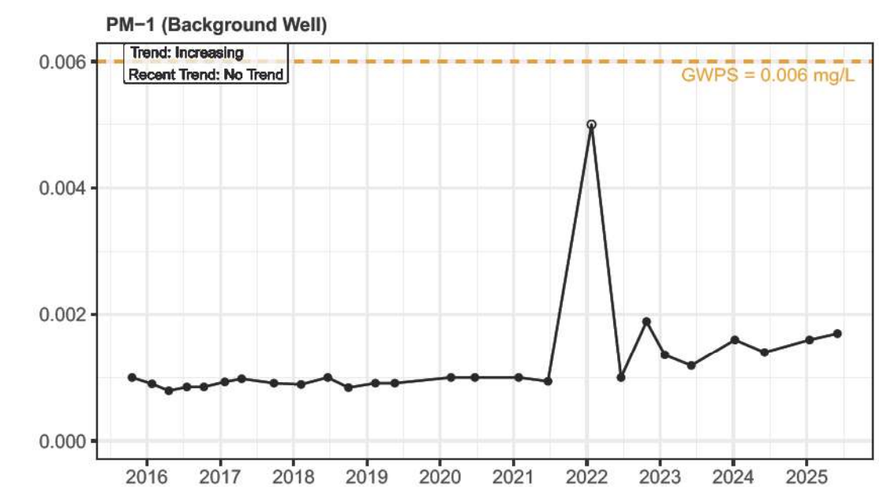


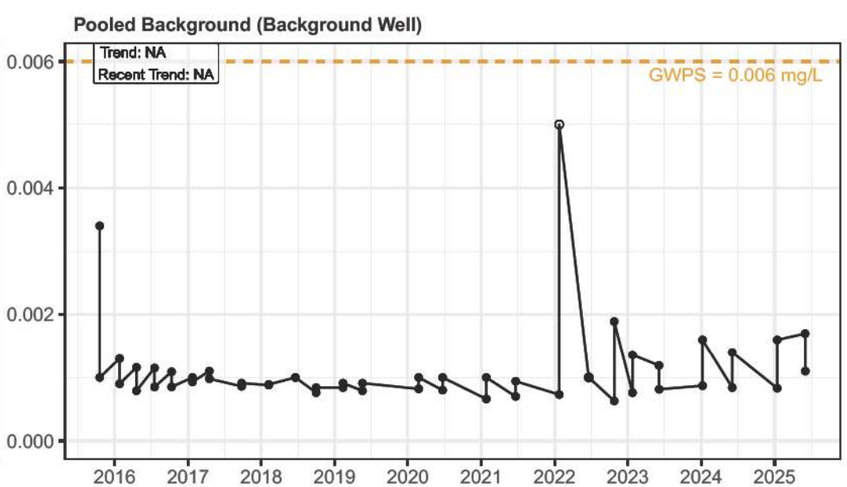








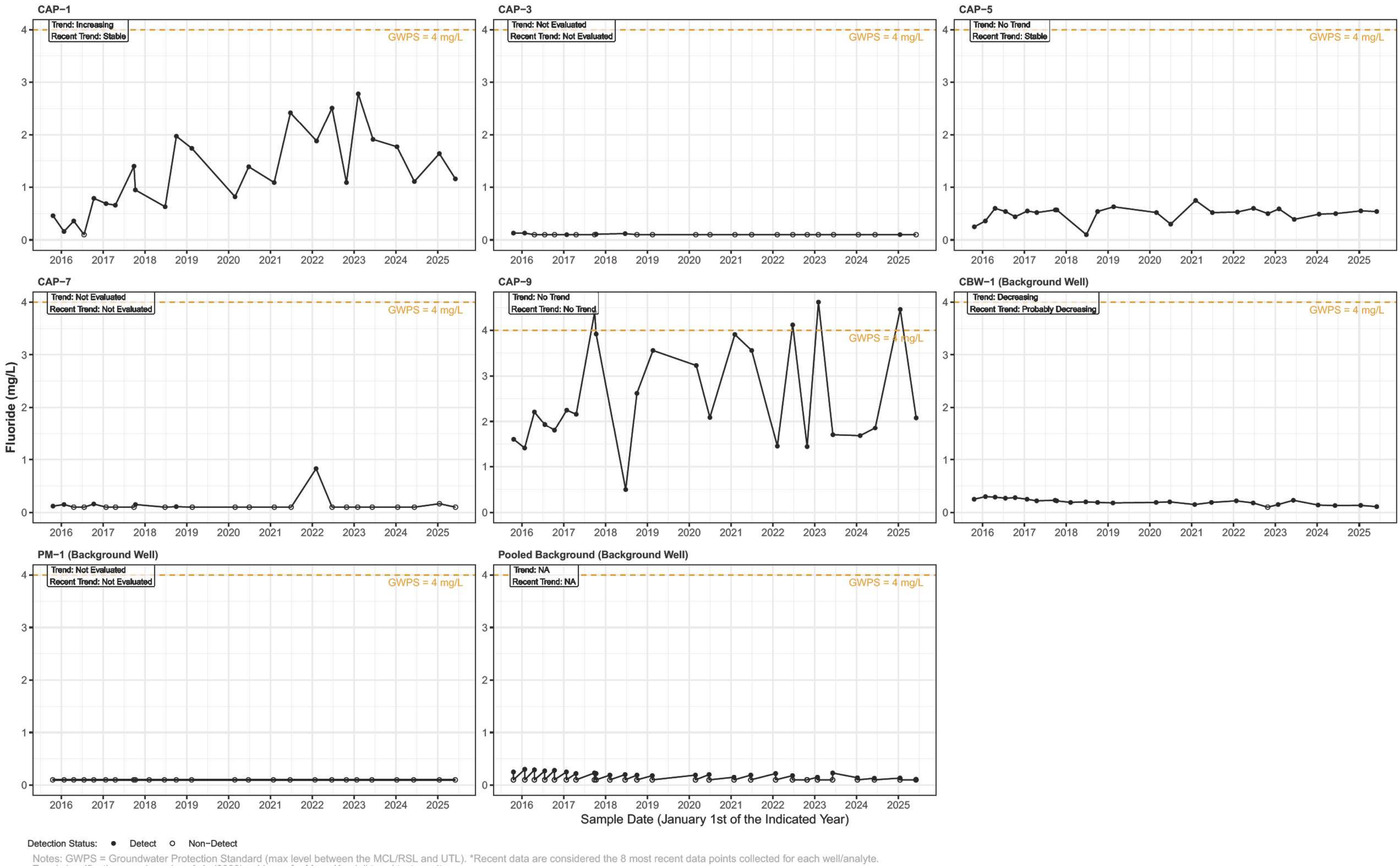




GWPS LCL Detection Status: Detect Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

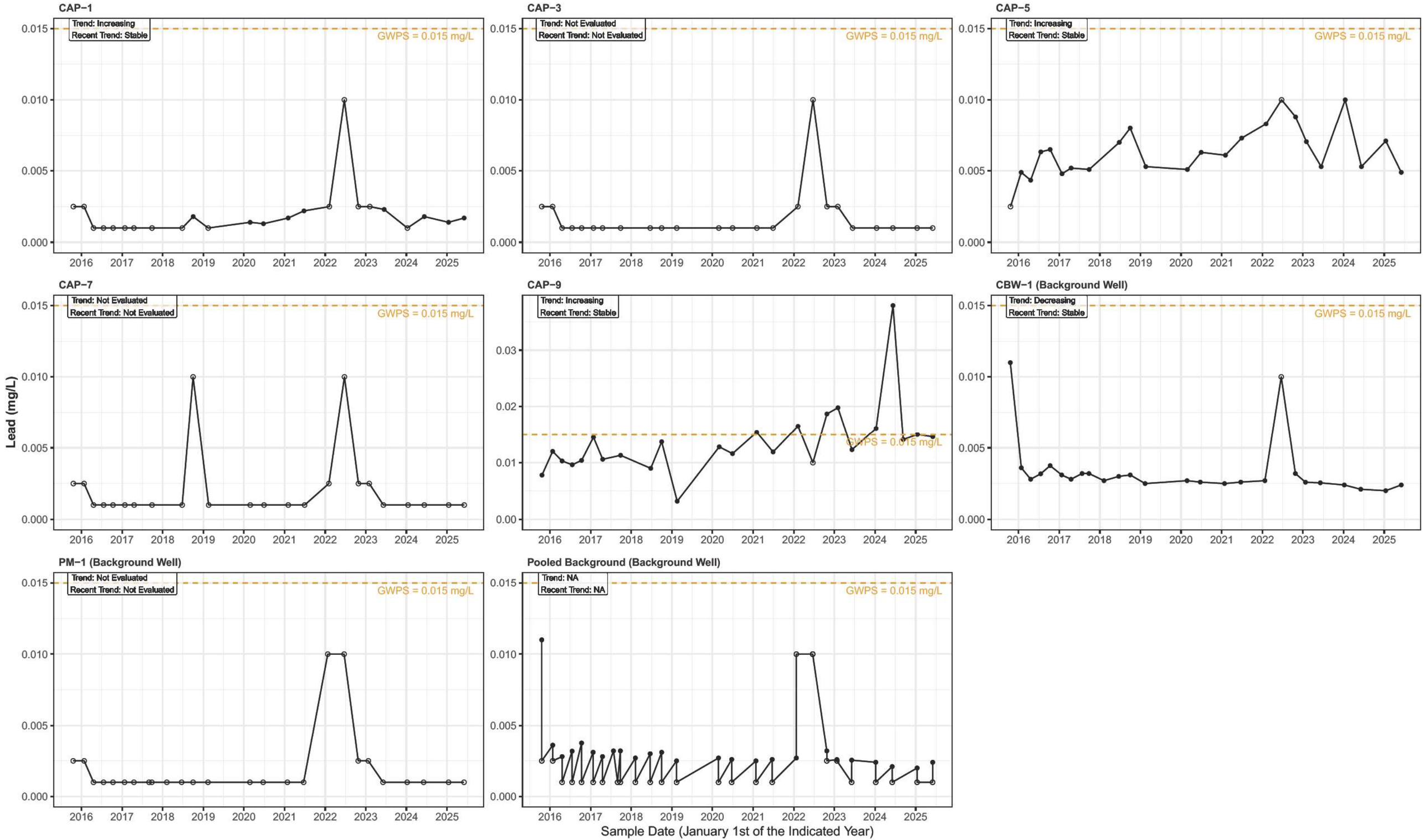
Trend Analysis for Fluoride



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Lead

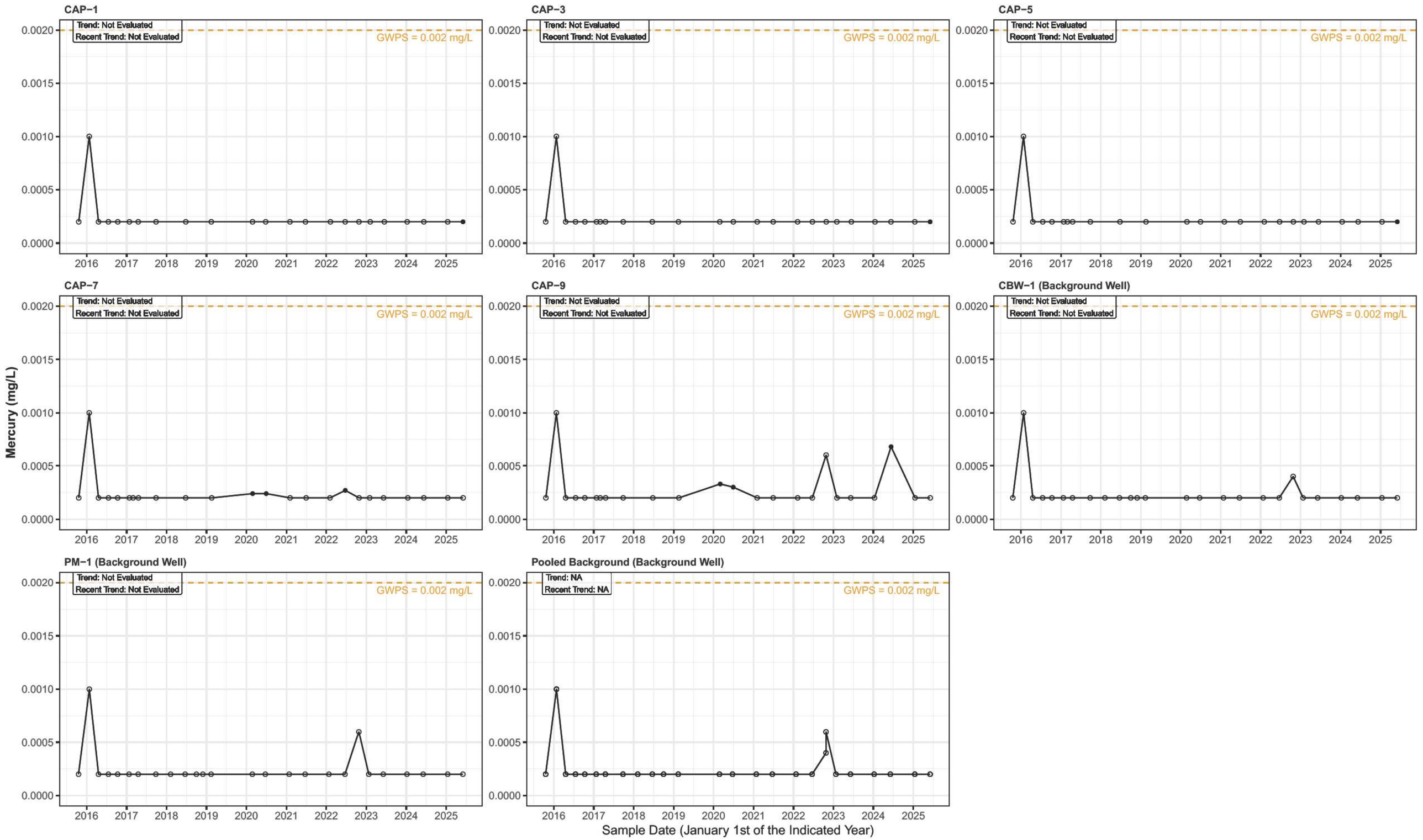


Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis Plots for Lithium

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Mercury



Detection Status: ● Detect ○ Non−Detect

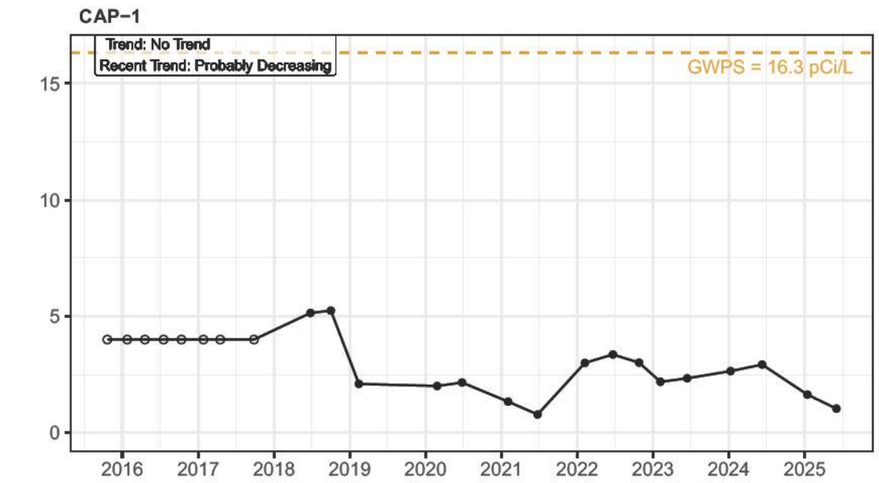
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

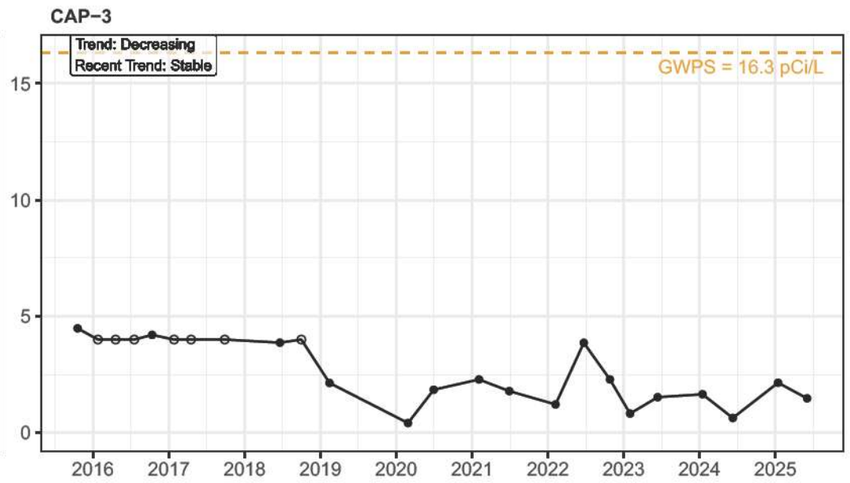
Trend Analysis for Molybdenum

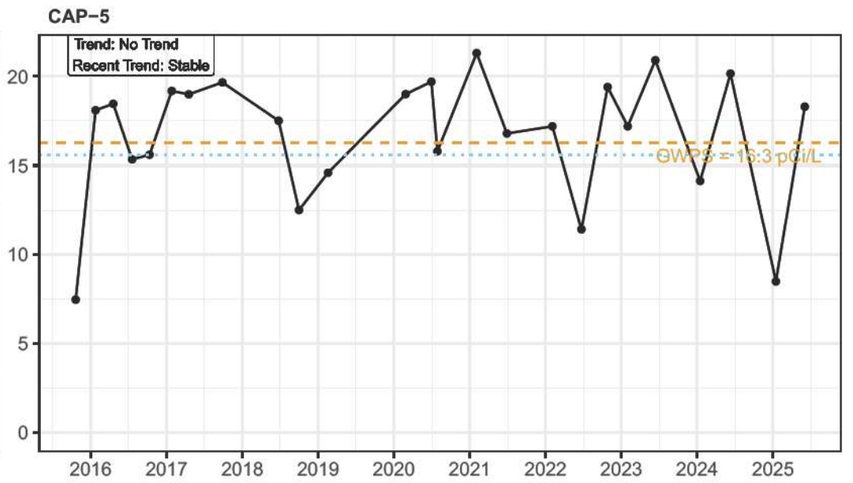
Detection Status: ○ Non−Detect

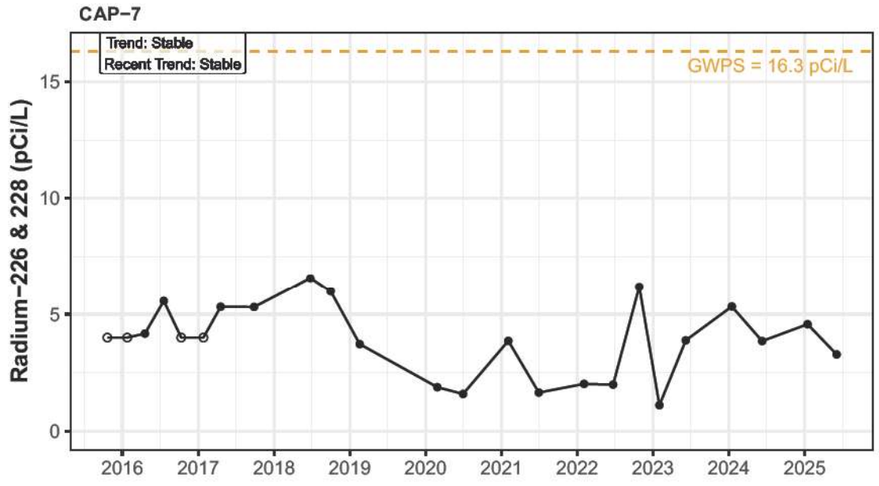
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

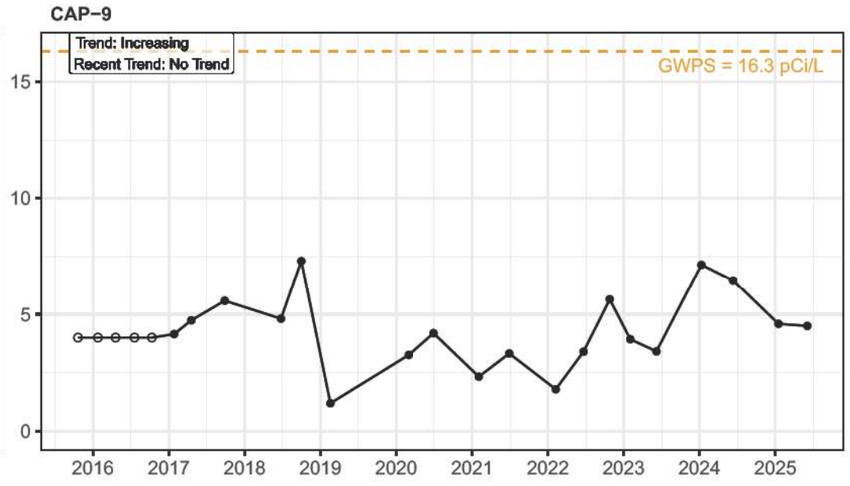
Trend Analysis Plots for Radium−226 & 228

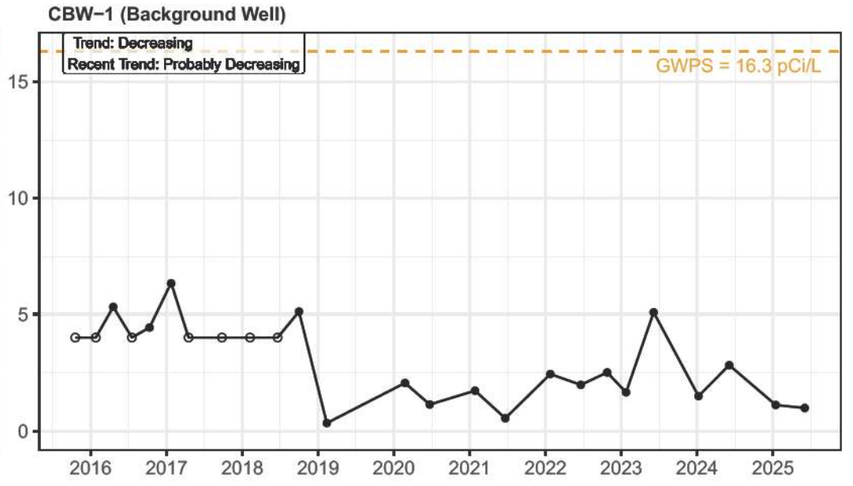


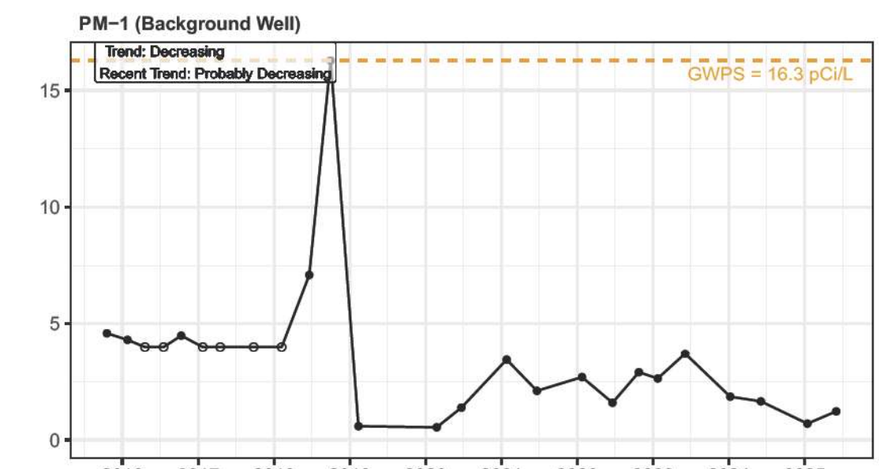


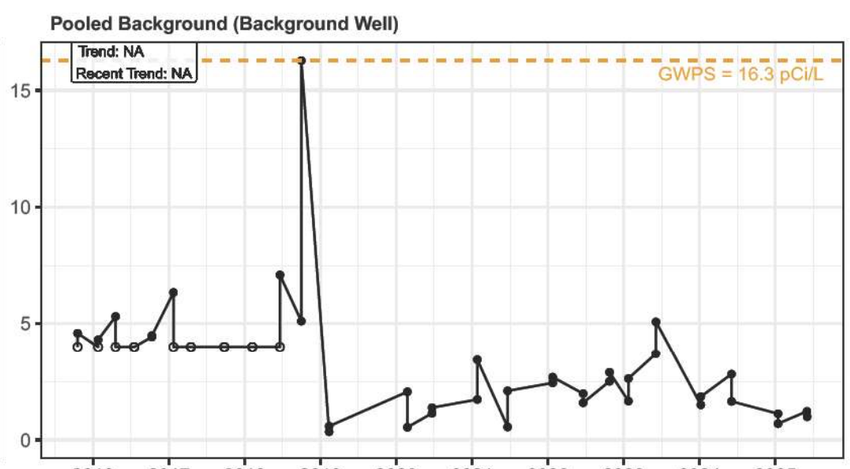












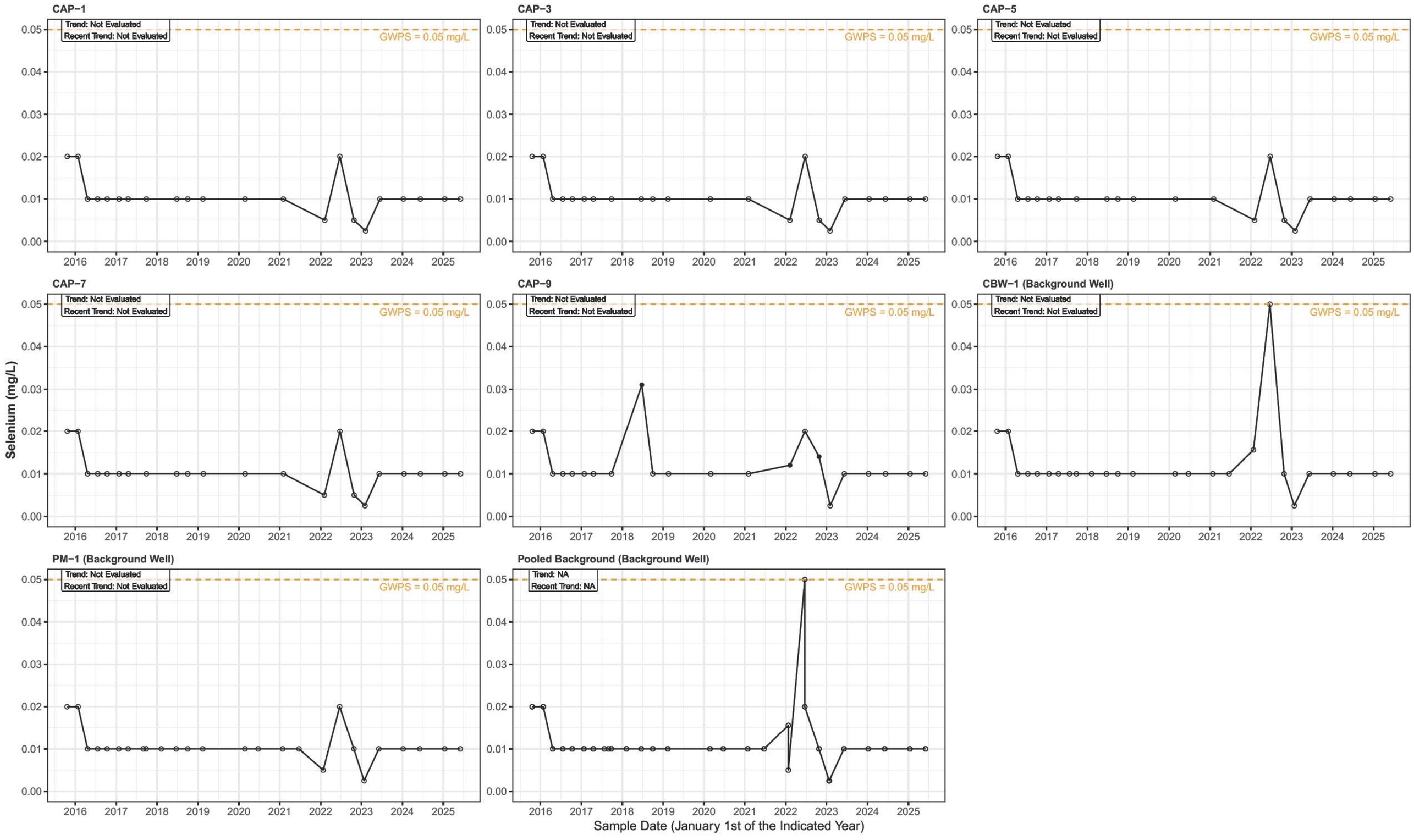
Radium−226 & 228 (pCi/L)

Sample Date (January 1st of the Indicated Year)

GWPS LCL Detection Status: Detect Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.
*Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

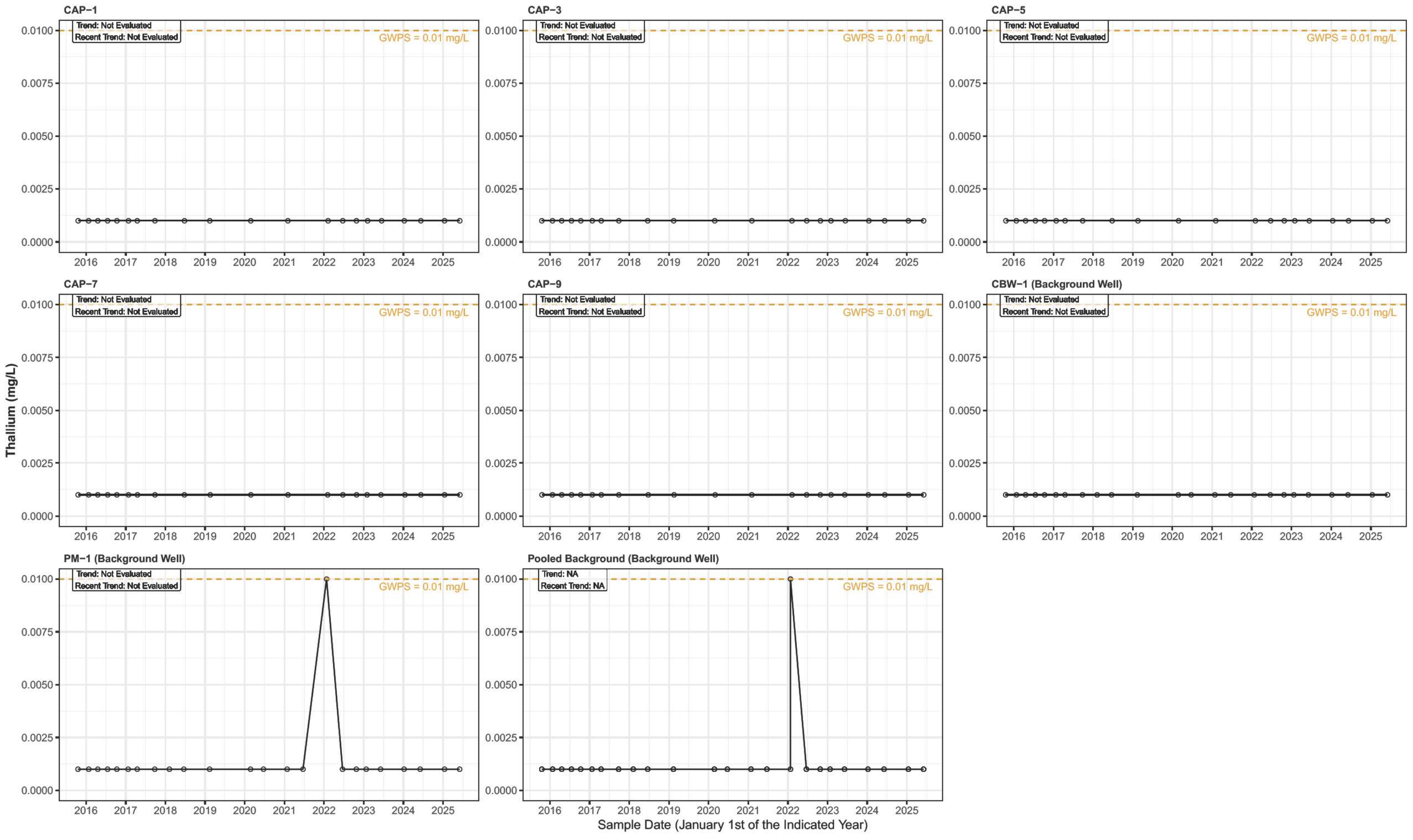
Trend Analysis for Selenium



Detection Status: ● Detect ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Analysis for Thallium



Detection Status: ○ Non−Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). *Recent data are considered the 8 most recent data points collected for each well/analyte.
Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Appendix B – Laboratory Analytical Reports

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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
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	23.2	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	0.83	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
Antimony	5.9	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Boron	21.9	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Total Organic Carbon	1.98	mg/L	01/21/2025	GEL	SM 5310B
Fluoride	0.134	mg/L	01/18/2025	GEL	EPA 300.0
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
Radium 226	0.142	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
Radium 228	0.981	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.12	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
pH	4.68	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: Linda Williams - Manager Analytical Services Validation date: 4/11/25

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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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21151 **Location:** GW Well CAP- 1 **Date:** 01/14/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-1 **Time:** 13:40

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	19.6	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	7.3	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	338	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	23.3	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	1.4	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	6.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	533	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	173	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	1.64	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	168	mg/L	01/17/2025	GEL	EPA 300.0
Sulfate	759	mg/L	01/17/2025	GEL	EPA 300.0
Total Dissolved Solids	1468	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	0.264	pCi/L	02/11/2025	SJLEVY	EPA 903.1 Mod
Radium 228	1.38	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.64	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	4.40	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21153 **Location:** GW Well CAP- 3 **Date:** 01/14/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-3 **Time:** 16:17

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	68.4	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	504	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	24.8	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	5.7	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	4650	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	11.2	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	0.101	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	378	mg/L	01/17/2025	GEL	EPA 300.0
Sulfate	628	mg/L	01/17/2025	GEL	EPA 300.0
Total Dissolved Solids	2185	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	0.365	pCi/L	02/11/2025	SJLEVY	EPA 903.1 Mod
Radium 228	1.78	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.15	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	6.39	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21154 **Location:** GW Well CAP-4 **Date:** 01/15/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-4 **Time:** 09:42

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	106	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	739	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	5.1	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	10700	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	39.5	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.066	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	953	mg/L	01/17/2025	GEL	EPA 300.0
Sulfate	851	mg/L	01/17/2025	GEL	EPA 300.0
Total Dissolved Solids	3028	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	0.433	pCi/L	02/11/2025	SJLEVY	EPA 903.1 Mod
Radium 228	1.29	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.72	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	6.47	SU	01/15/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21155 **Location:** GW Well CAP-5 **Date:** 01/15/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-5 **Time:** 11:08

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	1220	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	3.9	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	126	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	12.2	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	7.1	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	22.6	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	17.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	0.552	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	471	mg/L	01/17/2025	GEL	EPA 300.0
Sulfate	3.73	mg/L	01/18/2025	GEL	EPA 300.0
Total Dissolved Solids	850.0	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	1.20	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
Radium 228	7.28	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	8.48	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	3.86	SU	01/15/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21156 **Location:** GW Well CAP-6 **Date:** 01/15/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-6 **Time:** 12:23

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	245	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	525	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	3600	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	15.2	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.066	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	646	mg/L	01/17/2025	GEL	EPA 300.0
Sulfate	409	mg/L	01/17/2025	GEL	EPA 300.0
Total Dissolved Solids	1945	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	1.18	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
Radium 228	0.472	pCi/L	02/14/2025	SJLEVY	EPA 904.0
Radium 226/228 Combined Calculation	1.65	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	6.68	SU	01/15/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21157 **Location:** GW Well CAP-7 **Date:** 01/15/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-7 **Time:** 13:50

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	36.6	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	699	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	6.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	22700	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.165	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	1300	mg/L	01/18/2025	GEL	EPA 300.0
Sulfate	1060	mg/L	01/18/2025	GEL	EPA 300.0
Total Dissolved Solids	3528	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	0.514	pCi/L	02/11/2025	SJLEVY	EPA 903.1 Mod
Radium 228	4.06	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.57	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	5.73	SU	01/15/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21158 **Location:** GW Well CAP-8 **Date:** 01/15/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-8 **Time:** 14:56

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	48.7	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	949	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	32.3	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	7.8	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	20900	ug/L	02/03/2025	AMSTOCKH	EPA 6010D
Lithium	102	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	0.392	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	1210	mg/L	01/18/2025	GEL	EPA 300.0
Sulfate	1280	mg/L	01/18/2025	GEL	EPA 300.0
Total Dissolved Solids	4192	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	0.669	pCi/L	02/11/2025	SJLEVY	EPA 903.1 Mod
Radium 228	0.517	pCi/L	02/14/2025	SJLEVY	EPA 904.0
Radium 226/228 Combined Calculation	1.19	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	6.48	SU	01/15/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21159 **Location:** GW Well CAP-9 **Date:** 01/16/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-9 **Time:** 09:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	7.2	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Barium	30.2	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Beryllium	20.2	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Calcium	606	mg/L	02/03/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Cobalt	43.8	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Lead	15.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Antimony	5.9	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
Boron	8670	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Lithium	104	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
Fluoride	4.46	mg/L	01/21/2025	GEL	EPA 300.0
Chloride	1090	mg/L	01/24/2025	GEL	EPA 300.0
Sulfate	771	mg/L	01/24/2025	GEL	EPA 300.0
Total Dissolved Solids	2962	mg/L	01/17/2025	SKJACOBS	SM 2540C
Radium 226	0.870	pCi/L	02/13/2025	GEL	EPA 903.1 Mod
Radium 228	3.72	pCi/L	02/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.59	pCi/L	03/04/2025	SJL	EPA 903.1 Mod
pH	3.50	SU	01/16/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21160 **Location:** GW Well CAP-9 **Date:** 01/16/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-9 DUP **Time:** 09:59

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	7.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Barium	30.1	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Beryllium	19.7	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Calcium	581	mg/L	02/03/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Cobalt	43.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Lead	14.7	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Antimony	6.0	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
Boron	9210	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Lithium	103	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	4.81	mg/L	01/21/2025	GEL	EPA 300.0
Chloride	1080	mg/L	01/24/2025	GEL	EPA 300.0
Sulfate	734	mg/L	01/24/2025	GEL	EPA 300.0
Total Dissolved Solids	3015	mg/L	01/17/2025	SKJACOBS	SM 2540C
Radium 226	0.845	pCi/L	02/13/2025	GEL	EPA 903.1 Mod
Radium 228	4.36	pCi/L	02/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.21	pCi/L	03/04/2025	SJL	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21161 **Location:** GW Well CAP-10 **Date:** 01/15/2025 **Sample Collector:** MDG/DCA

Loc. Code CAP-10 **Time:** 16:14

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Barium	86.6	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Calcium	81.0	mg/L	01/30/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Antimony	5.5	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/07/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	01/30/2025	SKJACOBS	EPA 6020B
Boron	44.2	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Lithium	5.70	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Molybdenum	<5.0	ug/L	01/28/2025	AMSTOCKH	EPA 6010D
Mercury	<0.2	ug/L	01/31/2025	EUROFINS SAV	EPA 7470
Fluoride	0.111	mg/L	01/18/2025	GEL	EPA 300.0
Chloride	23.7	mg/L	01/18/2025	GEL	EPA 300.0
Sulfate	5.20	mg/L	01/18/2025	GEL	EPA 300.0
Total Dissolved Solids	275.0	mg/L	01/16/2025	SKJACOBS	SM 2540C
Radium 226	1.23	pCi/L	02/11/2025	GEL	EPA 903.1 Mod
Radium 228	1.07	pCi/L	02/14/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.30	pCi/L	03/04/2025	SJLEVY	EPA 903.1 Mod
pH	7.20	SU	01/15/2025	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: Linda Williams - Manager Analytical Services Validation date: 4/11/25

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34896 **Location:** GW Well CCMAP-1 **Date:** 06/16/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-1 **Time:** 09:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Barium	64.2	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Calcium	60.4	mg/L	06/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Cobalt	0.93	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Boron	11.2	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Lithium	5.37	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/24/2025	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	5.98	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	<2.00	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	187.5	mg/L	06/17/2025	JRLOTITO	SM 2540C
Radium 226	0.115	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.433	pCi/L	07/09/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.548	pCi/L	07/22/2025	SJLEVY	EPA 903.1 Mod
pH	6.93	SU	06/16/2025	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: 7/28/25

Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34897 **Location:** GW Well CCMAP-2 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-2 **Time:** 14:14

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	15.3	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	7.1	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	13.1	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	06/16/2025	RWMIMS	EPA 300.0
Chloride	5.64	mg/L	06/16/2025	RWMIMS	EPA 300.0
Sulfate	<2.00	mg/L	06/16/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	50.00	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.443	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.113	pCi/L	07/03/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.556	pCi/L	07/03/2025	SJLEVY	EPA 903.1 Mod
pH	5.34	SU	06/12/2025	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: 7/28/25

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34898 **Location:** GW Well CCMAP-3 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-3 **Time:** 11:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	51.3	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	978	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	1.2	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	20700	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	50.1	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	06/16/2025	RWMIMS	EPA 300.0
Chloride	1270	mg/L	06/16/2025	RWMIMS	EPA 300.0
Sulfate	1400	mg/L	06/16/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	4975	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.537	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.206	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.743	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.05	SU	06/12/2025	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: 7/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34899 **Location:** GW Well CCMAP-4 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-4 **Time:** 15:03

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	192	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	78.1	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	7.2	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	21.4	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	41.2	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	2.69	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	305.0	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	0.188	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.839	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.03	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.14	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34900 **Location:** GW Well CCMAP-4 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-4 DUP **Time:** 15:08

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	195	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	79.0	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	7.2	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	20.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	0.11	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	41.0	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	2.79	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	295.0	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	0.190	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.00	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.90	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34901 **Location:** GW Well CCMAP-5 **Date:** 06/11/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-5 **Time:** 16:20

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	214	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	130	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	6.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	15.3	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	12.8	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	<0.10	mg/L	06/23/2025	RWMIMS	EPA 300.0
Chloride	22.6	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	15.7	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	797.5	mg/L	06/12/2025	JRLOTITO	SM 2540C
Radium 226	0.499	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.723	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.22	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.49	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34902 **Location:** GW Well CCMAP-6 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-6 **Time:** 10:03

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	39.6	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	3.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	15.6	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	28.4	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	14.8	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	0.26	mg/L	06/16/2025	RWMIMS	EPA 300.0
Chloride	<2.00	mg/L	06/16/2025	RWMIMS	EPA 300.0
Sulfate	54.5	mg/L	06/16/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	110.0	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.781	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.211	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.992	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.18	SU	06/12/2025	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34903 **Location:** GW Well CCMAP-7 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-7 **Time:** 12:11

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	42.7	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	16.5	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	7.2	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	10.3	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	9.03	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	<2.0	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	95.00	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.308	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.352	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.660	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.07	SU	06/12/2025	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34904 **Location:** GW Well CCMAP-8 **Date:** 06/16/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-8 **Time:** 12:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Barium	20.1	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Calcium	1.4	mg/L	06/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Cobalt	7.9	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Antimony	8.7	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Boron	10.9	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Lithium	5.66	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/24/2025	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	5.12	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	<2.0	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	45.00	mg/L	06/17/2025	JRLOTITO	SM 2540C
Radium 226	1.35	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.577	pCi/L	07/09/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.93	pCi/L	07/22/2025	SJLEVY	EPA 903.1 Mod
pH	4.95	SU	06/16/2025	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34905 **Location:** GW Well CCMAP-9 **Date:** 06/16/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-9 **Time:** 14:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Barium	91.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Calcium	4.6	mg/L	06/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Cobalt	12.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Antimony	9.9	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Boron	17.1	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/24/2025	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	12.7	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	2.87	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	50.00	mg/L	06/17/2025	JRLOTITO	SM 2540C
Radium 226	0.982	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.638	pCi/L	07/09/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.62	pCi/L	07/22/2025	SJLEVY	EPA 903.1 Mod
pH	4.51	SU	06/16/2025	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34906 **Location:** GW Well CCMAP-10 **Date:** 06/16/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-10 **Time:** 13:29

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Barium	32.6	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Calcium	2.2	mg/L	06/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Cobalt	9.3	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Antimony	13.1	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Boron	<10.0	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Lithium	5.59	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/24/2025	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	5.62	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	<2.0	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	52.50	mg/L	06/17/2025	JRLOTITO	SM 2540C
Radium 226	0.308	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.793	pCi/L	07/09/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.10	pCi/L	07/22/2025	SJLEVY	EPA 903.1 Mod
pH	4.79	SU	06/16/2025	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: 7/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34907 **Location:** GW Well CCMAP-11 **Date:** 06/16/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-11 **Time:** 11:17

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Barium	20.3	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Calcium	4.4	mg/L	06/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Cobalt	2.2	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Antimony	12.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/25/2025	SKJACOBS	EPA 6020B
Boron	12.0	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	06/24/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/24/2025	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	5.55	mg/L	06/23/2025	RWMIMS	EPA 300.0
Sulfate	<2.0	mg/L	06/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	50.00	mg/L	06/17/2025	JRLOTITO	SM 2540C
Radium 226	0.942	pCi/L	07/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.09	pCi/L	07/09/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.03	pCi/L	07/22/2025	SJLEVY	EPA 903.1 Mod
pH	6.94	SU	06/16/2025	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: 7/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34908 **Location:** GW Well CCMAP-12 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-12 **Time:** 15:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	86.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	26.0	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	18.3	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	15.5	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	06/16/2025	RWMIMS	EPA 300.0
Chloride	10.5	mg/L	06/16/2025	RWMIMS	EPA 300.0
Sulfate	<2.00	mg/L	06/16/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	170.0	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.449	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.665	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.11	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.90	SU	06/12/2025	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: 7/28/25

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34909 **Location:** GW Well CCMAP-13 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-13 **Time:** 16:16

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	47.6	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	668	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	9.3	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	10800	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	31.8	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	0.12	mg/L	06/16/2025	RWMIMS	EPA 300.0
Chloride	808	mg/L	06/16/2025	RWMIMS	EPA 300.0
Sulfate	778	mg/L	06/16/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	3538	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.903	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.902	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.81	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.48	SU	06/12/2025	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: 7/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34910 **Location:** GW Well CCMAP-14 **Date:** 06/12/2025 **Sample Collector:** AGP/EA

Loc. Code CCMAP-14 **Time:** 13:08

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Barium	74.9	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Calcium	38.8	mg/L	06/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Cobalt	12.0	ug/L	06/18/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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	30.0	ug/L	06/18/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	06/16/2025	RWMIMS	EPA 300.0
Chloride	12.9	mg/L	06/16/2025	RWMIMS	EPA 300.0
Sulfate	<2.00	mg/L	06/16/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	155.0	mg/L	06/13/2025	GJKOCENI	SM 2540C
Radium 226	0.340	pCi/L	07/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.446	pCi/L	07/08/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.786	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.35	SU	06/12/2025	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: 7/28/25

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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
Beryllium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Calcium	21.7	mg/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
Antimony	6.0	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	13.7	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Boron	21.2	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	1.23	mg/L	06/13/2025	GEL	SM 5310B
Fluoride	0.11	mg/L	06/04/2025	AMSTOCKH	EPA 300.0
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
Radium 226	0.401	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	0.590	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.991	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
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

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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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34880 **Location:** GW Well CAP- 1 **Date:** 06/03/2025 **Sample Collector:** AGP/EA

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

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Barium	19.1	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Beryllium	6.9	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Calcium	339	mg/L	06/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cobalt	23.6	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Lead	1.7	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Antimony	5.9	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
Boron	506	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Lithium	184	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Mercury	0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	1.16	mg/L	06/11/2025	RWMIMS	EPA 300.0
Chloride	186	mg/L	06/11/2025	RWMIMS	EPA 300.0
Sulfate	813	mg/L	06/11/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1510	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	0.0289	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	1.01	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.04	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	4.58	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34882 **Location:** GW Well CAP- 3 **Date:** 06/03/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-3 **Time:** 13:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Barium	61.8	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Calcium	482	mg/L	06/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cobalt	24.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Antimony	5.9	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
Boron	4000	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Lithium	10.4	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Mercury	0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	06/11/2025	RWMIMS	EPA 300.0
Chloride	427	mg/L	06/11/2025	RWMIMS	EPA 300.0
Sulfate	609	mg/L	06/11/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	3235	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	0.425	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	1.05	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.48	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.46	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34883 **Location:** GW Well CAP-4 **Date:** 06/03/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-4 **Time:** 14:50

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Barium	110	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Calcium	774	mg/L	06/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cobalt	0.56	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	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
Boron	11100	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Lithium	40.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Mercury	0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	06/11/2025	RWMIMS	EPA 300.0
Chloride	989	mg/L	06/11/2025	RWMIMS	EPA 300.0
Sulfate	892	mg/L	06/11/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	4260	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	0.419	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	0.881	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.30	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.67	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34884 **Location:** GW Well CAP-5 **Date:** 06/03/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-5 **Time:** 16:16

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Barium	1230	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Beryllium	3.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Calcium	123	mg/L	06/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Cobalt	13.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Lead	4.9	ug/L	06/10/2025	SKJACOBS	EPA 6020B
Antimony	5.2	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
Boron	20.7	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Lithium	15.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/11/2025	SKJACOBS	EPA 6010D
Mercury	0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	0.54	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	533	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	3.04	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	1275	mg/L	06/06/2025	GJKOCENI	SM 2540C
Radium 226	5.78	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	12.5	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	18.3	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	3.84	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34885 **Location:** GW Well CAP-6 **Date:** 06/04/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-6 **Time:** 09:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Barium	245	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Calcium	414	mg/L	06/26/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Boron	3100	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	10.9	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	546	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	283	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	2112	mg/L	06/05/2025	GJKOCENI	SM 2540C
Radium 226	0.910	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	1.17	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.08	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.77	SU	06/04/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34886 **Location:** GW Well CAP-7 **Date:** 06/04/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-7 **Time:** 10:38

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Barium	27.4	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Calcium	551	mg/L	06/26/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Cobalt	6.2	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Boron	21500	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	<0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	1090	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	928	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	3542	mg/L	06/05/2025	GJKOCENI	SM 2540C
Radium 226	0.891	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	2.39	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.28	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	5.80	SU	06/04/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34887 **Location:** GW Well CAP-8 **Date:** 06/04/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-8 **Time:** 11:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Barium	48.2	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Calcium	974	mg/L	06/26/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Cobalt	29.1	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Boron	20900	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	101	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	1310	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	1380	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	5260	mg/L	07/23/2025	GJKOCENI	SM 2540C
Radium 226	0.364	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	0.135	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.499	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.61	SU	06/04/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34888 **Location:** GW Well CAP-9 **Date:** 06/04/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-9 **Time:** 12:38

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	8.1	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Barium	27.4	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Beryllium	18.4	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Calcium	623	mg/L	06/26/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Cobalt	47.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Lead	14.6	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Boron	9930	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	98.6	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	2.08	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	1220	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	802	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	3845	mg/L	06/05/2025	GJKOCENI	SM 2540C
Radium 226	0.234	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	4.27	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.50	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	3.74	SU	06/04/2025	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34889 **Location:** GW Well CAP-9 **Date:** 06/04/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-9 DUP **Time:** 12:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	8.2	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Barium	29.1	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Beryllium	18.3	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Calcium	640	mg/L	06/26/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Cobalt	48.3	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Lead	15.2	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Boron	9690	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	96.3	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	2.04	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	1220	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	803	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	3815	mg/L	06/05/2025	GJKOCENI	SM 2540C
Radium 226	0.690	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	3.07	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.76	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: 8/1/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG34890 **Location:** GW Well CAP-10 **Date:** 06/04/2025 **Sample Collector:** AGP/EA

Loc. Code CAP-10 **Time:** 14:03

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Barium	85.4	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Calcium	89.4	mg/L	06/26/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	06/26/2025	SKJACOBS	EPA 6020B
Boron	99.9	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Lithium	7.75	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	06/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	06/12/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Chloride	27.1	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Sulfate	8.66	mg/L	06/13/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	340.0	mg/L	06/05/2025	GJKOCENI	SM 2540C
Radium 226	0.854	pCi/L	06/24/2025	GEL	EPA 903.1 Mod
Radium 228	1.08	pCi/L	06/26/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.93	pCi/L	07/14/2025	SJLEVY	EPA 903.1 Mod
pH	6.95	SU	06/04/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21167 **Location:** GW Well CCMAP-1 **Date:** 01/30/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-1 **Time:** 12:40

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	44.8	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	60.7	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	0.64	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	<5.0	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	11.3	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	6.22	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	<0.1	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	5.61	mg/L	02/02/2025	GEL	EPA 300.0
Sulfate	1.33	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	210.0	mg/L	02/04/2025	SKJACOBS	SM 2540C
Radium 226	1.04	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	1.10	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.14	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	7.34	SU	01/30/2025	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21168 **Location:** GW Well CCMAP-2 **Date:** 01/30/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-2 **Time:** 13:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	15.9	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	3.9	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	0.63	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	<5.0	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	13.9	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	<0.1	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	5.91	mg/L	02/02/2025	GEL	EPA 300.0
Sulfate	0.893	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	37.50	mg/L	02/03/2025	SKJACOBS	SM 2540C
Radium 226	0.554	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	-0.115	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.554	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	5.43	SU	01/30/2025	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: Linda Williams Validation date: 4/11/25

Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21169 **Location:** GW Well CCMAP-3 **Date:** 01/21/2025 **Sample Collector:** MDG/DCA

Loc. Code CCMAP-3 **Time:** 10:10

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Barium	54.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/04/2025	SKJACOBS	EPA 6020B
Calcium	974	mg/L	02/03/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Cobalt	1.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Antimony	6.1	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
Boron	21500	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Lithium	48.3	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/06/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.1	mg/L	02/03/2025	SUB_GEL	EPA 300.0
Chloride	1190	mg/L	02/03/2025	GEL	EPA 300.0
Sulfate	1330	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	4402	mg/L	01/24/2025	SKJACOBS	SM 2540C
Radium 226	0.714	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	1.24	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.95	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	6.46	SU	01/21/2025	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21170 **Location:** GW Well CCMAP-4 **Date:** 02/03/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-4 **Time:** 11:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	203	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	75.5	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	5.8	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	5.4	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	17.3	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	0.104	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	41.0	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	2.48	mg/L	02/10/2025	GEL	EPA 300.0
Total Dissolved Solids	295.0	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.950	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.714	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.66	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.41	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21171 **Location:** GW Well CCMAP-4 **Date:** 02/03/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-4 DUP **Time:** 11:59

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	196	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	75.5	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	6.4	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	17.4	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	0.104	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	39.6	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	2.45	mg/L	02/10/2025	GEL	EPA 300.0
Total Dissolved Solids	310.0	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.741	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.43	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.17	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21172 **Location:** GW Well CCMAP-5 **Date:** 02/03/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-5 **Time:** 13:51

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	217	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	127	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	3.6	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	13.6	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	10.9	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	0.171	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	18.4	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	11.9	mg/L	02/10/2025	GEL	EPA 300.0
Total Dissolved Solids	410.0	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.603	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.784	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.39	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.78	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21173 **Location:** GW Well CCMAP-6 **Date:** 01/29/2025 **Sample Collector:** ATH/CDA

Loc. Code CCMAP-6 **Time:** 15:29

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Barium	44.6	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Beryllium	3.7	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Calcium	16.7	mg/L	02/06/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Cobalt	27.9	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Lead	3.2	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Boron	15.1	ug/L	02/10/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/10/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/10/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	0.36	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	1.28	mg/L	02/03/2025	SUB_GEL	EPA 300.0
Sulfate	57.1	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	105.0	mg/L	02/03/2025	SKJACOBS	SM 2540C
Radium 226	0.278	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	1.83	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.11	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	4.58	SU	01/29/2025	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

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21174 **Location:** GW Well CCMAP-7 **Date:** 01/21/2025 **Sample Collector:** MDG/DCA

Loc. Code CCMAP-7 **Time:** 11:19

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Barium	41.8	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	6.4	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	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
Boron	10.5	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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
Fluoride	0.16	mg/L	02/03/2025	SUB_GEL	EPA 300.0
Chloride	8.71	mg/L	02/03/2025	GEL	EPA 300.0
Sulfate	1.62	mg/L	02/03/2025	SUB_GEL	EPA 300.0
Total Dissolved Solids	65.00	mg/L	01/24/2025	SKJACOBS	SM 2540C
Radium 226	0.516	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	0.958	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.47	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	5.74	SU	01/21/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21175 **Location:** GW Well CCMAP-8 **Date:** 01/30/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-8 **Time:** 10:11

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	20.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	1.3	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	11.1	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	<5.0	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	11.3	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	6.17	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	<0.1	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	4.73	mg/L	02/02/2025	GEL	EPA 300.0
Sulfate	0.492	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	85.00	mg/L	02/03/2025	SKJACOBS	SM 2540C
Radium 226	0.286	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	0.261	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.547	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	4.98	SU	01/30/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21176 **Location:** GW Well CCMAP-9 **Date:** 01/29/2025 **Sample Collector:** ATH/CDA

Loc. Code CCMAP-9 **Time:** 14:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Barium	97.2	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Calcium	4.3	mg/L	02/06/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Cobalt	12.6	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/06/2025	SKJACOBS	EPA 6020B
Boron	19.1	ug/L	02/10/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/10/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/10/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	02/18/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.1	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	12.2	mg/L	02/03/2025	GEL	EPA 300.0
Sulfate	0.729	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	50.00	mg/L	02/04/2025	SKJACOBS	SM 2540C
Radium 226	0.609	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	1.00	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.61	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	4.89	SU	01/29/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21177 **Location:** GW Well CCMAP-10 **Date:** 01/30/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-10 **Time:** 09:20

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	28.9	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	1.6	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	7.8	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	<5.0	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	11.7	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	<0.1	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	4.98	mg/L	02/02/2025	GEL	EPA 300.0
Sulfate	1.11	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	32.50	mg/L	02/03/2025	SKJACOBS	SM 2540C
Radium 226	0.338	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	1.10	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.44	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	5.04	SU	01/30/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21178 **Location:** GW Well CCMAP-11 **Date:** 01/30/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-11 **Time:** 11:16

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Barium	28.9	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/19/2025	SKJACOBS	EPA 6020B
Calcium	7.9	mg/L	02/18/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/18/2025	SKJACOBS	EPA 6020B
Cobalt	1.3	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	5.2	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	10.4	ug/L	02/13/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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	<0.1	mg/L	02/03/2025	GEL	EPA 300.0
Chloride	6.00	mg/L	02/02/2025	GEL	EPA 300.0
Sulfate	1.14	mg/L	02/03/2025	GEL	EPA 300.0
Total Dissolved Solids	35.00	mg/L	02/03/2025	SKJACOBS	SM 2540C
Radium 226	0.456	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	0.364	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.820	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	5.60	SU	01/30/2025	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21179 **Location:** GW Well CCMAP-12 **Date:** 02/03/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-12 **Time:** 10:33

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	85.4	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	24.5	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	0.72	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	19.6	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	15.4	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	<0.100	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	10.6	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	1.93	mg/L	02/10/2025	GEL	EPA 300.0
Total Dissolved Solids	175.0	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.641	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.689	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.33	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.26	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21180 **Location:** GW Well CCMAP-13 **Date:** 02/03/2025 **Sample Collector:** ATH/DCA

Loc. Code CCMAP-13 **Time:** 09:30

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Barium	50.4	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Calcium	672	mg/L	02/20/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/20/2025	SKJACOBS	EPA 6020B
Cobalt	10.1	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	5.9	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	11700	ug/L	02/24/2025	SKJACOBS	EPA 6010D
Lithium	31.6	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	0.102	mg/L	02/10/2025	GEL	EPA 300.0
Chloride	738	mg/L	02/11/2025	GEL	EPA 300.0
Sulfate	784	mg/L	02/11/2025	GEL	EPA 300.0
Total Dissolved Solids	3170	mg/L	02/06/2025	GJKOCENI	SM 2540C
Radium 226	0.832	pCi/L	03/09/2025	GEL	EPA 903.1 Mod
Radium 228	0.0723	pCi/L	03/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.904	pCi/L	03/10/2025	GEL	EPA 903.1 Mod
pH	6.63	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

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG21181 **Location:** GW Well CCMAP-14 **Date:** 01/21/2025 **Sample Collector:** MDG/DCA

Loc. Code CCMAP-14 **Time:** 12:17

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Barium	67.3	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/04/2025	SKJACOBS	EPA 6020B
Calcium	41.4	mg/L	02/03/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Cobalt	14.2	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/03/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	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
Boron	10.9	ug/L	01/29/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	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
Fluoride	<0.1	mg/L	02/03/2025	SUB_GEL	EPA 300.0
Chloride	13.0	mg/L	02/03/2025	GEL	EPA 300.0
Sulfate	1.87	mg/L	02/03/2025	SUB_GEL	EPA 300.0
Total Dissolved Solids	145.0	mg/L	01/24/2025	SKJACOBS	SM 2540C
Radium 226	0.823	pCi/L	03/02/2025	SUB_GEL	EPA 903.1 Mod
Radium 228	0.731	pCi/L	02/26/2025	SUB_GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.55	pCi/L	03/24/2025	SJLEVY	EPA 903.1 Mod
pH	5.99	SU	01/21/2025	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

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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

Contract Lab Due Date (Lab Only) :

TAG21205

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**	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
~~AG21677~~ MDG	PM-1	1/14/25	1019	MDG/DCA	G	GW	9	2	1	1	3	2
~~AG21678~~ 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 APC 1449 221124000/4GF1097 GEL 1/10/25

santee cooper

Chain of Custody

Cross
NPDES/CCR

(CAP- 1, 3, 4, 5, 6, 7, 8, 9, 10, 13,and Duplicate CAP-9)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks MDG

Project/Task/Unit # ~~125815~~ JM02.08.G02.3 / 36500

Contract Lab Due Date (Lab Only) :

Sample Analysis Requested (Method)

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, Hg, Mo	F, Cl, SO4	Ra 226, Ra 228	TDS
Preservative								1	1	1	1/2	1
Bottle Type (Glass/Plastic)								P	P	P	P	P
AG2167~~3~~ 153	MDG CAP-1	1/14/25	1340	MDG DCA	G	GW	7	2	1	1	2	1
AG2167~~5~~ 153	MDG CAP-3	↓	1617	↓	↓	↓	7	2	1	1	2	1

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.5	TH

Comments

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		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

santee cooper

Chain of Custody

Cross
NPDES/CCR

(CAP- 1, 3, 4, 5, 6, 7, 8, 9, 10, 13,and Duplicate CAP-9)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # 125915 JM02.08.G02.3 / 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, Hg, Mo	F, Cl, SO4	Ra 226, Ra 228	TDS
	Preservative							1	1	1	1,2	1
	Bottle Type (Glass/Plastic)							P	P	P	P	P
AG21154	CAP-4	1/15/25	0942	MADG/CA	G	GW	7	2	1	1	2	1
AG21155	CAP-5	1/15/25	1106				7	2	1	1	2	1
AG21156	CAP-6		1223				7	2	1	1	2	1
AG21157	CAP-7		1350				7	2	1	1	2	1
AG21158	CAP-8		1456				7	2	1	1	2	1
AG21161	CAP-10		1614				7	2	1	1	2	1

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.1	TH

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3) TH
santee cooper 1/16/25@0745

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 #
Melanie Goings	32927	1/16/25	0747		36851
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #
Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #

Date	Time
1/16/25	0747
Date	Time
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
NPDES/CCR

(CAP- 1, 3, 4, 5, 6, 7, 8, 9, 10, 13,and Duplicate CAP-9)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # 125915 JM02.08.G02.3 / 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, Hg, Mo	F, Cl, SO4	Ra 226, Ra 228	TDS
	Preservative							1	1	1	1,2	1
	Bottle Type (Glass/Plastic)							P	P	P	P	P
								Fill in the Number of Containers for each Test				
AG21159	CAP-9	1/16/25	0954	MDS/DCA	G	GW	7	2	1	1	2	1
AG21160	CAP-9 Dup	↓	0959	↓	G	GW	7	2	1	1	2	1
AG21164	CAP-13	↓	1408	↓	G	GW	7	2	1	1	2	1

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.8	TH

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO_3)
santee cooper 1/17/25 @ 0858 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 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
[signature]	32927	1/17/25	0926	[signature]	36851	1/17/25	0828
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 CMA

(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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	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)**				
								Fill in the Number of Containers for each Test				
AG21177	CCMAP 10	1/30/25	920	ATH/DCA	G	GW	7	2	1	1	1	2
AG21175	CCMAP 8	1/30/25	1011	ATH/DCA	G	GW	7	2	1	1	1	2
AG21178	CCMAP 11	1/30/25	1116	ATH/DCA	G	GW	7	2	1	1	1	2
AG21167	CCMAP 1	1/30/25	1240	ATH/DCA	G	GW	7	2	1	1	1	2
AG21168	CC MAP 2	1/30/25	1347	ATH/DCA	G	GW	7	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.4	SJL

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
1/30/25 @ 1535 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# 235816/1107801J Date/Time/Int GEL 4/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
	36887	1/30/25	1500		35466	1/30/25	1500
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 CMA
(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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	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
										Fill in the Number of Containers for each Test				
AG21169	CCMAP-3	1/21/25	1010	MDG DCA	G	GW	7		P	2	1	1	1	2
AG21174	CCMAP-7	"	1119	"	G	GW	7		P	2	1	1	1	2
AG21191	CCMAP-14	"	1217	"	G	GW	7		P	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
3.4	TH

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
santee cooper 1340 1/21/25 CWM

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#	Date/Time/Int
		235816/0117801J	GEL 1/10/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Melanie D Goings	32927	1/21/25	1331		36851	1/21/25	1331
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 CMA
(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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	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							Fill in the Number of Containers for each Test				
AG21180	CCMAP-13	2/3/25	0930	ATH/DCA	G	GW	7	2	1	1	1	2
AG21179	CCMAP-12	2/3/25	1033	ATH/DCA	G	GW	7	2	1	1	1	2
AG21170	CCMAP-4	2/3/25	1154	ATH/DCA	G	GW	7	2	1	1	1	2
AG21171	CCMAP 4 DUP	2/3/25	1159	ATH/DCA	G	GW	7	2	1	1	1	2
AG21172	CCMAP 5	2/3/25	1351	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 @ 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# 235816/0115801J 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	0750	B. 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 CMA

(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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
AG21188	CCMLF 1D	1/29/25	1139	ATH/CDA	G	GW	7	2	1	1	1	2
AG21187	CCMLF 1	1/29/25	1239	ATH/CDA	G	GW	7	2	1	1	1	2
AG21189	CCMLF 2	1/29/25	1343	ATH/CDA	G	GW	7	2	1	1	1	2
AG21176	CCMAP 9	1/29/25	1447	ATH/CDA	G	GW	7	2	1	1	1	2
AG21173	CCMAP 6	1/29/25	1529	ATH/CDA	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
4.2	SJL

Comments

Lot # 1123070
Batch # 20240220-01
1:1 Nitric Acid (HNO3)
santee cooper 1/30/25 @ 1205 SJL
GF
ch

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
	36887	1/30/25	0740	Sheary	35594	1/30/25	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
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	Grab/Comp	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)
AG34934	PM-1	6/2/25	1034	A&P/EA	G	GW	8	2	1	1	3	2

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
4.3	SJL

Comments

→ TO GEL

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

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

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 Pitts	38361	6/3/25	741	SLevy	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 243272/011801J 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**	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	
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	
	~~CBW-1~~ 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 JMH 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
Ashlie Pace	38361	6/4/25	743	[signature]	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 220325000/4G16944 GEL 5/28/25
RAD 243272/0117801J GEL 5/28/25

Cross
NPDES/CCR

(CAP- 1, 3, 4, 5, 6, 7, 8, 9, 10, 13,and Duplicate CAP-9)

santee cooper

Chain of Custody

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # 125915 JM02.08.G02.3 / 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, Hg, Mo	F, Cl, SO4	Ra 226, Ra 228	TDS
Preservative								1	1	1	1/2	1
Bottle Type (Glass/Plastic)								P	P	P	P	P
AG34880	CAP-1	6/3/25	1120	AGP/EA	G	GW	7	2	1	1	2	1
AG34882	CAP-3	6/3/25	1343	AGP/EA	G	GW	7	2	1	1	2	1
AG34883	CAP-4	6/3/25	1450	AGP/EA	G	GW	7	2	1	1	2	1
AG34884	CAP-5	6/3/25	1616	AGP/EA	G	GW	7	2	1	1	2	1

Fill in the Number of Containers for each Test

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
0.6	TH

Comments

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# 242372/0117801J Date/Time/Int GEL 5/28/25

Relinquished by: (To Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Creighton Pardo	38361	6/4/25	742		36451	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

Cross
NPDES/CCR

(CAP- 1, 3, 4, 5, 6, 7, 8, 9, 10, 13,and Duplicate CAP-9)

Chain of Custody

santee cooper

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 weeks

Project/Task/Unit # 125915 JM02.08.G02.3 / 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, Hg, Mo	F, Cl, SO4	Ra 226, Ra 228	TDS
	Preservative							1	1	1	1/2	1
	Bottle Type (Glass/Plastic)							P	P	P	P	P
	Sample Type											
	Sample Analysis Requested (Method)											
	Fill in the Number of Containers for each Test											
AG34885	CAP-6	6/4/25	937	AGP/EA	G	GW	7	2	1	1	2	1
AG34886	CAP-7	6/4/25	1038	AGP/EA	G	GW	7	2	1	1	2	1
AG34887	CAP-8	6/4/25	1134	AGP/EA	G	GW	7	2	1	1	2	1
AG34888	CAP-9	6/4/25	1238	AGP/EA	G	GW	7	2	1	1	2	1
AG34889	CAP-9 DUP	6/4/25	1243	AGP/EA	G	GW	7	2	1	1	2	1
AG34890	CAP-10	6/4/25	1403	AGP/EA	G	GW	7	2	1	1	2	1

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
2.6	TH

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 6/5/25 0800

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
Clayton Peck	38361	6/5/25	748	[signature]	36851	6/5/25	0748
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 CMA

(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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 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
					Sample Type			Sample Analysis Requested (Method)				
					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				
AG34896	CCMAP-1	6/16/25	943	AGP/EA	G	GW	7	2	1	1	1	2
AG34907	CCMAP-11	6/16/25	1117	AGP/EA	G	GW	7	2	1	1	1	2
AG34904	CCMAP-8	6/16/25	1225	AGP/EA	G	GW	7	2	1	1	1	2
AG34906	CCMAP-10	6/16/25	1324	AGP/EA	G	GW	7	2	1	1	1	2
AG34905	CCMAP-9	6/16/25	1425	AGP/EA	G	GW	7	2	1	1	1	2
AG34918	CCMLF-2	6/16/25	1550	AGP/EA	G	GW	7	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.3	SJL

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
santee cooper 6/17/25 @ 0834 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
Ashton Hughes	38361	6/17/25	734	S. Levy	35594	6/17/25	0734
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 CMA

(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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) :

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	Y2
	Bottle Type (Glass/Plastic)							P	P	P	P	P
	Sample Type							Fill in the Number of Containers for each Test				
AG34902	CCMAP-6	6/12/25	1003	AGP/EA	G	GW	7	2	1	1	1	2
AG34898	CCMAP-3	6/12/25	1113	AGP/EA	G	GW	7	2	1	1	1	2
AG34903	CCMAP-7	6/12/25	1211	AGP/EA	G	GW	7	2	1	1	1	2
AG34910	CCMAP-14	6/12/25	1309	AGP/EA	G	GW	7	2	1	1	1	2
AG34897	CCMAP-2	6/12/25	1414	AGP/EA	G	GW	7	2	1	1	1	2
AG34908	CCMAP-12	6/12/25	1513	AGP/EA	G	GW	7	2	1	1	1	2
AG34909	CCMAP-13	6/12/25	1616	AGP/EA	G	GW	7	2	1	1	1	2

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
1.1	TH

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/13/2025 JRZ 0823

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
	38361	6/13/25	807		36851	6/13/25	0807
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 CMA

(CCMLF-1,CCMLF-1D, CCMLF-2, and CCMAP-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 with duplicate at CCMAP-4)

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~~ 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	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	
AG34899	CCMAP-4	6/11/25	1503	AGP/EA	G	GW	7	2	1	1	1	2	
AG34900	CCMAP-4 Dup	6/11/25	1508	AGP/EA	G	GW	7	2	1	1	1	2	
AG34901	CCMAP-5	6/11/25	1620	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

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/12/25 @ 0849 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# 243272/01178015 Date/Time/Int GEL 5/28/25

Relinquished by: (To Person)/ Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time
Ashley Nicks	38361	6/12/25	753	S Levy	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
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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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

125915/JM02.G02.3/36500

JOB NUMBER

680-261273-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

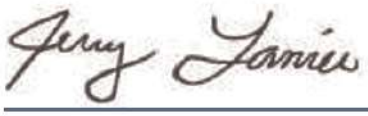
See page two for job notes and contact information.

Job Notes

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

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

Authorization



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

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Certification Summary 23

Job ID: 680-261273-1 — Eurofins Savannah

Job Narrative
680-261273-1

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.G02.3/36500

Job ID: 680-261273-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261273-1	AG21151	Water	01/14/25 13:40	01/29/25 11:00
680-261273-2	AG21153	Water	01/14/25 16:17	01/29/25 11:00
680-261273-3	AG21154	Water	01/15/25 09:42	01/29/25 11:00
680-261273-4	AG21155	Water	01/15/25 11:08	01/29/25 11:00
680-261273-5	AG21156	Water	01/15/25 12:23	01/29/25 11:00
680-261273-6	AG21157	Water	01/15/25 13:50	01/29/25 11:00
680-261273-7	AG21158	Water	01/15/25 14:56	01/29/25 11:00
680-261273-8	AG21161	Water	01/15/25 16:14	01/29/25 11:00

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

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.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21151 **Lab Sample ID: 680-261273-1**

No Detections.

Client Sample ID: AG21153 **Lab Sample ID: 680-261273-2**

No Detections.

Client Sample ID: AG21154 **Lab Sample ID: 680-261273-3**

No Detections.

Client Sample ID: AG21155 **Lab Sample ID: 680-261273-4**

No Detections.

Client Sample ID: AG21156 **Lab Sample ID: 680-261273-5**

No Detections.

Client Sample ID: AG21157 **Lab Sample ID: 680-261273-6**

No Detections.

Client Sample ID: AG21158 **Lab Sample ID: 680-261273-7**

No Detections.

Client Sample ID: AG21161 **Lab Sample ID: 680-261273-8**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21151
Date Collected: 01/14/25 13:40
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-1
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		01/30/25 12:20	01/31/25 10:23	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21153
Date Collected: 01/14/25 16:17
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-2
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 10:37	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21154
Date Collected: 01/15/25 09:42
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-3
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 10:33	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21155
Date Collected: 01/15/25 11:08
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-4
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		01/30/25 12:20	01/31/25 10:21	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21156
Date Collected: 01/15/25 12:23
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-5
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 10:14	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21157
Date Collected: 01/15/25 13:50
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-6
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 10:18	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21158
Date Collected: 01/15/25 14:56
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-7
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		01/30/25 12:20	01/31/25 10:09	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21161
Date Collected: 01/15/25 16:14
Date Received: 01/29/25 11:00

Lab Sample ID: 680-261273-8
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		01/30/25 12:20	01/31/25 10:35	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

Metals

Prep Batch: 873869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261273-1	AG21151	Total/NA	Water	7470A	
680-261273-2	AG21153	Total/NA	Water	7470A	
680-261273-3	AG21154	Total/NA	Water	7470A	
680-261273-4	AG21155	Total/NA	Water	7470A	
680-261273-5	AG21156	Total/NA	Water	7470A	
680-261273-6	AG21157	Total/NA	Water	7470A	
680-261273-7	AG21158	Total/NA	Water	7470A	
680-261273-8	AG21161	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
680-261273-1	AG21151	Total/NA	Water	7470A	873869
680-261273-2	AG21153	Total/NA	Water	7470A	873869
680-261273-3	AG21154	Total/NA	Water	7470A	873869
680-261273-4	AG21155	Total/NA	Water	7470A	873869
680-261273-5	AG21156	Total/NA	Water	7470A	873869
680-261273-6	AG21157	Total/NA	Water	7470A	873869
680-261273-7	AG21158	Total/NA	Water	7470A	873869
680-261273-8	AG21161	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

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21151

Lab Sample ID: 680-261273-1

Date Collected: 01/14/25 13:40
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 10:23

Client Sample ID: AG21153

Lab Sample ID: 680-261273-2

Date Collected: 01/14/25 16:17
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			873869	MG	EET SAV	01/30/25 12:20
Total/NA	Analysis	7470A		1	874046	BCB	EET SAV	01/31/25 10:37

Client Sample ID: AG21154

Lab Sample ID: 680-261273-3

Date Collected: 01/15/25 09:42
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 10:33

Client Sample ID: AG21155

Lab Sample ID: 680-261273-4

Date Collected: 01/15/25 11:08
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 10:21

Client Sample ID: AG21156

Lab Sample ID: 680-261273-5

Date Collected: 01/15/25 12:23
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 10:14

Client Sample ID: AG21157

Lab Sample ID: 680-261273-6

Date Collected: 01/15/25 13:50
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 10:18

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.G02.3/36500

Job ID: 680-261273-1

Client Sample ID: AG21158

Lab Sample ID: 680-261273-7

Date Collected: 01/15/25 14:56
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 10:09

Client Sample ID: AG21161

Lab Sample ID: 680-261273-8

Date Collected: 01/15/25 16:14
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 10:35

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 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 / JM02.08.002.3 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	MERCURY
AG21151	CAP-1	1/14/25	1340	MDG DGA	1	P	G	GW	2		X
1 53	CAP-3	1	1617	1	1	1	1	1	1		1
AG21154	CAP-4	1/15/25	0942	1	1	1	1	1	1		1
1 55	CAP-5	1	1108	1	1	1	1	1	1		1
56	CAP-6	1	1223	1	1	1	1	1	1		1
57	CAP-7	1	1350	1	1	1	1	1	1		1
58	CAP-8	1	1456	1	1	1	1	1	1		1
1 61	CAP-10	1	1614	1	1	1	1	1	1		1

680-261273 Chain of Custody

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia		☐ BTEX	☐ Al ☐ As ☐ B
☐ DOC	☐ AIM	☐ % Moisture	☐ LOI		☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon		☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ Total metals	☐ Sulfur	☐ Mineral Analysis		☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ Soluble Metals	☐ BTUs	☐ Sieve		☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ Purity (CaSO4)	Ultimate	☐ % Moisture		☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ Moisture	☐ Volatile Matter			☐ pH	☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES		☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐	☐ HGI	☐ Oil & Grease		☐ 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	JL. Caldwell	COURIER	1/29/25	0814
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
B Caldwell					
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		C. Munn		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: 680-261273-1

Login Number: 261273

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: 680-261273-1
Project/Site: 125915/JM02.G02.3/36500

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 6/19/2025 5:20:16 PM

JOB DESCRIPTION

125915/JM02.08.G02.3/36500

JOB NUMBER

705-33242-1

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

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Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 705-33242-1 — Eurofins Atlanta

Job Narrative
705-33242-1

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/JM02.08.G02.3/36500

Job ID: 705-33242-1

Client Sample ID: AG-34893 — Lab Sample ID: 705-33242-1

No Detections.

Client Sample ID: AG-34885 — Lab Sample ID: 705-33242-2

No Detections.

Client Sample ID: AG-34886 — Lab Sample ID: 705-33242-3

No Detections.

Client Sample ID: AG-34887 — Lab Sample ID: 705-33242-4

No Detections.

Client Sample ID: AG-34888 — Lab Sample ID: 705-33242-5

No Detections.

Client Sample ID: AG-34889 — Lab Sample ID: 705-33242-6

No Detections.

Client Sample ID: AG-34890 — Lab Sample ID: 705-33242-7

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33242-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-33242-1	AG-34893	Water	06/05/25 09:37	06/11/25 10:00
705-33242-2	AG-34885	Water	06/04/25 09:37	06/11/25 10:00
705-33242-3	AG-34886	Water	06/04/25 10:38	06/11/25 10:00
705-33242-4	AG-34887	Water	06/04/25 11:39	06/11/25 10:00
705-33242-5	AG-34888	Water	06/04/25 12:38	06/11/25 10:00
705-33242-6	AG-34889	Water	06/04/25 12:43	06/11/25 10:00
705-33242-7	AG-34890	Water	06/04/25 14:03	06/11/25 10:00

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33242-1

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
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

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33242-1

Client Sample ID: AG-34893
Lab Sample ID: 705-33242-1
Date Collected: 06/05/25 09:37
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		06/18/25 13:25	06/18/25 21:08	1

Client Sample ID: AG-34885
Lab Sample ID: 705-33242-2
Date Collected: 06/04/25 09:37
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 19:01	1

Client Sample ID: AG-34886
Lab Sample ID: 705-33242-3
Date Collected: 06/04/25 10:38
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 19:05	1

Client Sample ID: AG-34887
Lab Sample ID: 705-33242-4
Date Collected: 06/04/25 11:39
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 19:09	1

Client Sample ID: AG-34888
Lab Sample ID: 705-33242-5
Date Collected: 06/04/25 12:38
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 19:13	1

Client Sample ID: AG-34889
Lab Sample ID: 705-33242-6
Date Collected: 06/04/25 12:43
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 19:17	1

Client Sample ID: AG-34890
Lab Sample ID: 705-33242-7
Date Collected: 06/04/25 14:03
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 19:21	1

Metals

Prep Batch: 61050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33242-2	AG-34885	Total/NA	Water	7470A	
705-33242-3	AG-34886	Total/NA	Water	7470A	
705-33242-4	AG-34887	Total/NA	Water	7470A	
705-33242-5	AG-34888	Total/NA	Water	7470A	
705-33242-6	AG-34889	Total/NA	Water	7470A	
705-33242-7	AG-34890	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-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
705-33233-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 61272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33242-2	AG-34885	Total/NA	Water	7470A	61050
705-33242-3	AG-34886	Total/NA	Water	7470A	61050
705-33242-4	AG-34887	Total/NA	Water	7470A	61050
705-33242-5	AG-34888	Total/NA	Water	7470A	61050
705-33242-6	AG-34889	Total/NA	Water	7470A	61050
705-33242-7	AG-34890	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-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	61050
705-33233-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	61050

Prep Batch: 62329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33242-1	AG-34893	Total/NA	Water	7470A	
MB 705-62329/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-62329/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-33229-M-4-C MS	Matrix Spike	Total/NA	Water	7470A	
705-33229-M-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 62508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33242-1	AG-34893	Total/NA	Water	7470A	62329
MB 705-62329/1-A	Method Blank	Total/NA	Water	7470A	62329
LCS 705-62329/2-A	Lab Control Sample	Total/NA	Water	7470A	62329
705-33229-M-4-C MS	Matrix Spike	Total/NA	Water	7470A	62329
705-33229-M-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	62329

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-A-1-B MS
Matrix: Water
Analysis Batch: 61272

Client Sample ID: Matrix Spike
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-A-1-C MSD
Matrix: Water
Analysis Batch: 61272

Client Sample ID: Matrix Spike Duplicate
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 Sample ID: MB 705-62329/1-A
Matrix: Water
Analysis Batch: 62508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		06/18/25 13:25	06/18/25 20:41	1

Lab Sample ID: LCS 705-62329/2-A
Matrix: Water
Analysis Batch: 62508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.004237		mg/L		106	80 - 120

Lab Sample ID: 705-33229-M-4-C MS
Matrix: Water
Analysis Batch: 62508

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U F1	0.00400	0.001959	F1	mg/L		49	75 - 125

Lab Sample ID: 705-33229-M-4-D MSD
Matrix: Water
Analysis Batch: 62508

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U F1	0.00400	0.001931	F1	mg/L		48	75 - 125	1	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33242-1

Client Sample ID: AG-34893
Date Collected: 06/05/25 09:37
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			62329	GR	EET ATL	06/18/25 13:25
Total/NA	Analysis	7470A		1	62508	GR	EET ATL	06/18/25 21:08

Client Sample ID: AG-34885
Date Collected: 06/04/25 09:37
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-2
Matrix: Water

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 19:01

Client Sample ID: AG-34886
Date Collected: 06/04/25 10:38
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-3
Matrix: Water

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 19:05

Client Sample ID: AG-34887
Date Collected: 06/04/25 11:39
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-4
Matrix: Water

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 19:09

Client Sample ID: AG-34888
Date Collected: 06/04/25 12:38
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-5
Matrix: Water

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 19:13

Client Sample ID: AG-34889
Date Collected: 06/04/25 12:43
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-6
Matrix: Water

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 19:17

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33242-1

Client Sample ID: AG-34890
Date Collected: 06/04/25 14:03
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33242-7
Matrix: Water

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 19:21

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 / JM02.08.G02.3 / 36500

Rerun request for any flagged: (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 34893	CAP-13	6/5/25	0937	AGP EA	1	P	G	GW	2	7470 RL= 0.2 ug/L	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								

705-33242 COC

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

Gypsum
- Wallboard
- ADI
- TOC
- Total metals
- Soluble [redacted]
- [redacted]
- % Moisture
- Sulfites
- pH
- Chlorides
- [redacted]
- 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
- [redacted]
- Color
- Acidity
- Dielectric Strength
- IFT
- Dissolved Gases
- Used Oil
- [redacted]
- Metals (As, Cd, Cr, Pb, Hg)
- COFER

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	[redacted]	Ca	Cd
Co	Cr	Cu	Fe
K	Li	Mg	Mn
Mo	Na	Ni	Pb
Sb	Se	Sn	[redacted]
Ti	Tl	V	Zn
Hg	[redacted]	XRF scan	
[redacted]			

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	FED-EX	—	6/18/25	1200
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		Anthony Stern		6/18/25	1400
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)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-33242-1

Login Number: 33242
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.	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	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 705-33242-1
Project/Site: 125915/JM02.08.G02.3/36500

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 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.

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

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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

Client: South Carolina Public Service Authority
Job ID: 705-33233-1
Project/Site: 125915/JM02.09.G01/36500

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 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

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

Job ID: 705-33233-1

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
Date Collected: 06/02/25 10:34
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33233-1
Matrix: Water

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
Date Collected: 06/05/25 10:47
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33233-2
Matrix: Water

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
Date Collected: 06/05/25 11:45
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33233-3
Matrix: Water

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
Date Collected: 06/05/25 12:44
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33233-4
Matrix: Water

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
Date Collected: 06/05/25 13:39
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33233-5
Matrix: Water

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
Date Collected: 06/05/25 13:44
Date Received: 06/11/25 10:00

Lab Sample ID: 705-33233-6
Matrix: Water

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	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
TOC	Wallboard	Short Prox.	Ammonia	Trans. Oil Quality	BTEX	Ag Al As B
DOC	ASM	% Moisture	LOI	Viscosity	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	Pensky-Martens	E. Coli	Mo Na Ni Pb
Cl	Purity (CaSO4)	Ultimate	% Moisture	Flash Point	Total Coliform	Sb Se Sn Sr
NO2	% Moisture	Volatile Matter		Dissolved Metals	pH	Ti Tl V Zn
Br	Sulfites	CHN	NPDES	Used Oil	Dissolved As	Hg CVL XRF scan
NO3	pH	HGI	Oil & Grease	Halogens	Dissolved Fe	RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
SO4		Other Analysis:	As	Metals (Cd, Cr, Pb, Hg, Se, Ag)	Rad 226	
	Particle Size	Fineness	TSS	Ni, Pb, Hg	Rad 228	
	Sulfur	Particulate Matter		COPPER	PCB	
	USDA					

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 7/2/2025 9:50:15 AM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

705-34160-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

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 9:50:15 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 705-34160-1 — Eurofins Atlanta

Job Narrative
705-34160-1

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.G01.1/36500

Job ID: 705-34160-1

Client Sample ID: AG34902 — **Lab Sample ID: 705-34160-1**

No Detections.

Client Sample ID: AG34898 — **Lab Sample ID: 705-34160-2**

No Detections.

Client Sample ID: AG34903 — **Lab Sample ID: 705-34160-3**

No Detections.

Client Sample ID: AG34910 — **Lab Sample ID: 705-34160-4**

No Detections.

Client Sample ID: AG34897 — **Lab Sample ID: 705-34160-5**

No Detections.

Client Sample ID: AG34908 — **Lab Sample ID: 705-34160-6**

No Detections.

Client Sample ID: AG34909 — **Lab Sample ID: 705-34160-7**

No Detections.

Client Sample ID: AG34916 — **Lab Sample ID: 705-34160-8**

No Detections.

Client Sample ID: AG34917 — **Lab Sample ID: 705-34160-9**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

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

Job ID: 705-34160-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-34160-1	AG34902	Water	06/12/25 10:03	06/19/25 09:44
705-34160-2	AG34898	Water	06/12/25 11:13	06/19/25 09:44
705-34160-3	AG34903	Water	06/12/25 12:11	06/19/25 09:44
705-34160-4	AG34910	Water	06/12/25 13:08	06/19/25 09:44
705-34160-5	AG34897	Water	06/12/25 14:14	06/19/25 09:44
705-34160-6	AG34908	Water	06/12/25 15:13	06/19/25 09:44
705-34160-7	AG34909	Water	06/12/25 16:16	06/19/25 09:44
705-34160-8	AG34916	Water	06/17/25 09:41	06/19/25 09:44
705-34160-9	AG34917	Water	06/17/25 10:33	06/19/25 09:44

Method Summary

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

Job ID: 705-34160-1

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
Job ID: 705-34160-1
Project/Site: 125915/JM02.09.G01.1/36500

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.G01.1/36500

Job ID: 705-34160-1

Client Sample ID: AG34902
Lab Sample ID: 705-34160-1
Date Collected: 06/12/25 10:03
Matrix: Water
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 16:56	1

Client Sample ID: AG34898
Lab Sample ID: 705-34160-2
Date Collected: 06/12/25 11:13
Matrix: Water
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 16:59	1

Client Sample ID: AG34903
Lab Sample ID: 705-34160-3
Date Collected: 06/12/25 12:11
Matrix: Water
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 17:03	1

Client Sample ID: AG34910
Lab Sample ID: 705-34160-4
Date Collected: 06/12/25 13:08
Matrix: Water
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 17:07	1

Client Sample ID: AG34897
Lab Sample ID: 705-34160-5
Date Collected: 06/12/25 14:14
Matrix: Water
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 17:11	1

Client Sample ID: AG34908
Lab Sample ID: 705-34160-6
Date Collected: 06/12/25 15:13
Matrix: Water
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 17:55	1

Client Sample ID: AG34909
Lab Sample ID: 705-34160-7
Date Collected: 06/12/25 16:16
Matrix: Water
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 17:59	1

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

Job ID: 705-34160-1

Client Sample ID: AG34916

Lab Sample ID: 705-34160-8

Date Collected: 06/17/25 09:41
Matrix: Water
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 18:03	1

Client Sample ID: AG34917

Lab Sample ID: 705-34160-9

Date Collected: 06/17/25 10:33
Matrix: Water
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 18:07	1

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

Job ID: 705-34160-1

Metals

Prep Batch: 64872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-34160-1	AG34902	Total/NA	Water	7470A	
705-34160-2	AG34898	Total/NA	Water	7470A	
705-34160-3	AG34903	Total/NA	Water	7470A	
705-34160-4	AG34910	Total/NA	Water	7470A	
705-34160-5	AG34897	Total/NA	Water	7470A	
705-34160-6	AG34908	Total/NA	Water	7470A	
705-34160-7	AG34909	Total/NA	Water	7470A	
705-34160-8	AG34916	Total/NA	Water	7470A	
705-34160-9	AG34917	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
705-34160-1	AG34902	Total/NA	Water	7470A	64872
705-34160-2	AG34898	Total/NA	Water	7470A	64872
705-34160-3	AG34903	Total/NA	Water	7470A	64872
705-34160-4	AG34910	Total/NA	Water	7470A	64872
705-34160-5	AG34897	Total/NA	Water	7470A	64872
705-34160-6	AG34908	Total/NA	Water	7470A	64872
705-34160-7	AG34909	Total/NA	Water	7470A	64872
705-34160-8	AG34916	Total/NA	Water	7470A	64872
705-34160-9	AG34917	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.G01.1/36500

Job ID: 705-34160-1

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.G01.1/36500

Job ID: 705-34160-1

Client Sample ID: AG34902

Lab Sample ID: 705-34160-1

Date Collected: 06/12/25 10:03
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			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 16:56

Client Sample ID: AG34898

Lab Sample ID: 705-34160-2

Date Collected: 06/12/25 11:13
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			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 16:59

Client Sample ID: AG34903

Lab Sample ID: 705-34160-3

Date Collected: 06/12/25 12:11
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			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 17:03

Client Sample ID: AG34910

Lab Sample ID: 705-34160-4

Date Collected: 06/12/25 13:08
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			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 17:07

Client Sample ID: AG34897

Lab Sample ID: 705-34160-5

Date Collected: 06/12/25 14:14
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			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 17:11

Client Sample ID: AG34908

Lab Sample ID: 705-34160-6

Date Collected: 06/12/25 15:13
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			64872	GR	EET ATL	06/30/25 12:10
Total/NA	Analysis	7470A		1	64962	GR	EET ATL	06/30/25 17:55

Lab Chronicle

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

Job ID: 705-34160-1

Client Sample ID: AG34909

Lab Sample ID: 705-34160-7

Date Collected: 06/12/25 16:16
Date Received: 06/19/25 09:44

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 17:59

Client Sample ID: AG34916

Lab Sample ID: 705-34160-8

Date Collected: 06/17/25 09:41
Date Received: 06/19/25 09:44

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 18:03

Client Sample ID: AG34917

Lab Sample ID: 705-34160-9

Date Collected: 06/17/25 10:33
Date Received: 06/19/25 09:44

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 18:07

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.G81.1 / 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	HG			
AG34902	CCMAP-6	6/12/25	1003	AGP EA	1	P	G	GW	2	7470 RL < 0.2 ug/L	X			
AG34898	CCMAP-3		1113											
AG34903	CCMAP-7		1211											
AG34910	CCMAP-14		1308											
AG34897	CCMAP-2		1414											
AG34908	CCMAP-12		1513											
AG34909	CCMAP-13		1616											
AG34916	CCMLF-1	6/17/25	0941											
AG34917	CCMLF-1D		1033											

705-34160 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	☐ 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	☐ Used Oil	☐ Dissolved As	☐ Hg ☐ CrVI XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ Flashpoint	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter		☐ GOFER	☐ 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
		[illegible]		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): 14.0 #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: 705-34160-1

Login Number: 34160
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: 705-34160-1
Project/Site: 125915/JM02.09.G01.1/36500

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 2/19/2025 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.

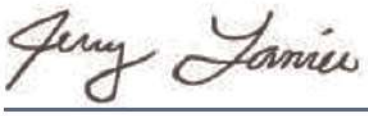
my EOL

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



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

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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

Lab Chronicle

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

Job ID: 680-261808-1

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
- 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
- Color
- Strength
- IFT
- Dissolved Gases
- Used Oil
- Metals
- 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
- 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
  - 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
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 ug/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) COFFR

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
		C. Mann		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)

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 2/7/2025 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.

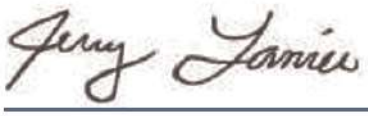
myEOL

Job Notes

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

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

Authorization



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

Table of Contents

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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

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
Job ID: 680-261276-1
Project/Site: 125915/JM02.09.G01/36500

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

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

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 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.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											
74	CCMAP-7		1119											
81	CCMAP-14		1217											

680-261276 Chain of Custody

Nutrients	Gypsum	Coal	Flyash		MISC.	
TOC	Wallboard	Short Prox.	Ammonia	Color	BTEX	Ba Be Ca Cd
DOC	AIM	% Moisture	LOI	Acidity	Naphthalene	Co Cr Cu Fe
TP/TPO4	TOC	Ash	% Carbon	Dielectric Strength	VOA/Semi	K Li Mg Mn
NH3-N	Total metals	Sulfur	Mineral Analysis	IFT	Oil & Grease	Mo Na Ni Pb
F	Soluble	BTUs	Sieve	Dissolved Gases	E. Coli	Sb Se Sn Sr
Cl	Purity (CaSO4)	Ultimate	% Moisture		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. Caldera	COURIER	1/29/25	0814
R. Caldera					
		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 10:05:30 AM

JOB DESCRIPTION

125915/JM02.09.G01.1/36110

JOB NUMBER

705-34179-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

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 10:05:30 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 705-34179-1 — Eurofins Atlanta

Job Narrative
705-34179-1

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.G01.1/36110

Job ID: 705-34179-1

Client Sample ID: AG34896 — Lab Sample ID: 705-34179-1

No Detections.

Client Sample ID: AG34907 — Lab Sample ID: 705-34179-2

No Detections.

Client Sample ID: AG34904 — Lab Sample ID: 705-34179-3

No Detections.

Client Sample ID: AG34906 — Lab Sample ID: 705-34179-4

No Detections.

Client Sample ID: AG34905 — Lab Sample ID: 705-34179-5

No Detections.

Client Sample ID: AG34918 — Lab Sample ID: 705-34179-6

No Detections.

Client Sample ID: AG34899 — Lab Sample ID: 705-34179-7

No Detections.

Client Sample ID: AG34900 — Lab Sample ID: 705-34179-8

No Detections.

Client Sample ID: AG34901 — Lab Sample ID: 705-34179-9

No Detections.

This Detection Summary does not include radiochemical test results.

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Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36110

Job ID: 705-34179-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-34179-1	AG34896	Water	06/16/25 09:43	06/19/25 12:44
705-34179-2	AG34907	Water	06/16/25 11:17	06/19/25 12:44
705-34179-3	AG34904	Water	06/16/25 12:25	06/19/25 12:44
705-34179-4	AG34906	Water	06/16/25 13:29	06/19/25 12:44
705-34179-5	AG34905	Water	06/16/25 14:25	06/19/25 12:44
705-34179-6	AG34918	Water	06/16/25 15:52	06/19/25 12:44
705-34179-7	AG34899	Water	06/11/25 15:03	06/19/25 12:44
705-34179-8	AG34900	Water	06/11/25 15:08	06/19/25 12:44
705-34179-9	AG34901	Water	06/11/25 16:20	06/19/25 12:44

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36110

Job ID: 705-34179-1

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/JM02.09.G01.1/36110

Job ID: 705-34179-1

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.G01.1/36110

Job ID: 705-34179-1

Client Sample ID: AG34896
Lab Sample ID: 705-34179-1
Date Collected: 06/16/25 09:43
Matrix: Water
Date Received: 06/19/25 12:44

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 19:56	1

Client Sample ID: AG34907
Lab Sample ID: 705-34179-2
Date Collected: 06/16/25 11:17
Matrix: Water
Date Received: 06/19/25 12:44

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 20:00	1

Client Sample ID: AG34904
Lab Sample ID: 705-34179-3
Date Collected: 06/16/25 12:25
Matrix: Water
Date Received: 06/19/25 12:44

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 20:04	1

Client Sample ID: AG34906
Lab Sample ID: 705-34179-4
Date Collected: 06/16/25 13:29
Matrix: Water
Date Received: 06/19/25 12:44

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 20:08	1

Client Sample ID: AG34905
Lab Sample ID: 705-34179-5
Date Collected: 06/16/25 14:25
Matrix: Water
Date Received: 06/19/25 12:44

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 20:11	1

Client Sample ID: AG34918
Lab Sample ID: 705-34179-6
Date Collected: 06/16/25 15:52
Matrix: Water
Date Received: 06/19/25 12:44

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 20:27	1

Client Sample ID: AG34899
Lab Sample ID: 705-34179-7
Date Collected: 06/11/25 15:03
Matrix: Water
Date Received: 06/19/25 12:44

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 20:31	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36110

Job ID: 705-34179-1

Client Sample ID: AG34900

Lab Sample ID: 705-34179-8

Date Collected: 06/11/25 15:08
Matrix: Water
Date Received: 06/19/25 12:44

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 20:35	1

Client Sample ID: AG34901

Lab Sample ID: 705-34179-9

Date Collected: 06/11/25 16:20
Matrix: Water
Date Received: 06/19/25 12:44

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 20:39	1

Metals

Prep Batch: 64885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-34179-1	AG34896	Total/NA	Water	7470A	
705-34179-2	AG34907	Total/NA	Water	7470A	
705-34179-3	AG34904	Total/NA	Water	7470A	
705-34179-4	AG34906	Total/NA	Water	7470A	
705-34179-5	AG34905	Total/NA	Water	7470A	
705-34179-6	AG34918	Total/NA	Water	7470A	
705-34179-7	AG34899	Total/NA	Water	7470A	
705-34179-8	AG34900	Total/NA	Water	7470A	
705-34179-9	AG34901	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
705-34179-1	AG34896	Total/NA	Water	7470A	64885
705-34179-2	AG34907	Total/NA	Water	7470A	64885
705-34179-3	AG34904	Total/NA	Water	7470A	64885
705-34179-4	AG34906	Total/NA	Water	7470A	64885
705-34179-5	AG34905	Total/NA	Water	7470A	64885
705-34179-6	AG34918	Total/NA	Water	7470A	64885
705-34179-7	AG34899	Total/NA	Water	7470A	64885
705-34179-8	AG34900	Total/NA	Water	7470A	64885
705-34179-9	AG34901	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: 705-34179-1

Client Sample ID: AG34896
Date Collected: 06/16/25 09:43
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-1
Matrix: Water

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 19:56

Client Sample ID: AG34907
Date Collected: 06/16/25 11:17
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-2
Matrix: Water

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 20:00

Client Sample ID: AG34904
Date Collected: 06/16/25 12:25
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-3
Matrix: Water

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 20:04

Client Sample ID: AG34906
Date Collected: 06/16/25 13:29
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-4
Matrix: Water

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 20:08

Client Sample ID: AG34905
Date Collected: 06/16/25 14:25
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-5
Matrix: Water

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 20:11

Client Sample ID: AG34918
Date Collected: 06/16/25 15:52
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-6
Matrix: Water

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 20:27

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36110

Job ID: 705-34179-1

Client Sample ID: AG34899
Date Collected: 06/11/25 15:03
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-7
Matrix: Water

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 20:31

Client Sample ID: AG34900
Date Collected: 06/11/25 15:08
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-8
Matrix: Water

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 20:35

Client Sample ID: AG34901
Date Collected: 06/11/25 16:20
Date Received: 06/19/25 12:44

Lab Sample ID: 705-34179-9
Matrix: Water

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 20:39

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.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	Hg			
AG34896	CCMAP-1	6/16/25	0943	AGP EA	1	P	G	GW	2	7470 RL < 0.2 ug/L	X			
AG34907	CCMAP-11		1117											
AG34904	CCMAP-8		1225											
AG34906	CCMAP-10		1329											
AG34905	CCMAP-9		1425											
AG34918	CCMLF-2		1552											
AG34899	CCMAP-4	6/11/25	1503								X			
AG34900	CCMAP-4 DUP		1508											
AG34901	CCMAP-5		1620											

705-34179 COC

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Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
☐ TOC	☐ Wallboard	☐ Short Prox.	☐ Ammonia	☐ Trans. Oil Quality	☐ BTEX	☐ Ag ☐ Al ☐ As ☐ B
☐ DOC	☐ [redacted]	☐ % Moisture	☐ LOI	☐ %Moisture	☐ Naphthalene	☐ Ba ☐ Be ☐ Ca ☐ Cd
☐ TP/TPO4	☐ TOC	☐ Ash	☐ % Carbon	☐ Color	☐ VOA/Semi	☐ Co ☐ Cr ☐ Cu ☐ Fe
☐ NH3-N	☐ [redacted]	☐ Sulfur	☐ Mineral Analysis	☐ [redacted] dav	☐ Oil & Grease	☐ K ☐ Li ☐ Mg ☐ Mn
☐ F	☐ [redacted]	☐ BTUs	☐ Sieve	☐ [redacted]	☐ E. Coli	☐ Mo ☐ Na ☐ Ni ☐ Pb
☐ Cl	☐ [redacted]	Ultimate	☐ % Moisture	☐ IFT	☐ Total Coliform	☐ Sb ☐ Se ☐ Sn ☐ Sr
☐ NO2	☐ [redacted]	☐ Volatile Matter		☐ [redacted]	☐ pH	☐ Ti ☐ Tl ☐ V ☐ Zn
☐ Br	☐ Sulfites	☐ CHN	NPDES	☐ Used Oil	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ [redacted]	☐ HGI	☐ Oil & Grease	☐ Flashpoint	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ [redacted]	Other Analysis:	☐ As	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☐ Rad 228	
	☐ Solids	☐ Particulate Matter		GOFER	☐ 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
		[redacted]		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 # 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: 705-34179-1

Login Number: 34179
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: 705-34179-1
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 6/13/2025 9:22:47 AM

JOB DESCRIPTION

125915/JM02.08.G02.3/36500

JOB NUMBER

705-33237-1

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
6/13/2025 9:22:47 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
(770)457-8177

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Job ID: 705-33237-1 — Eurofins Atlanta

Job Narrative
705-33237-1

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/JM02.08.G02.3/36500

Job ID: 705-33237-1

Client Sample ID: AG34880 — **Lab Sample ID: 705-33237-1**

No Detections.

Client Sample ID: AG34882 — **Lab Sample ID: 705-33237-2**

No Detections.

Client Sample ID: AG34883 — **Lab Sample ID: 705-33237-3**

No Detections.

Client Sample ID: AG34884 — **Lab Sample ID: 705-33237-4**

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-33237-1	AG34880	Water	06/03/25 11:26	06/11/25 10:00
705-33237-2	AG34882	Water	06/03/25 13:43	06/11/25 10:00
705-33237-3	AG34883	Water	06/03/25 14:50	06/11/25 10:00
705-33237-4	AG34884	Water	06/03/25 16:16	06/11/25 10:00

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33237-1

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.G02.3/36500

Job ID: 705-33237-1

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/JM02.08.G02.3/36500

Job ID: 705-33237-1

Client Sample ID: AG34880 — **Lab Sample ID: 705-33237-1**
Date Collected: 06/03/25 11:26 — **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 19:36	1

Client Sample ID: AG34882 — **Lab Sample ID: 705-33237-2**
Date Collected: 06/03/25 13:43 — **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 19:52	1

Client Sample ID: AG34883 — **Lab Sample ID: 705-33237-3**
Date Collected: 06/03/25 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 19:56	1

Client Sample ID: AG34884 — **Lab Sample ID: 705-33237-4**
Date Collected: 06/03/25 16:16 — **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 19:59	1

QC Association Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33237-1

Metals

Prep Batch: 61050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33237-1	AG34880	Total/NA	Water	7470A	
705-33237-2	AG34882	Total/NA	Water	7470A	
705-33237-3	AG34883	Total/NA	Water	7470A	
705-33237-4	AG34884	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-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
705-33233-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 61272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-33237-1	AG34880	Total/NA	Water	7470A	61050
705-33237-2	AG34882	Total/NA	Water	7470A	61050
705-33237-3	AG34883	Total/NA	Water	7470A	61050
705-33237-4	AG34884	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-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	61050
705-33233-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	61050

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G02.3/36500

Job ID: 705-33237-1

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-A-1-B MS
Matrix: Water
Analysis Batch: 61272

Client Sample ID: Matrix Spike
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-A-1-C MSD
Matrix: Water
Analysis Batch: 61272

Client Sample ID: Matrix Spike Duplicate
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/JM02.08.G02.3/36500

Job ID: 705-33237-1

Client Sample ID: AG34880

Lab Sample ID: 705-33237-1

Date Collected: 06/03/25 11:26
Date Received: 06/11/25 10:00

Matrix: Water

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 19:36

Client Sample ID: AG34882

Lab Sample ID: 705-33237-2

Date Collected: 06/03/25 13:43
Date Received: 06/11/25 10:00

Matrix: Water

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 19:52

Client Sample ID: AG34883

Lab Sample ID: 705-33237-3

Date Collected: 06/03/25 14:50
Date Received: 06/11/25 10:00

Matrix: Water

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 19:56

Client Sample ID: AG34884

Lab Sample ID: 705-33237-4

Date Collected: 06/03/25 16:16
Date Received: 06/11/25 10:00

Matrix: Water

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 19:59

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 / JM02.08.G02.3 / 36500

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	HG
AG34880	CAP-1	6/3/25	1126	AGP EA	1	P	G	GW	2	7470 RL= 0.2 ug/L	X
AG34882	CAP-3		1343								
AG34883	CAP-4		1450								
AG34884	CAP-5		1616								

705-33237 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
- Trans. Oil Quality
- Used Oil
- COFER

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
[redacted]	[redacted]	Cu	[redacted]
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	—	6/10/25	1200
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
		[signature]		6/11/25	1020
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)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-33237-1

Login Number: 33237
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: 705-33237-1
Project/Site: 125915/JM02.08.G02.3/36500

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

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: 704940 GEL Work Order: 704940

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

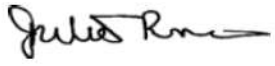
J Value is estimated

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: January 28, 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:	AG21151	Project:	SOOP00119
Sample ID:	704940001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-JAN-25 13:40		
Receive Date:	17-JAN-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"												
Chloride		168	6.70	20.0	mg/L		100	CWW	01/17/25	2028	2736888	1
Sulfate		759	13.3	40.0	mg/L		100					
Fluoride		1.64	0.165	0.500	mg/L		5	CWW	01/18/25	0458	2736888	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: January 28, 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:	AG21153	Project:	SOOP00119
Sample ID:	704940002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	14-JAN-25 16:17		
Receive Date:	17-JAN-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"												
Chloride		378	6.70	20.0	mg/L		100	CWW	01/17/25	2204	2736888	1
Sulfate		628	13.3	40.0	mg/L		100					
Fluoride		0.101	0.0330	0.100	mg/L		1	CWW	01/18/25	1951	2736888	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

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Certificate of Analysis

Report Date: January 28, 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:	AG21154	Project:	SOOP00119
Sample ID:	704940003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	15-JAN-25 09:42		
Receive Date:	17-JAN-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"												
Chloride		953	6.70	20.0	mg/L		100	CWW	01/17/25	2236	2736888	1
Sulfate		851	13.3	40.0	mg/L		100					
Fluoride	U	ND	0.0660	0.200	mg/L		2	CWW	01/18/25	2023	2736888	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

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Certificate of Analysis

Report Date: January 28, 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:	AG21155	Project:	SOOP00119
Sample ID:	704940004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	15-JAN-25 11:08		
Receive Date:	17-JAN-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"												
Chloride		471	6.70	20.0	mg/L		100	CWW	01/17/25	2308	2736888	1
Fluoride		0.552	0.165	0.500	mg/L		5	CWW	01/18/25	1257	2736888	2
Sulfate		3.73	0.665	2.00	mg/L		5					

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
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Certificate of Analysis

Report Date: January 28, 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:	AG21156	Project:	SOOP00119
Sample ID:	704940005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	15-JAN-25 12:23		
Receive Date:	17-JAN-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"												
Chloride		646	6.70	20.0	mg/L		100	CWW	01/17/25	2339	2736888	1
Sulfate		409	13.3	40.0	mg/L		100					
Fluoride	U	ND	0.0660	0.200	mg/L		2	CWW	01/18/25	2055	2736888	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: January 28, 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:	AG21157	Project:	SOOP00119
Sample ID:	704940006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	15-JAN-25 13:50		
Receive Date:	17-JAN-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"												
Sulfate		1060	13.3	40.0	mg/L		100	CWW	01/18/25	0115	2736888	1
Fluoride	U	ND	0.165	0.500	mg/L		5	CWW	01/18/25	1401	2736888	2
Chloride		1300	13.4	40.0	mg/L		200	CWW	01/18/25	1433	2736888	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

Certificate of Analysis

Report Date: January 28, 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:	AG21158	Project:	SOOP00119
Sample ID:	704940007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	15-JAN-25 14:56		
Receive Date:	17-JAN-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"												
Sulfate		1280	13.3	40.0	mg/L		100	CWW	01/18/25	0147	2736888	1
Fluoride	J	0.392	0.165	0.500	mg/L		5	CWW	01/18/25	1505	2736888	2
Chloride		1210	13.4	40.0	mg/L		200	CWW	01/18/25	1537	2736888	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

Certificate of Analysis

Report Date: January 28, 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:	AG21161	Project:	SOOP00119
Sample ID:	704940008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	15-JAN-25 16:14		
Receive Date:	17-JAN-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"												
Chloride		23.7	6.70	20.0	mg/L		100	CWW	01/18/25	0219	2736888	1
Fluoride		0.111	0.0330	0.100	mg/L		1	CWW	01/18/25	1608	2736888	2
Sulfate		5.20	0.133	0.400	mg/L		1					

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

QC Summary

Report Date: January 28, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **704940**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
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)		
Sulfate		76.9		76.4	mg/L	0.581			(0%-20%)		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	ND	mg/L						01/17/25 18:53
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						

QC Summary

Workorder: **704940**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2736888										
QC1205981052 704940001 PS										
Chloride	5.00	1.68		6.55	mg/L		97.4	(90%-110%)	CWW	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

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: **704940**

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.

General Chemistry

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
704940001	AG21151
704940002	AG21153
704940003	AG21154
704940004	AG21155
704940005	AG21156
704940006	AG21157
704940007	AG21158
704940008	AG21161
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), 704940001 (AG21151), 704940002 (AG21153), 704940003 (AG21154), 704940004 (AG21155), 704940005 (AG21156), 704940006 (AG21157), 704940007 (AG21158) and 704940008 (AG21161) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205981051 (AG21151DUP), 1205981052 (AG21151PS), 704940001 (AG21151), 704940003 (AG21154), 704940004 (AG21155), 704940005 (AG21156), 704940006 (AG21157) and 704940007 (AG21158) 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	704940							
	001	002	003	004	005	006	007	008
Chloride	100X	100X	100X	100X	100X	200X	200X	100X
Fluoride	5X	1X	2X	5X	2X	5X	5X	1X
Sulfate	100X	100X	100X	5X	100X	100X	100X	1X

Miscellaneous Information

Manual Integrations
Samples 1205981051 (AG21151DUP), 1205981052 (AG21151PS), 704940001 (AG21151), 704940004 (AG21155) and 704940008 (AG21161) were manually integrated to correctly position the baseline as set in the calibration standards.

Certification Statement

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

2/17/25 - KAD

704940

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 1/31/25 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 / JM02.08.602.3 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
AG21151	CAP-1	1/14/25	1340	MDG DGA	3	P	G	GW	1/2		2	1		
AG21153	CAP-3	1/14/25	1617	"	3	P	G	GW	1/2		2	1		
AG21154	CAP-4	1/15/25	0942	"	3	P	G	GW	1/2		2	1		
AG21155	CAP-5	1/15/25	1108	"	3	P	G	GW	1/2		2	1		
AG21156	CAP-6	1/15/25	1223	"	3	P	G	GW	1/2		2	1		
AG21157	CAP-7	1/15/25	1350	"	3	P	G	GW	1/2		2	1		
AG21158	CAP-8	1/15/25	1456	"	3	P	G	GW	1/2		2	1		
AG21161	CAP-10	1/15/25	1614	"	3	P	G	GW	1/2		2	1		
										EPA 300.0 - F, Cl, SO4				

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

Gypsum
- ☐ Wallboard
- ☐ AlM
- ☐ 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	0942
[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: 704940
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: 0c
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 MG Date 1/20/25 Page 1 of 1

List of current GEL Certifications as of 28 January 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

February 18, 2025

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

Re: ABS Lab Analytical
Work Order: 705193

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 21, 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/JM02.08.G02.36500
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: 705193 GEL Work Order: 705193

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 18, 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:	AG21159	Project:	SOOP00119
Sample ID:	705193001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JAN-25 09:54		
Receive Date:	21-JAN-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		4.46	0.165	0.500	mg/L		5	CH6	01/21/25	1521	2738098	1
Chloride		1090	13.4	40.0	mg/L		200	CH6	01/24/25	1524	2738098	2
Sulfate		771	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
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 18, 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:	AG21160	Project:	SOOP00119
Sample ID:	705193002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JAN-25 09:59		
Receive Date:	21-JAN-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		4.81	0.165	0.500	mg/L		5	CH6	01/21/25	1653	2738098	1
Chloride		1080	13.4	40.0	mg/L		200	CH6	01/24/25	1656	2738098	2
Sulfate		734	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
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 18, 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:	AG21164	Project:	SOOP00119
Sample ID:	705193003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JAN-25 14:08		
Receive Date:	21-JAN-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"												
Chloride		5.66	0.335	1.00	mg/L		5	CH6	01/21/25	1724	2738098	1
Sulfate		75.9	0.665	2.00	mg/L		5					
Fluoride	J	0.405	0.330	1.00	mg/L		10	CH6	01/24/25	1727	2738098	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

QC Summary

Report Date: February 18, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **705193**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2738098										
QC1205983601 705193001 DUP										
Chloride		1090		1080	mg/L	0.0737		(0%-20%)	CH6	01/24/25 15:54
Fluoride		4.46		4.76	mg/L	6.43		(0%-20%)		01/21/25 15:51
Sulfate		771		776	mg/L	0.683		(0%-20%)		01/24/25 15:54
QC1205983600 LCS										
Chloride	5.00			4.70	mg/L		94	(90%-110%)		01/21/25 14:50
Fluoride	2.50			2.42	mg/L		96.7	(90%-110%)		
Sulfate	10.0			9.63	mg/L		96.3	(90%-110%)		
QC1205983599 MB										
Chloride			U	0.0670	mg/L					01/21/25 14:20
Fluoride			U	0.0330	mg/L					
Sulfate			U	0.133	mg/L					
QC1205983602 705193001 PS										
Chloride	5.00	5.43		10.8	mg/L		106	(90%-110%)		01/24/25 16:25
Fluoride	2.50	0.892		3.44	mg/L		102	(90%-110%)		01/21/25 16:22
Sulfate	10.0	3.85		13.1	mg/L		92.6	(90%-110%)		01/24/25 16:25

QC Summary

Workorder: **705193**

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

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.
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 18, 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:	AG21159	Project:	SOOP00119
Sample ID:	705193001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JAN-25 09:54		
Receive Date:	21-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		3.72	+/-0.730	0.613	1.00	pCi/L			ST2	02/05/25	1110	2738525	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.870	+/-0.418	0.417	1.00	pCi/L			MJ2	02/13/25	1054	2738867	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"			63.8	(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: February 18, 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:	AG21160	Project:	SOOP00119
Sample ID:	705193002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JAN-25 09:59		
Receive Date:	21-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		4.36	+/-0.958	0.948	1.00	pCi/L			ST2	02/05/25	1110	2738525	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.845	+/-0.412	0.359	1.00	pCi/L			MJ2	02/13/25	1054	2738867	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"			48.9	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor
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 18, 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:	AG21164	Project:	SOOP00119
Sample ID:	705193003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JAN-25 14:08		
Receive Date:	21-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	0.632	+/-0.480	0.757	1.00	pCi/L			ST2	02/05/25	1110	2738525	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.835	+/-0.384	0.320	1.00	pCi/L			MJ2	02/13/25	1054	2738867	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	(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 18, 2025

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

Workorder: **705193**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2738525										
QC1205984347 705193001 DUP										
Radium-228		3.72		2.80	pCi/L	28.2 *		(0%-20%)	ST2	02/05/25 11:10
	Uncertainty	+/-0.730		+/-0.654						
QC1205984348 LCS										
Radium-228	28.5			31.1	pCi/L		109	(75%-125%)		02/05/25 11:10
	Uncertainty			+/-1.77						
QC1205984346 MB										
Radium-228			U	0.521	pCi/L					02/05/25 11:10
	Uncertainty			+/-0.456						
Rad Ra-226										
Batch 2738867										
QC1205984875 705193003 DUP										
Radium-226		0.835		1.28	pCi/L	42.3		(0% - 100%)	MJ2	02/13/25 10:54
	Uncertainty	+/-0.384		+/-0.508						
QC1205984877 LCS										
Radium-226	27.4			28.9	pCi/L		105	(75%-125%)		02/13/25 10:53
	Uncertainty			+/-2.34						
QC1205984874 MB										
Radium-226			U	0.0500	pCi/L					02/13/25 10:54
	Uncertainty			+/-0.379						
QC1205984876 705193003 MS										
Radium-226	135	0.835		130	pCi/L		95.7	(75%-125%)		02/13/25 10:54
	Uncertainty	+/-0.384		+/-9.93						

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: **705193**

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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2738098

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

GEL Sample ID#	Client Sample Identification
705193001	AG21159
705193002	AG21160
705193003	AG21164
1205983599	Method Blank (MB)
1205983600	Laboratory Control Sample (LCS)
1205983601	705193001(AG21159) Sample Duplicate (DUP)
1205983602	705193001(AG21159) 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 1205983601 (AG21159DUP), 1205983602 (AG21159PS), 705193001 (AG21159) and 705193002 (AG21160) were diluted because target analyte concentrations exceeded the calibration range. The following sample 705193003 (AG21164) in this sample group was diluted due to matrix interference. Samples 1205983601 (AG21159DUP), 1205983602 (AG21159PS), 705193001 (AG21159), 705193002 (AG21160) and 705193003 (AG21164) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	705193		
	001	002	003
Chloride	200X	200X	5X
Fluoride	5X	5X	10X
Sulfate	200X	200X	5X

Miscellaneous Information

Manual Integrations
Samples 1205983601 (AG21159DUP), 1205983602 (AG21159PS), 705193001 (AG21159), 705193002 (AG21160)

and 705193003 (AG21164) 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: 2738525

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

GEL Sample ID#	Client Sample Identification
705193001	AG21159
705193002	AG21160
705193003	AG21164
1205984346	Method Blank (MB)
1205984347	705193001(AG21159) Sample Duplicate (DUP)
1205984348	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205984347 (AG21159DUP)	Radium-228	RPD 28.2* (0.00%-20.00%) RER 1.17 (0-3)

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2738867

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

GEL Sample ID#	Client Sample Identification
705193001	AG21159
705193002	AG21160

705193003	AG21164
1205984874	Method Blank (MB)
1205984875	705193003(AG21164) Sample Duplicate (DUP)
1205984876	705193003(AG21164) Matrix Spike (MS)
1205984877	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, 1205984876 (AG21164MS), 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.

KAN-1101

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2/3/25 705193

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/JM02.08.602.3/36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4		
A-621159	CAP-9	1/16/25	0954	MDG/DLA	3	P	G	GW	1/2		X	X		
A-621160	CAP-9 Dup	1/16/25	0959	"	3	P	G	GW	1/2		X	X		
A-621164	CAP-13	1/16/25	1408	"	3	P	G	GW	1/2		X	X		
										EPA 300.0 - F, Cl, SO4				

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	1/21/25	1120
[signature]	GEL	[signature]	GEL	1.21.25	1245

Sample Receiving (Internal Use Only)

TEMP (°C): 0°

Initials: _____

Correct pH: Yes No

Preservative Lot #:

Lot# D104501J
SW: 1000-1902-QC-10.0N20
RAD 226/228

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-lime, 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: SOP | SDG/AR/COC/Work Order: 705193 | GEL PM: JR

Received By: CLM | Date Received at GEL: 1/21/25

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	0°				

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)
11	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	Used both Client and 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 1/27/25

Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 18 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

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: 729235

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: 729235 GEL Work Order: 729235

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

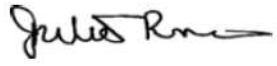
** Analyte is a surrogate compound

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:	AG34902	Project:	SOOP00119
Sample ID:	729235001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 10:03		
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	U	0.211	+/-0.430	0.754	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.781	+/-0.380	0.332	1.00	pCi/L			RS2	07/03/25	1051	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"			90.1	(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

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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:	AG34898	Project:	SOOP00119
Sample ID:	729235002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 11:13		
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	0.206	+/-0.432	0.763	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.537	+/-0.371	0.468	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"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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:	AG34903	Project:	SOOP00119
Sample ID:	729235003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 12:11		
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	0.352	+/-0.472	0.807	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.308	+/-0.238	0.294	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"			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
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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:	AG34910	Project:	SOOP00119
Sample ID:	729235004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 13:08		
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	U	0.446	+/-0.370	0.588	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.340	+/-0.343	0.537	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"			75.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: 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:	AG34847	Project:	SOOP00119
Sample ID:	729235005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 14:14		
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	U	0.113	+/-0.420	0.760	1.00	pCi/L			JE1	07/08/25	0834	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.443	+/-0.344	0.496	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"			81.5	(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

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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:	AG34908	Project:	SOOP00119
Sample ID:	729235006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 15:13		
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		0.665	+/-0.327	0.460	1.00	pCi/L			JE1	07/08/25	0834	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.449	+/-0.352	0.496	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"			91	(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:	AG34909	Project:	SOOP00119
Sample ID:	729235007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 16:16		
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		0.902	+/-0.515	0.787	1.00	pCi/L			JE1	07/08/25	0834	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.903	+/-0.447	0.455	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"			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

QC Summary

Report Date: July 9, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **729235**

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: **729235**

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 #: 729235

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
729235001	AG34902
729235002	AG34898
729235003	AG34903
729235004	AG34910
729235005	AG34847
729235006	AG34908
729235007	AG34909
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
729235001	AG34902
729235002	AG34898
729235003	AG34903
729235004	AG34910
729235005	AG34847

729235006	AG34908
729235007	AG34909
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 lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody 729235

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 / 36500

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			
AG34902	CCMAP-6	6/12/25	1003	AGP EA	2	P	G	GW	2		2			
AG34898	CCMAP-3		1113											
AG34903	CCMAP-7		1211											
AG34910	CCMAP-14		1308											
AG34847	CCMAP-2		1414											
AG34908	CCMAP-12		1513											
AG34909	CCMAP-13		1616											

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TKN
- ☐ NH3
- ☐ TP
- ☐ TCN
- ☐ NO2+3
- ☐ TN
- ☐ NO3
- ☐ SO4

Gypsum
- ☐ Wallboard
- ☐ Alkalinity
- ☐ Ca
- ☐ Chloride
- ☐ Color
- ☐ Fluoride
- ☐ Free Moisture
- ☐ Hydroxide
- ☐ Magnesium
- ☐ Moisture
- ☐ Sodium
- ☐ pH
- ☐ Phosphate
- ☐ Purity
- ☐ Silica
- ☐ Sulfate
- ☐ 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
- ☐ Boiler Oil
- ☐ Ash
- ☐ Color
- ☐ Density
- ☐ Flash
- ☐ Moisture
- ☐ Pour Point
- ☐ Sediment
- ☐ Sulfur
- ☐ Viscosity
- ☐ Used Oil
- ☐ Flash Point
- ☐ Metals
- ☐ Water
- ☐ 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
- ☐ As
- ☐ B
- ☐ Ba
- ☐ Be
- ☐ Cd
- ☐ Co
- ☐ Cr
- ☐ Cu
- ☐ Fe
- ☐ K
- ☐ Li
- ☐ Mg
- ☐ Mn
- ☐ Mo
- ☐ Na
- ☐ Ni
- ☐ P
- ☐ Pb
- ☐ Sb
- ☐ Se
- ☐ Si
- ☐ Sn
- ☐ Sr
- ☐ Ti
- ☐ V
- ☐ Zn
- ☐ Hg
- ☐ CVAF
- ☐ DRP
- ☐ Soil
- ☐ RCRA (As, Ba, Cd, Cr, Pb, Se, Ag)

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	[signature]	GEL	6/17/25	0938
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	GEL	[signature]	GEL	6.17.25	1600
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-HNO3 2-NaOH 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: 729235	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 (le radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le 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 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 02, 2025

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

Re: ABS Lab Analytical
Work Order: 706875

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 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/JM02.09.G01.1/36500
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: 706875 GEL Work Order: 706875

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

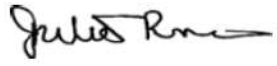
J Value is estimated

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 

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

Certificate of Analysis

Report Date: March 2, 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:	AG21210	Project:	SOOP00119
Sample ID:	706875001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 09:28		
Receive Date:	31-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	J	0.394	0.330	1.00	mg/L		1	KB3	02/03/25	1846	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0679	0.0330	0.100	mg/L		1	CH6	02/01/25	2306	2743199	2
Sulfate		0.912	0.133	0.400	mg/L		1					
Chloride		20.0	0.335	1.00	mg/L		5	CH6	02/03/25	1140	2743199	3
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	0937	2743403	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: March 2, 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:	AG21211	Project:	SOOP00119
Sample ID:	706875002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 09:33		
Receive Date:	31-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	J	0.413	0.330	1.00	mg/L		1	KB3	02/03/25	1957	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0709	0.0330	0.100	mg/L		1	CH6	02/02/25	0039	2743199	2
Sulfate		0.873	0.133	0.400	mg/L		1					
Chloride		21.9	0.335	1.00	mg/L		5	CH6	02/03/25	1313	2743199	3
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	0938	2743403	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

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Certificate of Analysis

Report Date: March 2, 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:	AG21177	Project:	SOOP00119
Sample ID:	706875003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 09:20		
Receive Date:	31-JAN-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"												
Chloride		4.98	0.0670	0.200	mg/L		1	CH6	02/02/25	0211	2743199	1
Fluoride	J	0.0528	0.0330	0.100	mg/L		1					
Sulfate		1.11	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21175	Project:	SOOP00119
Sample ID:	706875004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 10:11		
Receive Date:	31-JAN-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"												
Chloride		4.73	0.0670	0.200	mg/L		1	CH6	02/02/25	0242	2743199	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		0.492	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21178	Project:	SOOP00119
Sample ID:	706875005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 11:16		
Receive Date:	31-JAN-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"												
Chloride		6.00	0.0670	0.200	mg/L		1	CH6	02/02/25	0415	2743199	1
Fluoride	J	0.0559	0.0330	0.100	mg/L		1					
Sulfate		1.14	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21167	Project:	SOOP00119
Sample ID:	706875006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 12:40		
Receive Date:	31-JAN-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"												
Chloride		5.61	0.0670	0.200	mg/L		1	CH6	02/02/25	0446	2743199	1
Fluoride	J	0.0674	0.0330	0.100	mg/L		1					
Sulfate		1.33	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21168	Project:	SOOP00119
Sample ID:	706875007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 13:47		
Receive Date:	31-JAN-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"												
Chloride		5.91	0.0670	0.200	mg/L		1	CH6	02/02/25	0516	2743199	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		0.893	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21204	Project:	SOOP00119
Sample ID:	706875008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 15:35		
Receive Date:	31-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	J	0.392	0.330	1.00	mg/L		1	KB3	02/03/25	2021	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Chloride		5.08	0.0670	0.200	mg/L		1	CH6	02/02/25	0547	2743199	2
Fluoride	J	0.0708	0.0330	0.100	mg/L		1					
Sulfate		1.73	0.133	0.400	mg/L		1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	0940	2743403	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 300.0	
3	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

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

Certificate of Analysis

Report Date: March 2, 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:	AG21208	Project:	SOOP00119
Sample ID:	706875009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 12:16		
Receive Date:	31-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		2.66	0.330	1.00	mg/L		1	KB3	02/03/25	2044	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0955	0.0330	0.100	mg/L		1	CH6	02/02/25	0618	2743199	2
Chloride		699	13.4	40.0	mg/L		200	CH6	02/03/25	1445	2743199	3
Sulfate		613	26.6	80.0	mg/L		200					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	0941	2743403	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: March 2, 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:	AG21212	Project:	SOOP00119
Sample ID:	706875010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 10:12		
Receive Date:	31-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		1.33	0.330	1.00	mg/L		1	KB3	02/03/25	2108	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0668	0.0330	0.100	mg/L		1	CH6	02/02/25	0649	2743199	2
Chloride		904	13.4	40.0	mg/L		200	CH6	02/03/25	1516	2743199	3
Sulfate		45.0	1.33	4.00	mg/L		10	CH6	02/03/25	1547	2743199	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	0942	2743403	5

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	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

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Certificate of Analysis

Report Date: March 2, 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:	AG21207	Project:	SOOP00119
Sample ID:	706875011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 10:56		
Receive Date:	31-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		2.68	0.330	1.00	mg/L		1	KB3	02/03/25	2132	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.169	0.0330	0.100	mg/L		1	CH6	02/02/25	0720	2743199	2
Chloride		337	6.70	20.0	mg/L		100	CH6	02/03/25	1618	2743199	3
Sulfate		139	13.3	40.0	mg/L		100					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	0943	2743403	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

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Report Date: March 2, 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:	AG21209	Project:	SOOP00119
Sample ID:	706875012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 13:39		
Receive Date:	31-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		2.99	0.330	1.00	mg/L		1	KB3	02/03/25	2156	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0813	0.0330	0.100	mg/L		1	CH6	02/02/25	0751	2743199	2
Chloride		369	6.70	20.0	mg/L		100	CH6	02/03/25	1750	2743199	3
Sulfate		553	13.3	40.0	mg/L		100					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1044	2743403	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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG21206	Project:	SOOP00119
Sample ID:	706875013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 14:39		
Receive Date:	31-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		2.19	0.330	1.00	mg/L		1	KB3	02/03/25	2220	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.151	0.0330	0.100	mg/L		1	CH6	02/02/25	0822	2743199	2
Chloride		7.11	0.0670	0.200	mg/L		1	CH6	02/03/25	1821	2743199	3
Sulfate		75.4	1.33	4.00	mg/L		10	CH6	02/03/25	1852	2743199	4
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1045	2743403	5

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SM 5310 B	
2	EPA 300.0	
3	EPA 300.0	
4	EPA 300.0	
5	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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG21188	Project:	SOOP00119
Sample ID:	706875014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 11:39		
Receive Date:	31-JAN-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"												
Chloride		6.04	0.0670	0.200	mg/L		1	CH6	02/02/25	0853	2743199	1
Fluoride	J	0.0782	0.0330	0.100	mg/L		1					
Sulfate		3.98	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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

Client Sample ID:	AG21187	Project:	SOOP00119
Sample ID:	706875015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 12:39		
Receive Date:	31-JAN-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"												
Chloride		8.06	0.0670	0.200	mg/L		1	CH6	02/02/25	1025	2743199	1
Fluoride	J	0.0608	0.0330	0.100	mg/L		1					
Sulfate		8.40	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG21189	Project:	SOOP00119
Sample ID:	706875016	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 13:43		
Receive Date:	31-JAN-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"												
Chloride		5.11	0.0670	0.200	mg/L		1	CH6	02/02/25	1056	2743199	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		0.436	0.133	0.400	mg/L		1					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG21176	Project:	SOOP00119
Sample ID:	706875017	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 14:47		
Receive Date:	31-JAN-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	0.0605	0.0330	0.100	mg/L		1	CH6	02/02/25	1127	2743199	1
Sulfate		0.729	0.133	0.400	mg/L		1					
Chloride		12.2	0.670	2.00	mg/L		10	CH6	02/03/25	1923	2743199	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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG21173	Project:	SOOP00119
Sample ID:	706875018	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 15:29		
Receive Date:	31-JAN-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"												
Chloride		1.28	0.0670	0.200	mg/L		1	CH6	02/02/25	1158	2743199	1
Fluoride		0.364	0.0330	0.100	mg/L		1					
Sulfate		57.1	1.33	4.00	mg/L		10	CH6	02/03/25	1954	2743199	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

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Company :	Santee Cooper
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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AG21169	Project:	SOOP00119
Sample ID:	706875019	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	21-JAN-25 10:10		
Receive Date:	31-JAN-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	0.0736	0.0330	0.100	mg/L		1	CH6	02/02/25	1229	2743199	1
Chloride		1190	13.4	40.0	mg/L		200	CH6	02/03/25	2025	2743199	2
Sulfate		1330	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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Client Sample ID:	AG21174	Project:	SOOP00119
Sample ID:	706875020	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	21-JAN-25 11:19		
Receive Date:	31-JAN-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"												
Chloride		8.71	0.134	0.400	mg/L		2	CH6	02/03/25	2056	2743199	1
Fluoride	J	0.162	0.0660	0.200	mg/L		2					
Sulfate		1.62	0.266	0.800	mg/L		2					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	

Notes:

Column headers are defined as follows:

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

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Report Date: March 2, 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:	AG21181	Project:	SOOP00119
Sample ID:	706875021	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	21-JAN-25 12:17		
Receive Date:	31-JAN-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	0.0692	0.0330	0.100	mg/L		1	CH6	02/02/25	0058	2743200	1
Sulfate		1.87	0.133	0.400	mg/L		1					
Chloride		13.0	0.134	0.400	mg/L		2	CH6	02/03/25	1154	2743200	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

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

Client Sample ID:	AG21198	Project:	SOOP00119
Sample ID:	706875022	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 09:19		
Receive Date:	31-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		2.36	0.330	1.00	mg/L		1	KB3	02/03/25	2303	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.117	0.0330	0.100	mg/L		1	CH6	02/02/25	0129	2743200	2
Chloride		29.4	1.34	4.00	mg/L		20	CH6	02/03/25	1225	2743200	3
Sulfate		191	2.66	8.00	mg/L		20					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1047	2743403	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

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

Client Sample ID:	AG21199	Project:	SOOP00119
Sample ID:	706875023	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 09:24		
Receive Date:	31-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		2.62	0.330	1.00	mg/L		1	KB3	02/03/25	2327	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.112	0.0330	0.100	mg/L		1	CH6	02/02/25	0200	2743200	2
Chloride		29.3	1.34	4.00	mg/L		20	CH6	02/03/25	1255	2743200	3
Sulfate		190	2.66	8.00	mg/L		20					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1050	2743403	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

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

Client Sample ID:	AG21200	Project:	SOOP00119
Sample ID:	706875024	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 10:39		
Receive Date:	31-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		1.36	0.330	1.00	mg/L		1	KB3	02/03/25	2351	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0488	0.0330	0.100	mg/L		1	CH6	02/02/25	0231	2743200	2
Chloride		93.9	1.34	4.00	mg/L		20	CH6	02/03/25	1326	2743200	3
Sulfate		22.0	2.66	8.00	mg/L		20					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1051	2743403	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

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

Client Sample ID:	AG21201	Project:	SOOP00119
Sample ID:	706875025	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 12:12		
Receive Date:	31-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		2.25	0.330	1.00	mg/L		1	KB3	02/04/25	0015	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride		0.194	0.0330	0.100	mg/L		1	CH6	02/02/25	0404	2743200	2
Chloride		22.5	1.34	4.00	mg/L		20	CH6	02/03/25	1357	2743200	3
Sulfate		205	2.66	8.00	mg/L		20					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1053	2743403	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

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Certificate of Analysis

Report Date: March 2, 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:	AG21202	Project:	SOOP00119
Sample ID:	706875026	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 13:35		
Receive Date:	31-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		1.63	0.330	1.00	mg/L		1	KB3	02/04/25	0038	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	J	0.0538	0.0330	0.100	mg/L		1	CH6	02/02/25	0434	2743200	2
Chloride		93.3	1.34	4.00	mg/L		20	CH6	02/03/25	1428	2743200	3
Sulfate		31.9	2.66	8.00	mg/L		20					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1054	2743403	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

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Certificate of Analysis

Report Date: March 2, 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:	AG21203	Project:	SOOP00119
Sample ID:	706875027	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	27-JAN-25 14:54		
Receive Date:	31-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		1.69	0.330	1.00	mg/L		1	KB3	02/04/25	0102	2743526	1
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Fluoride	U	0.0330	0.0330	0.100	mg/L		1	CH6	02/02/25	0505	2743200	2
Chloride		167	3.35	10.0	mg/L		50	CH6	02/03/25	1459	2743200	3
Sulfate		254	6.65	20.0	mg/L		50					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	0.0350	0.0350	0.100	mg/L		5	JLD1	02/03/25	1055	2743403	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: March 2, 2025

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **706875**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Carbon Analysis												
Batch 2743526												
QC1205993096 706875001 DUP												
Total Organic Carbon Average		J	0.394	J	0.369	mg/L	6.55	^		(+/-1.00)	KB3	02/03/25 19:09
QC1205993093 LCS												
Total Organic Carbon Average	10.0				9.96	mg/L			99.6	(80%-120%)		02/03/25 14:20
QC1205993092 MB												
Total Organic Carbon Average				U	0.330	mg/L						02/03/25 14:12
QC1205993097 706875001 PS												
Total Organic Carbon Average	10.0	J	0.394		10.4	mg/L			99.7	(65%-120%)		02/03/25 19:33
Ion Chromatography												
Batch 2743199												
QC1205992458 706875001 DUP												
Chloride			20.0		20.0	mg/L	0.23			(0%-20%)	CH6	02/03/25 12:11
Fluoride		J	0.0679	J	0.0672	mg/L	1.04	^		(+/-0.100)		02/01/25 23:37
Sulfate			0.912		0.867	mg/L	5.04	^		(+/-0.400)		
QC1205992460 706875002 DUP												
Chloride			21.9		21.9	mg/L	0.0638			(0%-20%)		02/03/25 13:43
Fluoride		J	0.0709	J	0.0667	mg/L	6.1	^		(+/-0.100)		02/02/25 01:10
Sulfate			0.873		0.882	mg/L	1.03	^		(+/-0.400)		

QC Summary

Workorder: 706875

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2743199											
QC1205992457 LCS											
Chloride	5.00				4.57	mg/L		91.4	(90%-110%)	CH6	02/01/25 22:35
Fluoride	2.50				2.36	mg/L		94.5	(90%-110%)		
Sulfate	10.0				9.33	mg/L		93.3	(90%-110%)		
QC1205992456 MB											
Chloride				U	0.0670	mg/L					02/01/25 22:04
Fluoride				U	0.0330	mg/L					
Sulfate				U	0.133	mg/L					
QC1205992459 706875001 PS											
Chloride	5.00		4.01		9.14	mg/L		103	(90%-110%)		02/03/25 12:42
Fluoride	2.50	J	0.0679		2.55	mg/L		99.2	(90%-110%)		02/02/25 00:08
Sulfate	10.0		0.912		10.3	mg/L		94.2	(90%-110%)		
QC1205992461 706875002 PS											
Chloride	5.00		4.39		9.51	mg/L		102	(90%-110%)		02/03/25 14:14
Fluoride	2.50	J	0.0709		2.61	mg/L		101	(90%-110%)		02/02/25 01:40
Sulfate	10.0		0.873		10.7	mg/L		98.3	(90%-110%)		
Batch 2743200											
QC1205992466 706875027 DUP											
Chloride			167		167	mg/L	0.009		(0%-20%)	CH6	02/03/25 15:30

QC Summary

Workorder: 706875

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2743200											
Fluoride		U	0.0330	U	0.0330	mg/L	N/A			CH6	02/02/25 05:36
Sulfate			254		253	mg/L	0.437		(0%-20%)		02/03/25 15:30
QC1205992463 LCS											
Chloride	5.00				4.70	mg/L		94	(90%-110%)		02/01/25 15:09
Fluoride	2.50				2.37	mg/L		95	(90%-110%)		
Sulfate	10.0				9.63	mg/L		96.3	(90%-110%)		
QC1205992462 MB											
Chloride				U	0.0670	mg/L					02/01/25 14:38
Fluoride				U	0.0330	mg/L					
Sulfate				U	0.133	mg/L					
QC1205992467 706875027 PS											
Chloride	5.00		3.33		8.47	mg/L		103	(90%-110%)		02/03/25 16:01
Fluoride	2.50	U	0.000		2.49	mg/L		99.5	(90%-110%)		02/02/25 06:07
Sulfate	10.0		5.09		15.1	mg/L		99.8	(90%-110%)		02/03/25 16:01
Nutrient Analysis											
Batch 2743403											
QC1205992913 706875022 DUP											
Nitrogen, Nitrate/Nitrite		U	0.0350	U	0.0350	mg/L	N/A			JLD1	02/03/25 10:48

QC Summary

Workorder: **706875**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Nutrient Analysis											
Batch 2743403											
QC1205992910 LCS											
Nitrogen, Nitrate/Nitrite	1.00				0.986	mg/L		98.6	(90%-110%)	JLD1	02/03/25 09:36
QC1205992909 MB											
Nitrogen, Nitrate/Nitrite				U	0.00700	mg/L					02/03/25 08:58
QC1205992914 706875022 PS											
Nitrogen, Nitrate/Nitrite	1.00	U	-0.00174		0.991	mg/L		99.1	(90%-110%)		02/03/25 10:49

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.
- 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.

QC Summary

Workorder: **706875**

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.

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Certificate of Analysis

Report Date: March 2, 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:	AG21210	Project:	SOOP00119
Sample ID:	706875001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 09:28		
Receive Date:	31-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	0.715	+/-0.718	1.17	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.01	+/-0.484	0.483	1.00	pCi/L			MJ2	03/02/25	0723	2743208	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"			44.1	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21211	Project:	SOOP00119
Sample ID:	706875002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 09:33		
Receive Date:	31-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		1.09	+/-0.614	0.866	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.614	+/-0.298	0.323	1.00	pCi/L			MJ2	03/02/25	0723	2743208	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"			48.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21177	Project:	SOOP00119
Sample ID:	706875003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 09:20		
Receive Date:	31-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		1.10	+/-0.643	0.922	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.338	+/-0.310	0.468	1.00	pCi/L			MJ2	03/02/25	0723	2743208	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"			45.8	(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
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Certificate of Analysis

Report Date: March 2, 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:	AG21175	Project:	SOOP00119
Sample ID:	706875004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 10:11		
Receive Date:	31-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	0.261	+/-0.479	0.853	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.286	+/-0.194	0.219	1.00	pCi/L			MJ2	03/02/25	0722	2743208	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"			51.8	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21178	Project:	SOOP00119
Sample ID:	706875005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 11:16		
Receive Date:	31-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	0.364	+/-0.541	0.938	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.456	+/-0.406	0.634	1.00	pCi/L			MJ2	03/02/25	0722	2743208	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"			49.5	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21167	Project:	SOOP00119
Sample ID:	706875006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 12:40		
Receive Date:	31-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		1.10	+/-0.634	0.919	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.04	+/-0.383	0.367	1.00	pCi/L			MJ2	03/02/25	0722	2743208	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"			52.3	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21168	Project:	SOOP00119
Sample ID:	706875007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	30-JAN-25 13:47		
Receive Date:	31-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	-0.115	+/-0.409	0.828	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.554	+/-0.270	0.235	1.00	pCi/L			MJ2	03/02/25	0722	2743208	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"			58.8	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21212	Project:	SOOP00119
Sample ID:	706875010	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 10:12		
Receive Date:	31-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	0.614	+/-0.573	0.934	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.446	+/-0.327	0.448	1.00	pCi/L			MJ2	03/02/25	0722	2743208	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"			56	(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

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Report Date: March 2, 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:	AG21207	Project:	SOOP00119
Sample ID:	706875011	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 10:56		
Receive Date:	31-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	0.524	+/-0.721	1.24	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.31	+/-0.429	0.265	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			42.4	(15%-125%)

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

Column headers are defined as follows:

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

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Report Date: March 2, 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:	AG21209	Project:	SOOP00119
Sample ID:	706875012	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 13:39		
Receive Date:	31-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	0.942	+/-0.741	1.17	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.847	+/-0.370	0.375	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			45.2	(15%-125%)

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

Column headers are defined as follows:

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

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Report Date: March 2, 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:	AG21206	Project:	SOOP00119
Sample ID:	706875013	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	28-JAN-25 14:39		
Receive Date:	31-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	0.523	+/-0.561	0.934	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.472	+/-0.303	0.328	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			57.2	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21188	Project:	SOOP00119
Sample ID:	706875014	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 11:39		
Receive Date:	31-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	0.382	+/-0.569	0.984	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.381	+/-0.249	0.304	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			55.4	(15%-125%)

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

Column headers are defined as follows:

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

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Report Date: March 2, 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:	AG21187	Project:	SOOP00119
Sample ID:	706875015	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 12:39		
Receive Date:	31-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	0.481	+/-0.684	1.17	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.790	+/-0.424	0.542	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			49.7	(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

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Report Date: March 2, 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:	AG21189	Project:	SOOP00119
Sample ID:	706875016	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 13:43		
Receive Date:	31-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	0.513	+/-0.720	1.24	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.00	+/-0.391	0.408	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			48.3	(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

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Report Date: March 2, 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:	AG21176	Project:	SOOP00119
Sample ID:	706875017	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 14:47		
Receive Date:	31-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	1.00	+/-0.806	1.30	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.609	+/-0.301	0.307	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			43.3	(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

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Certificate of Analysis

Report Date: March 2, 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:	AG21173	Project:	SOOP00119
Sample ID:	706875018	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	29-JAN-25 15:29		
Receive Date:	31-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		1.83	+/-0.722	1.01	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.278	+/-0.281	0.440	1.00	pCi/L			MJ2	03/02/25	0755	2743208	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"			55.6	(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

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Report Date: March 2, 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:	AG21169	Project:	SOOP00119
Sample ID:	706875019	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	21-JAN-25 10:10		
Receive Date:	31-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		1.24	+/-0.733	1.12	1.00	pCi/L			DH1	02/26/25	1452	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.714	+/-0.324	0.311	1.00	pCi/L			MJ2	03/02/25	0834	2743208	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"			51.5	(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

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Report Date: March 2, 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:	AG21174	Project:	SOOP00119
Sample ID:	706875020	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	21-JAN-25 11:19		
Receive Date:	31-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	0.958	+/-0.692	1.11	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.516	+/-0.259	0.232	1.00	pCi/L			MJ2	03/02/25	0834	2743208	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"			52.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 2, 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:	AG21181	Project:	SOOP00119
Sample ID:	706875021	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	21-JAN-25 12:17		
Receive Date:	31-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	0.731	+/-0.708	1.17	1.00	pCi/L			DH1	02/26/25	1448	2743620	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.823	+/-0.424	0.479	1.00	pCi/L			MJ2	03/02/25	0834	2743208	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"			48.7	(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

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QC Summary

Report Date: March 2, 2025

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

Workorder: **706875**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2743620										
QC1205993350 706875001 DUP										
Radium-228	U	0.715	U	0.468	pCi/L	N/A		N/A	DH1	02/26/25 14:47
	Uncertainty	+/-0.718		+/-0.631						
QC1205993351 LCS										
Radium-228	28.5			22.0	pCi/L		77	(75%-125%)		02/26/25 14:52
	Uncertainty			+/-1.74						
QC1205993349 MB										
Radium-228			U	-0.0909	pCi/L					02/26/25 14:47
	Uncertainty			+/-0.487						
Rad Ra-226										
Batch 2743208										
QC1205992499 706875001 DUP										
Radium-226		1.01		0.837	pCi/L	18.5		(0% - 100%)	MJ2	03/02/25 08:34
	Uncertainty	+/-0.484		+/-0.442						
QC1205992501 LCS										
Radium-226	27.2			20.9	pCi/L		77	(75%-125%)		03/02/25 08:33
	Uncertainty			+/-1.62						
QC1205992498 MB										
Radium-226			U	0.177	pCi/L					03/02/25 08:34
	Uncertainty			+/-0.245						
QC1205992500 706875001 MS										
Radium-226	271	1.01		239	pCi/L		87.8	(75%-125%)		03/02/25 08:33
	Uncertainty	+/-0.484		+/-12.1						

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: **706875**

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.

General Chemistry

Product: **Carbon, Total Organic**
Analytical Method: SM 5310 B
Analytical Procedure: GL-GC-E-093 REV# 22
Analytical Batch: 2743526

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

GEL Sample ID#	Client Sample Identification
706875001	AG21210
706875002	AG21211
706875008	AG21204
706875009	AG21208
706875010	AG21212
706875011	AG21207
706875012	AG21209
706875013	AG21206
706875022	AG21198
706875023	AG21199
706875024	AG21200
706875025	AG21201
706875026	AG21202
706875027	AG21203
1205993092	Method Blank (MB)
1205993093	Laboratory Control Sample (LCS)
1205993096	706875001(AG21210) Sample Duplicate (DUP)
1205993097	706875001(AG21210) 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: 2743199

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

GEL Sample ID#	Client Sample Identification
706875001	AG21210
706875002	AG21211

706875003	AG21177
706875004	AG21175
706875005	AG21178
706875006	AG21167
706875007	AG21168
706875008	AG21204
706875009	AG21208
706875010	AG21212
706875011	AG21207
706875012	AG21209
706875013	AG21206
706875014	AG21188
706875015	AG21187
706875016	AG21189
706875017	AG21176
706875018	AG21173
706875019	AG21169
706875020	AG21174
1205992456	Method Blank (MB)
1205992457	Laboratory Control Sample (LCS)
1205992458	706875001(AG21210) Sample Duplicate (DUP)
1205992459	706875001(AG21210) Post Spike (PS)
1205992460	706875002(AG21211) Sample Duplicate (DUP)
1205992461	706875002(AG21211) 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 1205992458 (AG21210DUP), 1205992459 (AG21210PS), 1205992460 (AG21211DUP), 1205992461 (AG21211PS), 706875001 (AG21210), 706875002 (AG21211), 706875009 (AG21208), 706875010 (AG21212), 706875011 (AG21207), 706875012 (AG21209), 706875013 (AG21206), 706875017 (AG21176), 706875018 (AG21173) and 706875019 (AG21169) were diluted because target analyte concentrations exceeded the calibration range. The following sample 706875020 (AG21174) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	706875									
	001	**002**	**009**	**010**	**011**	**012**	**013**	**017**	**018**	**019**
Chloride	5X	5X	200X	200X	100X	100X	1X	10X	1X	200X
Sulfate	1X	1X	200X	10X	100X	100X	10X	1X	10X	200X

Analyte	706875
	020
Chloride	2X
Fluoride	2X
Sulfate	2X

Sample Re-analysis
Samples 706875013 (AG21206) and 706875020 (AG21174) were re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported.

Miscellaneous Information

Manual Integrations
Samples 1205992458 (AG21210DUP), 1205992460 (AG21211DUP), 706875001 (AG21210), 706875002 (AG21211), 706875003 (AG21177), 706875005 (AG21178), 706875006 (AG21167), 706875008 (AG21204), 706875009 (AG21208), 706875010 (AG21212), 706875011 (AG21207), 706875012 (AG21209), 706875013 (AG21206), 706875014 (AG21188), 706875015 (AG21187), 706875017 (AG21176), 706875019 (AG21169) and 706875020 (AG21174) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: Ion Chromatography
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2743200

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

GEL Sample ID#	Client Sample Identification
706875021	AG21181
706875022	AG21198
706875023	AG21199
706875024	AG21200
706875025	AG21201
706875026	AG21202
706875027	AG21203
1205992462	Method Blank (MB)
1205992463	Laboratory Control Sample (LCS)
1205992466	706875027(AG21203) Sample Duplicate (DUP)
1205992467	706875027(AG21203) 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 1205992466 (AG21203DUP), 1205992467 (AG21203PS), 706875021 (AG21181), 706875022 (AG21198), 706875023 (AG21199), 706875024 (AG21200), 706875025 (AG21201), 706875026 (AG21202) and 706875027 (AG21203) 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	706875						
	021	022	023	024	025	026	027

Chloride	2X	20X	20X	20X	20X	20X	50X
Sulfate	1X	20X	20X	20X	20X	20X	50X

Miscellaneous Information

Manual Integrations
Sample 706875024 (AG21200) was 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: 2743403

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

GEL Sample ID#	Client Sample Identification
706875001	AG21210
706875002	AG21211
706875008	AG21204
706875009	AG21208
706875010	AG21212
706875011	AG21207
706875012	AG21209
706875013	AG21206
706875022	AG21198
706875023	AG21199
706875024	AG21200
706875025	AG21201
706875026	AG21202
706875027	AG21203
1205992909	Method Blank (MB)
1205992910	Laboratory Control Sample (LCS)
1205992913	706875022(AG21198) Sample Duplicate (DUP)
1205992914	706875022(AG21198) 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 1205992913 (AG21198DUP), 1205992914 (AG21198PS), 706875001 (AG21210), 706875002 (AG21211), 706875008 (AG21204), 706875009 (AG21208), 706875010 (AG21212), 706875011 (AG21207), 706875012 (AG21209), 706875013 (AG21206), 706875022 (AG21198), 706875023 (AG21199), 706875024 (AG21200), 706875025 (AG21201), 706875026 (AG21202) and 706875027 (AG21203) 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	706875									
	001	002	008	009	010	011	012	013	022	023
Nitrogen, Nitrate/Nitrite	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X

Analyte	706875			
	024	025	026	027
Nitrogen, Nitrate/Nitrite	5X	5X	5X	5X

Sample Re-analysis
Sample 1205992910 (LCS) was re-analyzed to verify the result.

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2743620

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

GEL Sample ID#	Client Sample Identification
706875001	AG21210
706875002	AG21211
706875003	AG21177
706875004	AG21175
706875005	AG21178
706875006	AG21167
706875007	AG21168
706875010	AG21212
706875011	AG21207
706875012	AG21209
706875013	AG21206
706875014	AG21188
706875015	AG21187
706875016	AG21189
706875017	AG21176
706875018	AG21173
706875019	AG21169
706875020	AG21174
706875021	AG21181
1205993349	Method Blank (MB)
1205993350	706875001(AG21210) Sample Duplicate (DUP)
1205993351	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

RDL Met
The following RDLs were met with rounding.

Sample	Analyte	Value
1205993350 (AG21210DUP)	Radium-228	Result 0.468 < MDA 1.08 > RDL 1 pCi/L
706875001 (AG21210)	Radium-228	Result 0.715 < MDA 1.17 > RDL 1 pCi/L
706875011 (AG21207)	Radium-228	Result 0.524 < MDA 1.24 > RDL 1 pCi/L
706875012 (AG21209)	Radium-228	Result 0.942 < MDA 1.17 > RDL 1 pCi/L
706875015 (AG21187)	Radium-228	Result 0.481 < MDA 1.17 > RDL 1 pCi/L
706875016 (AG21189)	Radium-228	Result 0.513 < MDA 1.24 > RDL 1 pCi/L
706875017 (AG21176)	Radium-228	Result 1 < MDA 1.3 > RDL 1 pCi/L
706875020 (AG21174)	Radium-228	Result 0.958 < MDA 1.11 > RDL 1 pCi/L
706875021 (AG21181)	Radium-228	Result 0.731 < MDA 1.17 > RDL 1 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2743208

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

GEL Sample ID#	Client Sample Identification
706875001	AG21210
706875002	AG21211
706875003	AG21177
706875004	AG21175
706875005	AG21178
706875006	AG21167
706875007	AG21168
706875010	AG21212
706875011	AG21207
706875012	AG21209
706875013	AG21206
706875014	AG21188
706875015	AG21187
706875016	AG21189
706875017	AG21176
706875018	AG21173
706875019	AG21169
706875020	AG21174
706875021	AG21181
1205992498	Method Blank (MB)
1205992499	706875001(AG21210) Sample Duplicate (DUP)

1205992500	706875001(AG21210) Matrix Spike (MS)
1205992501	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
1205992499 (AG21210DUP), 1205992500 (AG21210MS) and 706875001 (AG21210) Aliquots were 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.

RAD - 2/21/25 706875

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2 / 7 / 24 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	TOC	F, Cl, SO4	NO3/NO2
AG21210	POZ-7	1/29/25	0928	ATH DCA	4	P G	G	GW	2/1,3		2	1	1	1
11	POZ-7 DUP	1	0933	1	1	1	1	1	1		1	1	1	1
AG21177	CCMAP-10	1/30/25	0920		3	P	G	GW	2/1		2		1	
75	CCMAP-8		1011											
78	CCMAP-11		1116											
67	CCMAP-1		1240											
68	CCMAP 2	1	1347	1	1	→	1	1	1		1		1	
AG21204	CLF1B-5D	1/27/25	1535	MDG ATH	3	P G	G	GW	1/3,1			1	1	1
AG21208	POZ-5D	1/28/25	1216	ATH DCA	3	P G	G	GW	1/3,1			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
	36851		GEL	1/31/25	1017
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
			GEL	1.31.25	1540
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=Ice 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD 2/21/25

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2/7/24 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.11 / 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	TOC	F, Cl, SO4	NO3/NO2
AG21212	FGE-8	1/28/25	1012	ATH DCA	4	P/G	G	GW	2/1,3		2	1	1	1
07	-4		1056											
09	-6		1339											
06	-3		1439											
AG21188	CCMLF-1D	1/29/25	1139	ATH DCA	3	P	G	GW	2/1		2		1	
87	CCMLF-1		1239											
89	CCMLF-2		1343											
76	CCMAP-9		1447											
73	CCMAP-6		1529											

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	1/31/25	1017
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL		GEL	1-31-25	1540
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)

RAD – 2/21/25

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 2/7/25 Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody

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Fax: (843)761-4175

Customer Email/Report Recipient: LINDA. WILLIAMS @santeecooper.com

Date Results Needed by: / /

Project/Task/Unit #: 125915 / JM02.09.001.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(See below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOC	F, Cl, SO_4	NO_3/NO_2
AG21169	CCMAP-3	1/21/25	1010	MDG DCA	3	P	G	GW	2/1		2		1	
74	CCMAP-7	"	1119	"	"	"	"	"	"		2		1	
81	CCMAP-14	"	1217	"	"	"	"	"	"		2		1	
AG21198	CLFIB-1	1/27/25	0919	MDG ATH	3	P&G			1/3			1	1	1
99	CFLIB-1 DUP	"	0924	"	"	"	"	"	"			1	1	1
200	CLFIB-2	"	1039	"	"	"	"	"	"			1	1	1
201	CLFIB-3	"	1212	"	"	"	"	"	"			1	1	1
202	CLFIB-4	"	1335	"	"	"	"	"	"			1	1	1
203	CLFIB-5	"	1454	"	"	"	"	"	"			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
	36851		GEL	1/31/25	1017
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
	GEL		GEL	1-31-25	1540
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: 706875	GEL PM:
Received By: QG	Date Received at GEL: 1/31/25	

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	0C				
Cooler 2	0C				
Cooler 3	15C	✓			

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) AC21212, 07, 07, 04 have 5 containers
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:
AC21210, 11 have 5 containers

PM (or PMA) review: Initials MG Date 2/3/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 02 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: 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

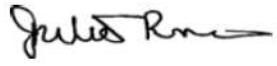
J Value is estimated

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

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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

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

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Certificate of Analysis

Report Date: March 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	Lc/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	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

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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

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

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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

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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

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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

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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.

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		
69	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

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

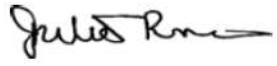
** Analyte is a surrogate compound

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: 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

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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

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

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Certificate of Analysis

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

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Certificate of Analysis

Report Date: 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

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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

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

GEL LABORATORIES LLC
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Certificate of Analysis

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

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Certificate of Analysis

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

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Certificate of Analysis

Report Date: 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
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:	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

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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

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

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Certificate of Analysis

Report Date: 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	Lc/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:	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 | **Gypsum**

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

MISC.
- ☐ 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
SLevy	35594	DP	GEL	6/10/25	1045
DP	GEL	Thyra Wilkes	GEL	6/10/25	1045

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 [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 (HNO3) [illegible]

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S Levy	35594	[signature]	GEL	6/10/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	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.GO2.3 / 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 [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

Total Metals [illegible]

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	[signature]	GEL	6/10/25	1045
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	GEL	[signature]	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: 10/10/25

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 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)
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 10/11/25

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 729235 GEL Work Order: 729235

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

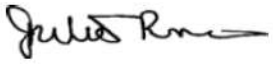
** Analyte is a surrogate compound

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:	AG34902	Project:	SOOP00119
Sample ID:	729235001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 10:03		
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	U	0.211	+/-0.430	0.754	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.781	+/-0.380	0.332	1.00	pCi/L			RS2	07/03/25	1051	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"			90.1	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: 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:	AG34898	Project:	SOOP00119
Sample ID:	729235002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 11:13		
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	0.206	+/-0.432	0.763	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.537	+/-0.371	0.468	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"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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:	AG34903	Project:	SOOP00119
Sample ID:	729235003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 12:11		
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	0.352	+/-0.472	0.807	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.308	+/-0.238	0.294	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"			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	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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:	AG34910	Project:	SOOP00119
Sample ID:	729235004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 13:08		
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	U	0.446	+/-0.370	0.588	1.00	pCi/L			JE1	07/08/25	0836	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.340	+/-0.343	0.537	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"			75.4	(15%-125%)

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

Column headers are defined as follows:

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

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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:	AG34847	Project:	SOOP00119
Sample ID:	729235005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 14:14		
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	U	0.113	+/-0.420	0.760	1.00	pCi/L			JE1	07/08/25	0834	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.443	+/-0.344	0.496	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"			81.5	(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

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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:	AG34908	Project:	SOOP00119
Sample ID:	729235006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 15:13		
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		0.665	+/-0.327	0.460	1.00	pCi/L			JE1	07/08/25	0834	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.449	+/-0.352	0.496	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"			91	(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:	AG34909	Project:	SOOP00119
Sample ID:	729235007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	12-JUN-25 16:16		
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		0.902	+/-0.515	0.787	1.00	pCi/L			JE1	07/08/25	0834	2815379	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.903	+/-0.447	0.455	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"			73.7	(15%-125%)

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: July 9, 2025

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

Workorder: **729235**

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: 729235

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 #: 729235

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
729235001	AG34902
729235002	AG34898
729235003	AG34903
729235004	AG34910
729235005	AG34847
729235006	AG34908
729235007	AG34909
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
729235001	AG34902
729235002	AG34898
729235003	AG34903
729235004	AG34910
729235005	AG34847

729235006	AG34908
729235007	AG34909
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 kcwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody 729235

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 / 36500

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			
AG34902	CCMAP-6	6/12/25	1003	AGP EA	2	P	G	GW	2		2			
AG84898	CCMAP-3		1113											
AG84903	CCMAP-7		1211											
AG34910	CCMAP-14		1308											
AG84847	CCMAP-2		1414											
AG84908	CCMAP-12		1513											
AG84909	CCMAP-13		1616											

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TKN
- ☐ NH3
- ☐ TP
- ☐ TOC
- ☐ NO2+3
- ☐ TN
- ☐ NO3
- ☐ SO4

Gypsum
- ☐ Wallboard
- ☐ Alkalinity
- ☐ pH
- ☐ Calcium Carbonate
- ☐ Chloride
- ☐ Free Moisture
- ☐ Hydroxide
- ☐ % Moisture
- ☐ Sulfate
- ☐ Fe
- ☐ Purity
- ☐ Al
- ☐ Sulfite
- ☐ Mg
- ☐ 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
- ☐ Flash Point
- ☐ Viscosity
- ☐ Sediment
- ☐ Water
- ☐ Density
- ☐ Ash
- ☐ Sulfur
- ☐ BTU
- ☐ Pour Point
- ☐ Metals
- ☐ Cetane Index
- ☐ Aromatics
- ☐ Distillation
- ☐ Cloud Point
- ☐ Carbon Residue
- ☐ Neutralization #
- ☐ Cu
- ☐ Ni
- ☐ Fe
- ☐ Pb
- ☐ Cl
- ☐ Na
- ☐ Ca
- ☐ Mg
- ☐ Si
- ☐ V
- ☐ Al
- ☐ Zn
- ☐ Cr
- ☐ Mn
- ☐ Sn
- ☐ Ash
- ☐ Oil Content
- ☐ Sulfur
- ☐ 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
- ☐ As
- ☐ B
- ☐ Ba
- ☐ Be
- ☐ Cd
- ☐ Co
- ☐ Cr
- ☐ Cu
- ☐ Fe
- ☐ K
- ☐ Li
- ☐ Mg
- ☐ Mn
- ☐ Mo
- ☐ Na
- ☐ Ni
- ☐ pH
- ☐ Sb
- ☐ Se
- ☐ Si
- ☐ Sr
- ☐ Ti
- ☐ V
- ☐ Zn
- ☐ Hg
- ☐ CCR
- ☐ SPLP
- ☐ TCLP
- ☐ Other

Relinquished by:	Employee #	Received by:	Employee #	Date	Time
S. Levy	35594	[signature]	GEL	6/17/25	0938
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
[signature]	GEL	[signature]	GEL	6-17-25	1600
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-HNO3 2-NaOH 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

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

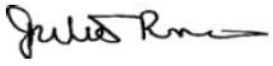
** Analyte is a surrogate compound

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: 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

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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

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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	Lc/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:	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
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:	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
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: 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 226/228			
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
- Insoluble Matter
- Purity (CaSO4)
- Moisture
- Sulfite
- 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
- Metals
- Furans
- Dissolved Gas
- Diesel Oil
- Health Index
- Moisture Content
- Neutralization
- Other

MISC.
- ☐ BTEX
- ☐ Naphthalene
- ☐ VOA/Semi
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

Metals (All)

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

July 17, 2025

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

Re: ABS Lab Analytical
Work Order: 729950

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 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: 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: 729950 GEL Work Order: 729950

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

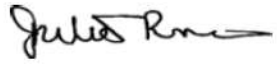
** Analyte is a surrogate compound

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 17, 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:	AG34896	Project:	SOOP00119
Sample ID:	729950001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JUN-25 09:43		
Receive Date:	20-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	0.433	+/-0.453	0.752	1.00	pCi/L			JE1	07/09/25	0925	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.115	+/-0.136	0.221	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"			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: July 17, 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:	AG34907	Project:	SOOP00119
Sample ID:	729950002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JUN-25 11:17		
Receive Date:	20-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		1.09	+/-0.529	0.757	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.942	+/-0.311	0.276	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"			64.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 17, 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:	AG34904	Project:	SOOP00119
Sample ID:	729950003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JUN-25 12:25		
Receive Date:	20-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	0.577	+/-0.537	0.879	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.35	+/-0.370	0.341	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"			59.5	(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 17, 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:	AG34906	Project:	SOOP00119
Sample ID:	729950004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JUN-25 13:29		
Receive Date:	20-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		0.793	+/-0.490	0.737	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.308	+/-0.228	0.337	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"			65.2	(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

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Certificate of Analysis

Report Date: July 17, 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:	AG34905	Project:	SOOP00119
Sample ID:	729950005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JUN-25 14:25		
Receive Date:	20-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	0.638	+/-0.444	0.685	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.982	+/-0.334	0.215	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"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 17, 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:	AG34918	Project:	SOOP00119
Sample ID:	729950006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	16-JUN-25 15:52		
Receive Date:	20-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		0.896	+/-0.508	0.746	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.534	+/-0.245	0.257	1.00	pCi/L			RS2	07/09/25	0928	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"			57.3	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 17, 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:	AG34916	Project:	SOOP00119
Sample ID:	729950007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	17-JUN-25 09:41		
Receive Date:	20-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		0.813	+/-0.478	0.710	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.716	+/-0.275	0.295	1.00	pCi/L			RS2	07/09/25	0928	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"			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 17, 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:	AG34917	Project:	SOOP00119
Sample ID:	729950008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	17-JUN-25 10:33		
Receive Date:	20-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	+/-0.458	0.629	1.00	pCi/L			JE1	07/09/25	0759	2817796	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.636	+/-0.289	0.277	1.00	pCi/L			RS2	07/09/25	0928	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"			65.6	(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

QC Summary

Report Date: July 17, 2025

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

Workorder: **729950**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2817796										
QC1206148939 729950001 DUP										
Radium-228	U	0.433	U	0.135	pCi/L	N/A		N/A	JE1	07/09/25 09:25
	Uncertainty	+/-0.453		+/-0.476						
QC1206148940 LCS										
Radium-228	27.2			25.1	pCi/L		92	(75%-125%)		07/09/25 07:59
	Uncertainty			+/-1.45						
QC1206148938 MB										
Radium-228			U	0.470	pCi/L					07/09/25 07:59
	Uncertainty			+/-0.360						
Rad Ra-226										
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						
QC1206148452 MB										
Radium-226			U	0.119	pCi/L					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

QC Summary

Workorder: **729950**

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 #: 729950

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2817796

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

GEL Sample ID#	Client Sample Identification
729950001	AG34896
729950002	AG34907
729950003	AG34904
729950004	AG34906
729950005	AG34905
729950006	AG34918
729950007	AG34916
729950008	AG34917
1206148938	Method Blank (MB)
1206148939	729950001(AG34896) Sample Duplicate (DUP)
1206148940	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Samples 1206148939 (AG34896DUP) and 729950001 (AG34896) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2817559

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

GEL Sample ID#	Client Sample Identification
729950001	AG34896
729950002	AG34907
729950003	AG34904
729950004	AG34906

729950005	AG34905
729950006	AG34918
729950007	AG34916
729950008	AG34917
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 / 21 / 25 Send report to icwillia@santeecooper.com & sherri.levy@santeecooper.com

Chain of Custody 729950

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 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			
AG34896	CCMAP-1	6/16/25	0943	AGP EA	2	P	G	GW	2		X			
AG34907	CCMAP-11	"	1117	"	"	"	"	"	"		"			
AG34904	CCMAP-8	"	1225	"	"	"	"	"	"		"			
AG34906	CCMAP-10	"	1329	"	"	"	"	"	"		"			
AG34905	CCMAP-9	"	1425	"	"	"	"	"	"		"			
AG34918	CCMLF-2	"	1552	"	"	"	"	"	"		"			
AG34916	CCMLF-1	6/17/25	0941	"	"	"	"	"	"		"			
AG34917	CCMLF-1D	"	1033	"	"	"	"	"	"		"			

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
J. Helmetti	36440		GEL	6/20/25	0855
Relinquished by:	Employee #	Received by:	Employee #	Date	Time
DCP	GEL			6/20/25	1540
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, A-Fly ash, 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: 729950	GEL PM:
Received By: KE	Date Received at GEL: 06.20.25	

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 (le radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).
COOLER	3				
COOLER	22	✓			

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: See COC copy for affected IDs *729954
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 JLW Date 6/21/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 17 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

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
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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
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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
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: 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	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	☐ Used Oil	☐ Dissolved As	☐ Hg ☐ CrVI ☐ XRF scan
☐ NO3	☐ pH	☐ HGI	☐ Oil & Grease	☐ Flashpoint	☐ Dissolved Fe	☐ RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ SO4	☐ Chlorides	Other Analysis:	☐ As	☐ Metals (As, Cd, Cr, Ni, Pb, Hg)	☐ Rad 226	
	☐ Particle Size	☐ Fineness	☐ TSS		☐ Rad 228	
	☐ Sulfur	☐ Particulate Matter		☐ GOFER	☐ PCB	
	☐ USDA					

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 - 21D

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
Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CAP-1*	82.7	7.61	5'-19'	1/14/2025	1340	20.15
Final GW Depth:	7.88	depth to GW (ft)		-4.12	Screen submerged (ft)?	
Drawdown:	0.27	ft		-1.37	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)
1300	17.73	4.46	138	1440	0	3.59
1305	16.7	4.45	110	1440	0	2.72
1310	16.77	4.42	112	1480	0	3.15
1315	16.91	4.39	111	1490	0	3.93
1320	16.92	4.37	111	1520	0	3.66
1325	16.99	4.37	110	1530	0	2.81
1328	17.07	4.37	107	1540	0	3.25
1331	17.1	4.38	107	1550	0	3.34
1334	17.19	4.38	106	1550	0	2.39
1337	17.21	4.39	104	1560	0	2.62
1340	17.24	4.4	103	1560	0	2.47

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:

* Original well, PM-3, was renamed CAP-1

** take WLs from top of PVC by reaching down into the well cover

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
CAP-3	91.49	16.75	15.5-30.5	1/14/2025	1617	30.77

Final GW Depth:	16.76	depth to GW (ft)	0.62	Screen submerged (ft)?	
Drawdown:	0.01	ft	1.6	Silt Buildup (ft)	
Ferric Iron	2.4	mg/L			
Ferrous Iron	1.95	mg/L			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1543	20.09	6.32	51	892	0	5.28
1548	20.55	6.29	35	950	0	3.86
1553	20.62	6.3	27	1040	0	2.74
1558	20.71	6.32	21	1700	0	1.75
1603	20.47	6.38	10	2580	0	1.42
1608	20.33	6.39	6	2670	0	1.8
1611	20.41	6.39	4	2680	0	2.16
1614	20.46	6.39	3	2680	0	2.14
1617	20.49	6.39	3	2690	0	2.24

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
CAP-4	**91.77**	17.24	**40.5-60.5**	1/15/2025	942	61.76

Final GW Depth:	17.29	**depth to GW (ft)**	25.26	**Screen submerged (ft)?**	
Drawdown:	0.05	**ft**	0.74	**Silt Buildup (ft)**	
Ferric Iron	3.02	**mg/L**			
Ferrous Iron	+++	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
922	17.14	6.59	-96	4240	1.1	5.43
927	16.01	6.5	-83	4420	0.9	2.11
932	15.89	6.48	-78	4400	0.7	1.8
937	16.15	6.47	-75	4370	1.1	1.62
942	16.32	6.47	-73	4390	1.5	1.6

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions: Used probe with sensor at end…do not add 0.25 to total depth.

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
CAP-5	**91.78**	17.44	15.5-30.5	1/15/2025	1108	32.55

Final GW Depth:	17.67	**depth to GW (ft)**	0.04	Screen submerged (ft)?
Drawdown:	0.23	**ft**	-0.07	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)
1031	15.59	4.11	200	1170	0	3.2
1036	16.01	4.01	237	1160	4.2	2.31
1041	16.4	3.93	253	1150	2.1	2.41
1046	16.69	3.89	262	1150	0.5	2.09
1051	16.77	3.88	266	1150	0.7	1.96
1056	17.26	3.87	271	1150	0.5	2.22
1059	17.42	3.86	272	1150	0	1.95
1102	17.4	3.87	272	1150	0.1	2.48
1105	17.4	3.86	274	1150	0.2	2.39
1108	17.68	3.86	274	1140	0	2.27

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
CAP-6	**91.82**	17.81	**40.5-60.5**	1/15/2025	1223	61.91

Final GW Depth:	17.83	**depth to GW (ft)**	24.68	**Screen submerged (ft)?**	
Drawdown:	0.02	**ft**	0.58	**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)
1152	15.4	6.39	1	2310	4.4	3.9
1157	15.98	6.68	-51	2370	3.9	2.67
1202	16.43	6.68	-58	2410	4.6	2.52
1207	16.62	6.68	-60	2560	4.4	2.65
1212	17.14	6.67	-62	2710	4.3	1.72
1217	17.08	6.67	-63	2830	3.8	1.65
1220	17.13	6.68	-62	2830	3.3	1.73
1223	17.19	6.68	-63	2830	2.8	1.58

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
CAP-7	91.64	16.91	15.5-30.5	1/15/2025	1350	32.8

Final GW Depth:	17.1	depth to GW (ft)	0.69	Screen submerged (ft)?	
Drawdown:	0.19	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)
1313	17.91	5.73	17	5830	35.2	4.3
1318	17.69	5.75	18	5810	25.5	2.3
1323	17.58	5.75	18	5810	10	3.06
1328	17.21	5.75	19	5820	5.1	1.67
1333	18.08	5.74	19	5800	2.8	1.52
1338	18.02	5.73	19	5790	2.2	2.4
1341	17.97	5.73	19	5790	3.2	1.81
1344	17.81	5.73	19	5810	1.9	1.48
1347	17.44	5.74	20	5820	1.1	1.43
1350	17.85	5.73	19	5760	1.4	1.41

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
CAP-8	**91.61**	17.98	**40.5-60.5**	1/15/2025	1456	62.48

Final GW Depth:	18	**depth to GW (ft)**	24.43	**Screen submerged (ft)?**	
Drawdown:	0.02	**ft**	-0.07	**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)
1431	18.19	6.48	-59	6100	4.6	3.05
1436	18.42	6.49	-48	6110	0	2.03
1441	18.5	6.49	-49	6110	2	1.71
1446	18.61	6.48	-51	6110	1.9	1.52
1451	18.61	6.48	-52	6120	1	1.41
1456	18.8	6.48	-52	6110	2.4	1.41

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
CAP-9	91.59	17.22	15.5-30.5	1/16/2025	954	32.32
Final Well Depth	18.82	depth to GW (ft)		0.27	Screen submerged (ft)?	
Drawdown:	1.6	ft		0.17	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)
915	18.48	3.22	306	4730	0	2.69
920	18	3.24	362	4740	1.2	2.37
925	18.21	3.24	378	4750	1.6	2.01
930	18.62	3.23	380	4770	2.9	1.66
935	18.7	3.26	377	4770	0	1.69
940	19.12	3.37	350	4760	4.8	1.46
945	19.24	3.41	336	4740	9.6	1.69
948	19.24	3.44	327	4740	5.7	1.71
951	19.38	3.47	321	4720	7.2	1.63
954	19.41	3.5	318	4720	6.4	1.51

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:
Duplicate collected at 959

Cross Generating Station
NPDES Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CAP-10	**95.68**	22	**43-63**	1/15/2025	1614	65.18

Fianl Well Dpeth:	22.02	**depth to GW (ft)**		23.01	**Screen submerged (ft)?**
Drawdown:	0.02	**ft**		-0.17	**Silt Buildup (ft)**
Ferric Iron	2	**mg/L**			
Ferrous Iron	1.97	**mg/L**			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1546	18.29	7.29	-110	348	1.8	2.46
1551	18.36	7.24	-124	343	0.9	1.91
1556	18.55	7.22	-129	321	0.6	1.59
1601	18.5	7.21	-130	317	0.2	1.56
1606	18.66	7.21	-131	311	0	1.34
1611	18.81	7.2	-132	309	0	1.34
1614	18.74	7.2	-132	308	0	1.34

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
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:

** code is 5582

Cross Generating Station
CMA/NE Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-1	**80.21**	5.94	**13-23**	1/30/2025	1240	26.42

Final GW Depth:	6.11	**depth to GW (ft)**	10.301	**Screen Submerged (ft)?**	
Drawdown:	0.17	**ft**	-0.179	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**			
Ferrous Iron:	0.18	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1148	21.51	6.84	187	291	13.2	5.36
1153	20.72	7.26	181	295	11.5	1.35
1158	20.38	7.28	179	299	10.3	1.17
1203	20.1	7.26	176	302	6.6	1.02
1208	19.93	7.22	161	304	5.3	0.96
1213	19.92	7.16	89	311	5.2	0.86
1216	19.94	7.14	39	311	6.5	0.82
1219	19.99	7.14	8	313	3	0.76
1222	20.1	7.21	-14	314	0.4	0.7
1225	20.17	7.26	-27	314	0	0.68
1228	20.25	7.26	-31	314	0	0.65
1231	20.24	7.34	-47	311	0	0.57
1234	20.2	7.34	-55	309	2.7	0.54
1237	20.19	7.34	-60	311	0.7	0.54
1240	20.31	7.34	-65	315	1.5	0.56

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-2	**81.24**	7.66	**13-23**	1/30/2025	1347	26.73

Final GW Depth:	7.71	**depth to GW (ft)**	8.64	**Screen Submerged (ft)?**	
Drawdown:	0.05	**ft**	-0.43	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**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)
1316	19.31	6.51	78	51	11.4	2.76
1321	18.62	5.74	128	47	9.3	2.4
1326	18.57	5.65	152	47	7.2	2.21
1331	18.58	5.57	171	47	6.3	2.07
1336	18.65	5.56	182	47	6.3	1.91
1341	18.58	5.51	193	47	7.7	1.82
1344	18.57	5.47	198	47	5.9	1.75
1347	18.49	5.43	203	47	6.8	1.76

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-3	**81.91**	8.09	**24'-34'**	1/21/2025	1010	36.57

Final GW Depth:	8.11	**depth to GW (ft)**	18.44	**Screen Submerged (ft)?**	
Drawdown:	0.02	**ft**	-0.04	**Silt Buildup (ft)**	
Ferric Iron:	2.77	**mg/L**			
Ferrous Iron:	2.71	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
857	16.89	6.83	290	4720	0.4	5.96
902	14.73	6.98	424	4700	0.7	5.05
907	15.4	6.97	475	4670	0	5.37
912	15.93	6.96	483	4670	0.7	5.29
917	15.75	6.96	489	4700	0	5.21
922	15.31	6.97	484	4710	0	4.4
925	14.59	6.98	491	4660	0	5.14
928	15.88	6.82	483	4780	6	5.09
931	16.34	6.71	157	5180	8.5	3.67
934	15.73	6.54	98	5440	6.4	2.34
937	15.13	6.5	69	5710	0.9	1.81
940	15.06	6.5	62	5790	0.8	1.65
943	15.31	6.47	45	5860	0.6	2
946	15.68	6.46	29	5830	0.3	1.66
949	14.76	6.47	9	5970	0.5	2
952	15.56	6.46	5	5870	0	1.73
955	15.94	6.46	0	5930	0	1.94
958	15.96	6.46	-5	5960	0	1.77
1001	15.44	6.46	-9	5970	0	1.78
1004	15.39	6.47	-11	5930	0	2.29
1007	15.73	6.46	-11	5940	0	2.17
1010	15.93	6.46	-11	5950	0	2.04

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions: ** code is 5582

Cross Generating Station
CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-4	**81.83**	6.72	**8'-18'**	2/3/2025	1154	21.22

Final GW Depth:	6.85	**depth to GW (ft)**	4.03	**Screen Submerged (ft)?**	
Drawdown:	0.13	**ft**	-0.47	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**			
Ferrous Iron:	1.5	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1117	16.22	6.5	129	508	67.8	3.98
1122	16.48	6.5	119	510	64.8	2.21
1127	16.65	6.47	94	507	53	1.84
1132	16.84	6.45	69	502	34.2	1.6
1137	17.06	6.43	50	493	23.8	1.37
1142	17.26	6.42	36	484	19.5	1.23
1145	17.38	6.41	30	480	20.6	1.16
1148	17.5	6.41	22	475	17	1.06
1151	17.62	6.41	18	474	15	1.04
1154	17.68	6.41	16	473	16	1.03

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582
Duplicate at 1159
NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-5	**83.71**	8.23	**10'-20'**	2/3/2025	1351	21.97
Final GW Depth:	8.21	**depth to GW (ft)**		5.26	**Screen Submerged (ft)?**	
Drawdown:	-0.02	**ft**		1.52	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**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)
1238	17.49	6.97	150	626	7.5	2.66
1243	17.41	6.95	321	632	3.5	2.03
1248	17.63	6.94	372	633	0.8	1.7
1253	18.03	6.92	384	633	0	1.48
1258	18.21	6.92	383	634	0	1.51
1303	18.26	6.91	359	637	0	1.41
1306	18.3	6.9	350	638	0	1.31
1309	18.43	6.88	319	640	0	1.33
1312	18.6	6.87	277	642	0	1.27
1315	18.8	6.87	255	643	0	1.14
1318	18.76	6.86	238	644	0	1.13
1321	18.82	6.85	210	647	0	1.11
1324	18.82	6.85	193	647	0	1.08
1327	18.81	6.83	173	649	0	1.06
1330	18.96	6.83	153	651	0	0.98
1333	19.04	6.82	139	652	0	0.96
1336	19.05	6.81	128	653	0	0.94
1339	19.03	6.8	120	655	0	0.88
1342	18.98	6.8	111	655	0	0.89
1345	18.99	6.79	102	656	0	0.88
1348	19.03	6.78	94	657	0	0.84
1351	19	6.78	92	658	0	0.82

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions: **Conditional formatting error; readings are within stabilizing thresholds**

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-6	**84.41**	9.61	**10'-20'**	1/29/2025	1529	24.21
Final GW Depth:	9.7	**depth to GW (ft)**		3.89	**Screen Submerged (ft)?**	
Drawdown:	0.09	**ft**		-0.71	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**				
Ferrous Iron:	0.07	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1509	20.27	4.85	462	159	1	3.5
1514	18.67	4.71	427	166	1.8	1.26
1519	18.8	4.68	416	165	0	0.99
1524	18.73	4.62	414	165	0	0.96
1529	18.55	4.58	413	166	0	0.98

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station
CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-7	81.57	8.02	10'-20'	1/21/2025	1119	23.91
Final GW Depth:	8.17			5.49	Screen Submerged (ft)?	
Drawdown:	0.15	ft		-0.4	Silt Buildup (ft)	
Ferric Iron:	0	mg/L				
Ferrous Iron:	0.06	mg/L				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1048	13.08	6.66	20	176	0	5.2
1053	12.39	6.2	114	151	0	5.64
1058	12.56	5.97	159	115	0	5.33
1103	13.26	5.83	182	103	0	3.77
1108	11.94	5.76	194	100	0	3.86
1113	11.52	5.76	195	95	0	3
1116	11.37	5.75	195	95	0	2.73
1119	11.25	5.74	196	94	0	2.67

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:

** code is 5582

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-8	**82.89**	8.36	**10.0-20.0**	1/30/2025	1011	23.73

Final GW Depth:	8.42	**depth to GW (ft)**	4.42	**Screen Submerged (ft)?**	
Drawdown:	0.06	**ft**	-0.95	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**			
Ferrous Iron:	0.03	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
946	16.54	5.34	258	33	9.5	7.43
951	15.71	5.25	271	34	3.2	2.3
956	15.53	5.16	283	34	7.7	2.11
1001	15.62	5.03	296	34	7.4	1.88
1006	15.62	5.02	301	34	4.9	1.73
1011	15.61	4.98	306	34	7.2	1.65

Samples were collected by ATH and DCA

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-9	82.89	7.6	10.0-20.0	1/29/2025	1447	22.99

Final GW Depth:	7.62	depth to GW (ft)	5.18	Screen Submerged (ft)?	
Drawdown:	0.02	ft	-0.21	Silt Buildup (ft)	
Ferric Iron:	N/A*	mg/L			
Ferrous Iron:	0.08	mg/L			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1416	19.79	4.94	460	91	0	1.47
1421	20.14	4.91	515	91	0	1.33
1426	20.2	4.89	525	90	0	1.02
1431	20.32	4.85	531	89	0	1.03
1436	20.35	4.85	533	89	0	0.88
1441	20.45	4.85	532	89	0	0.74
1444	20.47	4.89	529	89	0	0.69
1447	20.54	4.89	529	88	0	0.66

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-10	82.89	7.34	10.0-20.0	1/30/2025	920	23.2

Final GW Depth:	7.41	depth to GW (ft)	5.44	Screen Submerged (ft)?	
Drawdown:	0.07	ft	-0.38	Silt Buildup (ft)	
Ferric Iron:	N/A*	mg/L			
Ferrous Iron:	0.01	mg/L			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
855	17.11	5.78	203	41	0	3.57
900	17.76	5.14	225	38	0	2.59
905	17.03	5.08	241	37	0	2.34
910	17.42	5.01	257	37	0	2.09
915	17.58	5.03	263	37	0	2.01
920	17.7	5.04	265	37	0	1.85

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-11	**82.89**	6.12	**10.0-20.0**	1/30/2025	1116	23.56
Final GW Depth:	6.28	**depth to GW (ft)**		6.66	**Screen Submerged (ft)?**	
Drawdown:	0.16	**ft**		-0.78	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**				
Ferrous Iron:	0.06	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1042	16.82	5.53	263	60	21.2	10.7
1047	16.92	5.53	214	66	11.7	1.43
1052	17.08	5.56	185	67	13.5	1.35
1057	17.31	5.55	174	67	9.8	0.94
1102	17.43	5.58	159	67	2	0.76
1107	17.66	5.59	153	67	0	0.74
1110	17.65	5.59	152	67	0	0.66
1113	17.76	5.59	150	68	0	0.68
1116	17.85	5.6	147	68	0	0.68

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-12	**82.89**	6.54	**11.0-21.0**	2/3/2025	1033	24.71

Final GW Depth:	6.58	**depth to GW (ft)**	6.24	**Screen Submerged (ft)?**	
Drawdown:	0.04	**ft**	-0.9	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**			
Ferrous Iron:	0.21	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1002	15.39	7.26	54	309	44.7	4.92
1007	15.44	6.35	55	216	23.1	2.66
1012	15.55	6.3	66	203	24.7	2.41
1017	15.71	6.28	76	200	26.7	2.33
1022	16.06	6.26	82	200	27.8	1.92
1027	16.16	6.26	84	198	17.6	1.88
1030	16.19	6.25	85	198	18.8	1.79
1033	16.34	6.26	85	198	16	1.69

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-13	**82.89**	6.24	**31.0-36.0**	2/3/2025	934	38.87

Final GW Depth:	6.28	**depth to GW (ft)**	26.54	**Screen Submerged (ft)?**	
Drawdown:	0.04	**ft**	0.17	**Silt Buildup (ft)**	
Ferric Iron:	N/A*	**mg/L**			
Ferrous Iron:	2.77	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
842	17.24	6.54	185	2650	16.6	13.31
847	16.84	7.35	196	2680	15	13.41
852	16.73	7.39	221	2700	11.9	13.3
857	16.75	7.39	241	2710	12.2	13.2
902	16.72	7.13	268	2740	13	13.05
907	16.68	7.07	289	2770	9.8	12.77
910	16.76	7	287	2880	11.6	12.55
913	16.75	6.86	-3	3150	11	12.3
916	16.69	6.77	-52	3390	11.7	12
919	16.56	6.68	-66	3620	12	11.68
922	16.5	6.65	-73	3770	10.8	11.35
925	16.5	6.63	-72	3810	11	11.02
928	16.46	6.62	-66	3960	11.2	10.75
931	16.38	6.62	-61	4000	11.1	10.49
934	16.26	6.63	-56	3990	11	10.25

Samples were collected by Aaron Hill and Dan Alexander

Comments/Conditions:

** code is 5582

NA*--Supply issues/out of Ferric Iron Reagent Packs

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-14	**82.89**	5.09	**12.0-22.0**	1/21/2025	1217	25.32
Final GW Depth:	5.16	**depth to GW (ft)**		7.69	**Screen Submerged (ft)?**	
Drawdown:	0.07	**ft**		-0.5	**Silt Buildup (ft)**	
Ferric Iron:	0.33	**mg/L**				
Ferrous Iron:	0.15	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1149	14.5	6.13	173	224	8	3.52
1154	13.44	6.09	112	221	10.1	2.41
1159	12.57	6.04	108	215	0	2.23
1204	12.35	6.02	112	207	0	2.22
1209	12.39	5.98	112	198	0	1.89
1214	12.6	5.98	112	194	0	1.85
1217	12.34	5.99	112	196	0	1.81

Samples were collected by Melanie Goings and Dan Alexander

Comments/Conditions:

** code is 5582

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
CAP-1*	82.7	7.15	5'-19'	6/3/2025	1126	20.34

Final GW Depth:	7.23	depth to GW (ft)	-2.37	Screen submerged (ft)?	
Drawdown:	0.08	ft	-1.56	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)
1101	24.79	4.72	112	1540	0.4	0.65
1106	25.22	4.47	118	1760	0	0.46
1111	24.98	4.47	120	1800	0	0.38
1116	24.83	4.53	116	1800	0	0.34
1121	24.59	4.57	112	1810	0.2	0.31
1126	24.23	4.58	112	1810	0.3	0.3

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

* Original well, PM-3, was renamed CAP-1

** take WLs from top of PVC by reaching down into the well cover

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
CAP-3	91.49	16.15	15.5-30.5	6/3/2025	1343	31.36

Final GW Depth:	16.14	depth to GW (ft)	1.22	Screen submerged (ft)?	
Drawdown:	-0.01	ft	1.01	Silt Buildup (ft)	
Ferric Iron	1.77	mg/L			
Ferrous Iron	1.91	mg/L			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1257	31.66	5.91	96	563	9.9	0.76
1302	31.11	5.73	169	591	0	0.48
1307	30.67	5.81	174	699	0	0.32
1312	30.57	6.01	168	893	0.7	0.3
1317	30.65	6.14	139	1150	3.4	0.27
1322	31.21	6.23	93	1600	4.3	0.28
1325	31.43	6.27	71	1930	6.1	0.27
1328	31.66	6.32	51	2170	9	0.27
1331	31.78	6.37	36	2280	9.8	0.27
1334	31.73	6.41	25	2320	10.9	0.25
1337	30.54	6.43	16	2400	11.3	0.25
1340	31.1	6.45	11	2400	12	0.26
1343	31.41	6.46	8	2390	12.9	0.25

Samples were collected by: Ashton Poole & Evan Amick

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
CAP-4	91.77	16.51	40.5-60.5	6/3/2025	1450	62.78

Final GW Depth:	16.5	depth to GW (ft)	25.99	Screen submerged (ft)?	
Drawdown:	-0.01	ft	-0.28	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)
1430	32.03	6.64	-44	3830	9.2	1.08
1435	31.84	6.67	-63	3850	0	0.42
1440	30.81	6.67	-68	3900	0	0.33
1445	30.4	6.66	-69	3920	0	0.31
1450	30.11	6.67	-71	3940	1.6	0.29

Samples were collected by Ashton Poole and Evan Almick

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
CAP-5	**91.78**	16.86	15.5-30.5	6/3/2025	1616	33.25

Final GW Depth:	17.19	**depth to GW (ft)**	0.62	Screen submerged (ft)?
Drawdown:	0.33	**ft**	-0.77	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)
1527	26.67	3.95	268	1490	0	1.24
1532	24.72	3.84	285	1630	0	0.51
1537	24.55	3.84	277	1720	0	0.53
1542	24.13	3.82	274	1740	0	0.53
1547	23.71	3.81	271	1740	0	0.39
1552	23.82	3.82	270	1750	0	0.43
1555	24	3.81	269	1760	0	0.26
1558	23.7	3.82	267	1750	0.1	0.38
1601	23.89	3.83	266	1760	0.8	0.4
1604	24.04	3.83	265	1740	0	0.25
1607	23.69	3.82	264	1750	0.6	0.37
1610	23.7	3.83	265	1750	1.2	0.25
1613	23.55	3.84	263	1770	5.2	0.25
1616	23.44	3.84	262	1790	4.5	0.24

Samples were collected by Ashton Poole and Evan Almick

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
CAP-6	91.82	17.42	40.5-60.5	6/4/2025	937	63.23

Final GW Depth:	17.43	depth to GW (ft)	25.07	Screen submerged (ft)?	
Drawdown:	0.01	ft	-0.74	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)
906	18.95	6.21	-11	2490	10.7	1.6
911	19.35	6.59	-88	2500	16.9	1.07
916	19.61	6.64	-91	2500	14.2	1
921	20.33	6.74	-95	2460	6.4	0.86
926	20.81	6.75	-96	2450	5.1	0.75
931	21.24	6.76	-97	2440	4.9	0.6
934	21.48	6.77	-97	2440	5.2	0.54
937	21.7	6.77	-97	2440	5.8	0.53

Samples were collected by Ashton Poole and Evan Amick

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
CAP-7	91.64	16.44	15.5-30.5	6/4/2025	1038	33.33

Final GW Depth:	16.44	depth to GW (ft)	1.16	Screen submerged (ft)?	
Drawdown:	0	ft	-0.73	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)
1010	24.04	5.94	-7	4290	7.3	1.02
1015	23.98	5.81	0	4330	5.4	0.63
1020	24.05	5.78	4	4360	3.4	0.49
1025	24.24	5.78	5	4370	2.2	0.43
1030	24.54	5.79	3	4340	1.8	0.38
1035	24.85	5.8	5	4300	2.1	0.36
1038	25.02	5.8	4	4280	1.7	0.34

Samples were collected by Ashton Poole and Evan Amick

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
CAP-8	91.61	17.53	40.5-60.5	6/4/2025	1139	63.64

Final GW Depth:	17.53	depth to GW (ft)	24.88	Screen submerged (ft)?	
Drawdown:	0	ft	-1.23	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)
1119	27.6	6.53	-43	5170	5.4	0.79
1124	27.22	6.7	-39	5230	5.4	0.45
1129	26.98	6.62	-57	5270	4.7	0.37
1134	26.85	6.6	-63	5280	6.2	0.37
1139	26.97	6.61	-65	5270	4.5	0.34

Samples were collected by: Ashton Poole & Evan Amick

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
CAP-9	91.59	14.86	15.5-30.5	6/4/2025	1238	32.89

Final Well Depth	18.21	depth to GW (ft)	2.63	Screen submerged (ft)?	
Drawdown:	3.35	ft	-0.4	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)
1213	28.27	4.1	225	4260	5	1.17
1218	27.91	3.82	283	4390	1.7	0.41
1223	27.65	3.77	294	4380	5.6	0.32
1228	27.41	3.76	296	4380	3.2	0.28
1233	27.28	3.74	302	4380	4.6	0.27
1238	27.29	3.74	305	4380	3.6	0.25

Samples were collected by: Ashton Poole & Evan Amick

Comments/Conditions: Dup was colletected @ 1243

Cross Generating Station
NPDES Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CAP-10	**95.68**	21.52	**43-63**	6/4/2025	1403	66.69

Fianl Well Dpeth:	21.53	**depth to GW (ft)**		**Screen submerged (ft)?**	
Drawdown:	0.01	**ft**	-1.68	**Silt Buildup (ft)**	
Ferric Iron	+++	**mg/L**			
Ferrous Iron	1.74	**mg/L**			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1338	28.87	6.46	-38	491	0	1.01
1343	28.46	6.76	-99	444	0.5	0.68
1348	28.02	6.88	-113	430	3.4	0.57
1353	27.69	6.89	-117	425	2.6	0.5
1358	27.43	6.92	-120	425	2.9	0.46
1403	27.21	6.95	-122	425	3.9	0.45

Samples were collected by: Ashton Poole & Evan Amick

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	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
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:

** code is 5582

*Pump was turned off before iron was tested

Cross Generating Station
CMA/NE Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-1	**80.21**	4.66	**13-23**	6/16/2025	943	26.41
Final GW Depth:	4.74	**depth to GW (ft)**		11.58	**Screen Submerged (ft)?**	
Drawdown:	0.08	**ft**		-0.17	**Silt Buildup (ft)**	
Ferric Iron:	0.13	**mg/L**				
Ferrous Iron:	0.06	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
915	19.07	5.81	136	379	0.9	2.29
920	19.78	6.35	-66	353	0	0.81
925	19.88	6.62	-96	348	0	0.79
930	19.93	6.78	-111	346	0	0.69
935	20.07	6.85	-119	346	0	0.61
940	20.08	6.91	-125	346	0	0.56
943	20.1	6.93	-128	345	0	0.53

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station
for CCR ACM Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-2	**81.24**	6.59	**13-23**	6/12/2025	1414	26.69

Final GW Depth:	6.54	**depth to GW (ft)**	9.71	**Screen Submerged (ft)?**	
Drawdown:	-0.05	**ft**	-0.39	**Silt Buildup (ft)**	
Ferric Iron:	0.21	**mg/L**			
Ferrous Iron:	0	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1346	27.82	5.8	46	66	0.1	2.21
1351	27.19	5.55	87	63	1.9	0.94
1356	26.56	5.55	100	61	2	0.74
1401	26.04	5.48	115	58	2.3	0.65
1406	25.6	5.41	127	57	2.2	0.71
1411	25.18	5.37	135	56	2	0.66
1414	24.98	5.34	139	56	1.9	0.7

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-3	**81.91**	7.04	**24'-34'**	6/12/2025	1113	36.92
Final GW Depth:	7.05	**depth to GW (ft)**		19.49	**Screen Submerged (ft)?**	
Drawdown:	0.01	**ft**		-0.39	**Silt Buildup (ft)**	
Ferric Iron:	2.26	**mg/L**				
Ferrous Iron:	2.26	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1033	27.65	5.61	250	3460	9.7	1.12
1038	27.62	5.63	219	3530	7.5	1.12
1043	27.53	4.72	204	3470	6.5	0.78
1048	27.56	4.9	195	3380	6.6	0.57
1053	27.68	5	188	3300	6.4	0.62
1058	27.87	5.04	185	3090	5.7	0.33
1101	28.17	5.07	182	3040	5.6	0.33
1104	28.4	5.09	180	3010	5.3	0.42
1107	28.59	5.1	177	2970	5	0.3
1110	28.73	5.07	174	2940	4.7	0.3
1113	28.87	5.05	176	2910	4.6	0.28

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station
CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-4	**81.83**	6.44	**8'-18'**	6/11/2025	1503	21.16

Final GW Depth:	6.42	**depth to GW (ft)**	4.31	**Screen Submerged (ft)?**	
Drawdown:	-0.02	**ft**	-0.41	**Silt Buildup (ft)**	
Ferric Iron:	3.16	**mg/L**			
Ferrous Iron:	3.03	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1435	22.35	6.06	-9	503	0	1.19
1440	21.78	6	2	508	0	0.55
1445	21.26	6.04	-3	498	0.2	0.45
1450	21.18	6.09	-8	496	0.4	0.45
1455	21.07	6.15	-11	497	0.6	0.39
1500	21.11	6.1	-7	497	0.7	0.38
1503	21.07	6.14	-10	498	0.9	0.36

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions: Dup was taken at 1508

** code is 5582

Cross Generating Station
CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-5	**83.71**	7.62	**10'-20'**	6/11/2025	1620	21.9
Final GW Depth:	7.67	**depth to GW (ft)**		5.87	**Screen Submerged (ft)?**	
Drawdown:	0.05	**ft**		1.59	**Silt Buildup (ft)**	
Ferric Iron:	0.23	**mg/L**				
Ferrous Iron:	0.21	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1543	21.91	6.58	-17	662	0	1.14
1548	22.12	6.65	-31	671	0	0.55
1553	22.16	6.64	-30	681	1.2	0.57
1558	21.59	6.62	-23	695	0.8	0.48
1603	21.27	6.53	-9	722	0.5	0.41
1608	21.03	6.49	-7	734	0.6	0.47
1611	20.83	6.51	-7	738	0.7	0.38
1614	20.66	6.5	-6	741	0.8	0.34
1617	20.59	6.48	-4	742	1	0.35
1620	20.48	6.49	-4	743	1	0.32

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions: **Rain started at 1616**

** code is 5582

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-6	**84.41**	9.11	**10'-20'**	6/12/2025	1003	24.16
Final GW Depth:	9.13	**depth to GW (ft)**		4.39	**Screen Submerged (ft)?**	
Drawdown:	0.02	**ft**		-0.66	**Silt Buildup (ft)**	
Ferric Iron:	0.03	**mg/L**				
Ferrous Iron:	0	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
923	19.19	5.45	263	157	3.6	2.81
928	19.42	5.09	351	155	0.7	2.37
933	19.78	5.15	370	146	1.3	1.86
938	20.19	5.18	379	138	3.5	1.58
943	20.77	5.2	382	128	7.6	1.47
948	21.22	5.19	382	122	5.1	1.42
951	22	5.19	384	111	2.7	1.32
954	22.53	5.17	383	106	2.3	1.29
957	22.99	5.16	382	102	2.7	1.26
1000	23.47	5.14	378	100	3.6	1.24
1003	23.81	5.18	373	97	3.8	1.19

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station
CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-7	81.57	6.99	10'-20'	6/12/2025	1211	23.86
Final GW Depth:	7.14			6.52	Screen Submerged (ft)?	
Drawdown:	0.15	ft		-0.35	Silt Buildup (ft)	
Ferric Iron:	0	mg/L				
Ferrous Iron:	0.02	mg/L				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1146	30.17	4.6	66	2	10.1	6.75
1151	30.12	4.84	38	1	2.5	7.02
1156	29.96	4.94	30	1	2.7	6.9
1201	29.82	5.01	34	1	2.9	6.85
1206	29.78	5.05	42	1	1.8	6.83
1211	29.81	5.07	48	1	1.1	6.82

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-8	**82.89**	7.31	**10.0-20.0**	6/16/2025	1225	23.71
Final GW Depth:	7.3	**depth to GW (ft)**		5.47	**Screen Submerged (ft)?**	
Drawdown:	-0.01	**ft**		-0.93	**Silt Buildup (ft)**	
Ferric Iron:	0	**mg/L**				
Ferrous Iron:	0	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1154	26.64	6.32	85	38	12.5	1.31
1159	26.03	5.02	149	41	11.2	0.93
1204	25.6	4.99	163	40	11	0.54
1209	25.4	4.98	172	40	10.3	0.41
1214	25.04	4.97	182	39	11	0.37
1219	25.21	4.94	191	37	11.2	0.34
1222	24.81	4.97	194	37	12.6	0.31
1225	24.96	4.95	197	37	10.3	0.32

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-9	82.89	6.74	10.0-20.0	6/16/2025	1425	22.95

Final GW Depth:	6.75	depth to GW (ft)	6.04	Screen Submerged (ft)?	
Drawdown:	0.01	ft	-0.17	Silt Buildup (ft)	
Ferric Iron:	0	mg/L			
Ferrous Iron:	0	mg/L			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1357	26.61	4.57	152	84	43.8	1.37
1402	25.89	4.29	250	88	41.4	0.53
1407	25.71	4.35	264	86	36.4	0.37
1412	25.59	4.41	268	86	31.4	0.4
1417	25.55	4.48	270	86	36.5	0.3
1422	25.76	4.47	276	85	14.9	0.29
1425	25.8	4.51	275	85	14.4	0.28

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

** code is 5582

Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-10	**82.89**	6.41	**10.0-20.0**	6/16/2025	1329	23.16
Final GW Depth:	6.36	**depth to GW (ft)**		6.37	**Screen Submerged (ft)?**	
Drawdown:	-0.05	**ft**		-0.34	**Silt Buildup (ft)**	
Ferric Iron:	0.83	**mg/L**				
Ferrous Iron:	0.66	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1258	24.55	4.81	116	38	3.8	1.37
1303	23.97	4.71	113	40	5.9	0.5
1308	24.17	4.72	115	40	5	0.37
1313	24.23	4.71	116	43	5.3	0.32
1318	24.11	4.77	114	44	4.4	0.29
1323	24.27	4.78	118	45	4.2	0.26
1326	24.03	4.79	121	45	4	0.27
1329	23.93	4.79	123	45	4.1	0.25

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Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-11	**82.89**	4.69	**10.0-20.0**	6/16/2025	1117	23.5

Final GW Depth:	4.75	**depth to GW (ft)**	8.12	**Screen Submerged (ft)?**	
Drawdown:	0.06	**ft**	-0.69	**Silt Buildup (ft)**	
Ferric Iron:	0	**mg/L**			
Ferrous Iron:	0	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1016	22.69	7.35	58	53	2.2	1.7
1021	22.91	7.13	70	54	0	1.33
1026	23.51	6.98	80	54	0	1.26
1031	23.9	6.94	83	53	0	0.81
1036	24.25	6.91	86	52	0	1.07
1041	24.55	6.89	88	51	0	0.92
1044	24.73	6.89	89	51	0	0.75
1047	24.86	6.88	90	51	0	0.76
1050	25.16	6.88	90	51	0	1.15
1053	25.39	6.88	91	50	0	1.02
1056	25.56	6.89	91	49	0	1.06
1059	25.75	6.89	92	49	0	1.2
1102	25.96	6.9	92	48	0	0.93
1105	26.15	6.91	92	48	0	0.72
1108	26.37	6.92	91	48	0	0.65
1111	26.58	6.93	91	47	0	0.58
1114	26.81	6.93	91	47	0	0.57
1117	27.03	6.94	91	47	0	0.56

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

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Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-12	**82.89**	5.33	**11.0-21.0**	6/12/2025	1513	24.64

Final GW Depth:	5.26	**depth to GW (ft)**	8.71	**Screen Submerged (ft)?**	
Drawdown:	-0.07	**ft**	-0.6	**Silt Buildup (ft)**	
Ferric Iron:	0.61	**mg/L**			
Ferrous Iron:	0.5	**mg/L**			

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1448	24.53	5.78	67	190	3.7	1.38
1453	24.43	5.85	35	199	2.7	0.66
1458	24.27	5.85	24	202	2.7	0.43
1503	24.23	5.86	25	199	2.1	0.36
1508	24.25	5.88	24	194	2	0.33
1513	24.32	5.9	24	191	1.6	0.3

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

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Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-13	**82.89**	5.19	**31.0-36.0**	6/12/2025	1616	39.12
Final GW Depth:	5.13	**depth to GW (ft)**		28.63	**Screen Submerged (ft)?**	
Drawdown:	-0.06	**ft**		-0.3	**Silt Buildup (ft)**	
Ferric Iron:	2.65	**mg/L**				
Ferrous Iron:	2.76	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1545	25.84	6.25	5	3100	11	2.13
1550	25.94	6.51	-57	3340	5	0.82
1555	26.04	6.55	-60	3320	4.2	0.41
1600	26.16	6.55	-63	3270	4	0.32
1605	26.27	6.54	-63	3220	3.5	0.36
1610	26.38	6.52	-64	3190	3.3	0.3
1613	26.43	6.5	-63	3170	3.2	0.33
1616	26.47	6.48	-64	3160	2.9	0.31

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

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Cross Generating Station

CCR CMA/NE Bottom Ash Pond Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
CCMAP-14	**82.89**	4.07	**12.0-22.0**	6/12/2025	1308	25.27
Final GW Depth:	4.11	**depth to GW (ft)**		10.74	**Screen Submerged (ft)?**	
Drawdown:	0.04	**ft**		-0.46	**Silt Buildup (ft)**	
Ferric Iron:	0.52	**mg/L**				
Ferrous Iron:	0.62	**mg/L**				

Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1237	30.8	5.2	-11	243	0	1.13
1242	30.36	5.27	-5	261	1.7	0.56
1247	29.89	5.38	-4	247	2.6	0.38
1252	29.48	5.33	4	239	2.9	0.31
1257	29.12	5.39	4	233	3.1	0.29
1302	28.77	5.35	11	227	3.2	0.26
1305	28.62	5.38	10	227	2.8	0.25
1308	28.45	5.35	14	222	2.4	0.25

Samples were collected by Ashton Poole and Evan Amick

Comments/Conditions:

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