

**2025 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
CLASS 3 LANDFILL AREA 1
WINYAH GENERATING STATION**

**by Santee Cooper
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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 closed coal combustion residuals (CCR) management unit referred to as Class 3 Landfill Area 1 located at the Winyah Generating Station (WGS) in Georgetown, South Carolina. This 2025 Annual Report was prepared to comply with the United States Environmental Protection Agency (EPA) Hazardous and Solid Waste Management System; Disposal of CCR from Electric Utilities, Title 40 Code of Federal Regulations (CFR) Part 257, Subpart D dated April 17, 2015 (CCR Rule), specifically subsection § 257.90(e)(1) through (6).

The WGS Class 3 Landfill Area 1 is a CCR unit with a shared footprint within a former CCR unit, the closed Unit 2 Slurry Pond. Of note, the Unit 2 Slurry Pond was an inactive CCR Pond as defined by 40 CFR § 257.53 prior to, and following, the effective date of the CCR Rule. Santee Cooper filed a Notice of Intent (NOI) to initiate closure of the Unit 2 Slurry Pond and placed the NOI in the facility's operating record in December 2015. The South Carolina Department of Environmental Services (SCDES), formerly the South Carolina Department of Health and Environmental Control (SCDHEC), certified closure by removal was complete in accordance with SCDES regulations on November 9, 2017. Afterwards, Santee Cooper constructed the Class 3 Landfill Area 1 within the footprint of the excavated and closed Unit 2 Slurry Pond. Because both units occupy the same space, the groundwater monitoring network installed to monitor the Class 3 Landfill Area 1 was also appropriate for the closed Unit 2 Slurry Pond and complied with § 257.91. Santee Cooper certified closure by removal on July 10, 2023, for the closed Unit 2 Slurry Pond in accordance with § 257.102(c). Therefore, beginning with the 2025 annual reporting period, the closed Unit 2 Slurry Pond no longer requires groundwater monitoring or annual reporting.

As background on the Class 3 Landfill Area 1, construction was completed in 2018 and operations commenced November 2, 2018, with the initial placement of waste. The initial statistical analysis conducted following the first round of detection monitoring identified statistically significant increases (SSIs) above background levels of one or more Appendix III constituents. Since Landfill Area 1 was constructed in the excavated footprint of a previously existing industrial wastewater pond, the Closed Unit 2 Slurry Pond, and Appendix III constituents were detected during baseline sampling prior to the initial placement of waste in the landfill, an Alternate Source Demonstration (ASD) was conducted in 2019, as defined in 40 CFR § 257.94(e)(2). The initial 2019 ASD found the Closed Unit 2 Slurry Pond was the alternate source of the SSIs identified during 2019 detection monitoring. The ASD compared groundwater quality conditions downgradient of Landfill Area 1 (prior to receiving CCRs) to the Appendix III constituent concentrations detected after Landfill Area 1 began operations. The ASD's conclusion was not unexpected because the Appendix III constituents attributed to the Closed Unit 2 Slurry Pond were identified in groundwater prior to initial placement of CCRs in Landfill Area 1.

In January 2022, SSIs for fluoride, boron, and chloride were identified, prompting a second ASD in October 2022 to reassess the previously identified alternate source and assess the possibility of additional sources that could be the cause of the SSIs at the Class 3 Landfill Area 1. The October 2022 ASD again concluded that the closed Unit 2 Slurry Pond was the source for the Appendix III SSIs. During a 2024 detection monitoring event, an SSI for calcium was identified and third ASD conducted in October 2024 concluded that the SSI was not associated with the Class 3 Landfill Area 1. Accordingly, the landfill continued in detection monitoring.

Most recently, after completion of the June 2025 detection monitoring event and associated December 2025 statistical report, a boron SSI was identified at WFL-A1-2 and a pH statistically significant decrease

(SSD) was identified for WFL-A1-4. In accordance with the 2015 Federal Coal Combustion Residuals (CCR) Rule, a fourth ASD was initiated.

On June 14, 2024, all CCR material placement into the Class 3 Landfill Area 1 ceased, which officially initiated closure. Santee Cooper placed a Notice of Intent to Initiate Closure of the landfill in the operating record and on the public website dated June 28, 2024, in accordance with § 257.102(g) and § 257.107(i)(1). Additionally, a Notice of Intent to Close was submitted to SCDES on February 7, 2024, to comply with the state Class 3 Landfill Permit #LF3-00042 requirements. The Class 3 Landfill Area 1 ceased closure activities on July 24, 2024. Santee Cooper provided a Notification of Closure on August 20, 2024, in accordance with § 257.102(h). A Certification of Closure was also provided to SCDES on August 23, 2024. SCDES approved final closure of the Class 3 Landfill Area 1 on October 9, 2024.

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

At the start of the current annual reporting period (January 1, 2025), the Class 3 Landfill Area 1 continued to operate under a detection monitoring program in accordance with § 257.94. Based on the February 2025 sampling event, no SSIs were identified. During the June 2025 semi-annual sampling event, an SSI was identified for boron in monitoring well WLF-A1-1 and an SSD was identified for pH in WLF-A1-4. The unit will continue in detection monitoring until the ASD for boron has been completed (February 2026).

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 Class 3 Landfill Area 1 at WGS is subject to the groundwater monitoring and corrective action requirements set forth by the EPA in the Code of Federal Regulations 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Landfill Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

2.2 40 CFR § 257.90(e) - SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and

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

This Annual Report documents the activities completed in 2025 for the Class 3 Landfill Area 1 at WGS as required by the Groundwater Monitoring and Corrective Action regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.94, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

With the initial detection monitoring event for the Class 3 Landfill Area 1, SSIs of Appendix III constituents (boron, calcium, chloride, pH, sulfate, and total dissolved solids) were identified in multiple downgradient wells; therefore, notification was provided and an evaluation of alternate sources was conducted for the Class 3 Landfill Area 1. The successful ASD completed in October 2019 concluded that the excavated and closed Unit 2 Slurry Pond was responsible for the Appendix III SSIs and the Class 3 Landfill Area 1 was not the source. Thus, the Class 3 Landfill Area 1 continued in detection monitoring.

New SSIs of boron, chloride, and fluoride were identified for the Class 3 Landfill Area 1 in 2022. Thus, a second ASD was conducted to evaluate the potential of Class 3 Landfill Area 1 as a contributing source to the SSIs. The second successful ASD supported the findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. This successful ASD, which again identified the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill Area 1's Appendix III SSIs, was completed and placed in the operating record on October 25, 2022, and the Class 3 Landfill Area 1 remained in detection monitoring pursuant to § 257.94(e)(2).

An SSI of calcium at monitoring well WLF-A1-2 and an SSI for chloride were identified in monitoring well WLF-A1-5 during the 2024 groundwater monitoring program's statistical analyses. A successful ASD was completed in October 2024 which again provided evidence that the SSIs continued to be due to the Closed Unit 2 Slurry Pond. Additionally, statistical limitations were an alternate source regarding the calcium SSI.

No SSIs were identified during the February 2025 sampling event. During the June and July 2025 sampling event, SSIs were identified for boron in monitoring well WLF-A1-1 and pH in WLF-A1-4. Based on these results, an ASD will be completed for boron at the Class 3 Landfill. Therefore, at the end of the current annual reporting period (December 31, 2025), the Class 3 Landfill Area 1 remained in detection monitoring, pending the outcome of a subsequent ASD re-evaluation to be completed in 2026.

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 (February and June) in accordance with § 257.94 and § 257.95 and recorded the concentrations in the facility's operating record as required by § 257.94(f) and § 257.95(i). Confirmation samples were collected (October) for a limited number of monitoring wells and constituents. Groundwater monitoring results are summarized in Table 1 and laboratory analytical results are provided in Appendix B.
- Completed statistical evaluations to determine statistically significant increases for Appendix III constituents in accordance with § 257.93(h)(2) (Appendix A).
- Updated the statistical upper tolerance limits for background wells WBW-A1-1 after the second semi-annual sampling event of 2025 in accordance with the Unified Guidance.
- Continued potentiometric surface characterization of the uppermost aquifer given changing site conditions by completing sitewide synoptic water level measurements on an approximately quarterly basis to continue to evaluate temporal changes.
- The WGS Groundwater Monitoring Plan was updated in December 2025 to make general revisions and improvements to reflect changes in site conditions and procedures. It will continue to be revised as necessary.
- The WGS 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.
- Revised the WGS Statistical Data Analysis Plan.

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 operating record as required by § 257.105(h)(1); notify the state [§ 257.106(d)]; and post to website [§ 257.107(d)].
- Complete the in-progress ASD (February 2026) as required by § 257.94 (e) (2).
- Conduct semi-annual groundwater monitoring as required by § 257.94.
- Conduct statistical analysis of the detection monitoring analytical data to determine if SSIs of the detected Appendix III constituents are present for the Class 3 Landfill Area 1 and verify ongoing validity of the certified October 2019, October 2022, October 2024, and February 2026 ASDs.
- Continue potentiometric surface characterization of the uppermost aquifer given changing site conditions by expanding the number of locations for collecting surface water elevations from unlined ponds.

- Evaluate turbidity, oxidation-reduction potential, and well screen submersion trends sitewide in wells and identify wells to be redeveloped by more invasive methods to remove buildup of sediment fines and suspected biofouling on the well screens.

2.3 40 CFR § 257.90(e) - INFORMATION

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

2.3.1 § 257.90(e)(1) AERIAL IMAGE OF GROUNDWATER MONITORING PROGRAM

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

As required by § 257.90(e)(1), a map showing the location of the Class 3 Landfill Area 1 and associated upgradient and downgradient monitoring wells is included in this report as Figure 1. The groundwater monitoring network meets the requirements of § 257.91.

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

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

Monitoring wells were neither installed nor decommissioned during 2025.

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

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

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

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

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition

to identifying the constituent(s) detected at a statistically significant increase over background levels);

As required by § 257.93(h), Haley & Aldrich performed a statistical analysis of the Appendix III constituents detected in groundwater downgradient of the Class 3 Landfill Area 1 to evaluate the potential for SSIs. A summary of the statistical evaluation is provided in Appendix A of this report.

Since the commencement of operations of the Class 3 Landfill Area 1 in November 2018, the unit has remained in detection monitoring with a series of successful ASDs beginning with the initial ASD conducted in 2019, as defined in 40 CFR § 257.94(e)(2). The initial 2019 ASD found the pre-existing closed Unit 2 Slurry Pond was the alternate source of the SSIs.

As noted earlier in this Annual Report, new SSIs of boron, chloride, and fluoride were identified for the Class 3 Landfill Area 1 in 2022. Because these were new SSIs associated with monitoring the Class 3 Landfill Area 1, a second ASD was conducted to evaluate the potential of the Class 3 Landfill Area 1 to be a contributing source to the SSIs. The second successful ASD supported the findings of the initial ASD and provided evidence that the Class 3 Landfill Area 1 was not a contributing source. This successful ASD, which again identified the closed Unit 2 Slurry Pond as the source of the Class 3 Landfill Area 1's Appendix III SSIs, was completed and placed in the operating record on October 25, 2022. SSIs in the 2023 groundwater monitoring events are supported by these two successful ASDs. Additional SSIs of calcium and chloride were identified during the February and July sampling events of 2024, leading to a third ASD which was completed in October 2024, successfully attributing these additional SSIs to statistical limitations and, again, to the previously existing Closed Unit 2 Slurry Pond. An SSI for boron in monitoring well WLF-A1-1 and an SSD for pH in WLF-A1-4 were identified during the June 2025 sampling event. The unit will continue in detection monitoring until the ASD for boron has been completed (February 2026).

Therefore, the Class 3 Landfill Area 1 remains in the detection monitoring program as required by § 257.94(e)(2).

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

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

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

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

TABLES

**Table 1 - Summary of Analytical Results
Winyah Generating Station Class 3 Landfill Area 1 Detection Monitoring 2025**

Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number	Appendix III Constituents							Field Parameters								
				Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH	Depth to Groundwater	Groundwater Elevation	pH	Specific Conductivity	Temperature	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen	
				Unit	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	SU	Feet	Feet	SU	uS	C	mv	NTU	ppm
				Method	EPA 6010D	EPA 6020B	EPA 300.0	EPA 300.0	EPA 300.0	SM 2540C							SM2580		
GWPS/ US EPA MCL/RSL	---	---	---	4.00	---	---	---	---	---	---	---	---	---	---	---				
Site Background Wells																			
WBW-A1-1	Background	2/26/2025	AG25165	60.5	62.5	12.5	0.103	379	257.5	4.69	7.25	20.89	4.69	426	19.76	26	2.3	1.14	
WBW-A1-1	Background	6/23/2025	AG36912	74.4	66.2	11.5	<0.10	173	270	4.51	7.38	20.76	4.51	409	26.84	40	0	0.460	
WBW-A1-1	total samples			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Class 3 Landfill Area 1 Wells																			
WAP-7	Detection	2/25/2025	AG25129	2690	538	26.6	<0.100	1010	1968	6.57	10.59	19.35	6.57	2210	21.40	-276	3.9	0.300	
WAP-7	Detection	6/25/2025	AG36878	490	290	13.8	<0.10	574	1050	6.05	9.79	20.15	6.05	1290	24.97	32	0	0.430	
WAP-7	total samples			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
WLF-A1-1	Detection	2/26/2025	AG25166	442	250	9.88	<0.100	159	895	6.18	18.39	22.96	6.18	1170	23.01	-39	14.5	0.790	
WLF-A1-1	Detection	6/24/2025	AG36913	415	222	11.5	<0.10	301	805	6.16	17.95	23.4	6.16	1020	30.82	-20	10.0	0.330	
WLF-A1-1	total samples			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
WLF-A1-2	Detection	2/26/2025	AG25167	2280	193	121	<0.100	310	842.5	6.12	7.32	21.89	6.12	1100	19.65	-241	0.8	5.47	
WLF-A1-2	Detection	6/25/2025	AG36914	2720	185	142	<0.10	304	902.5	5.88	7.46	21.75	5.88	928	28.55	-178	0	0.180	
WLF-A1-2	Confirmation	10/29/2025	AG50066	690	***	***	***	***	***	5.19	5.24	23.97	5.19	386	20.5	-99	2.5	0.8	
WLF-A1-2	total samples			3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	
WLF-A1-3	Detection	2/26/2021	AG25169	93	15.1	3.22	<0.100	60.6	77.5	4.26	7.04	21.27	4.26	158	19.40	-23	0	0.370	
WLF-A1-3	Detection	6/24/2025	AG36915	79.4	13.6	3.46	<0.10	51.9	97.5	4.01	6.94	21.37	4.01	154	24.70	85	2.2	3.40	
WLF-A1-3	total samples			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
WLF-A1-4	Detection	2/27/2025	AG25170	144	59.6	3.30	<0.100	53.1	200	6.38	6.85	21.39	6.38	307	18.01	-50	4.0	0.570	
WLF-A1-4	Duplicate	2/27/2025	AG25171	143	58.6	3.31	<0.100	54.2	205	***	***	***	***	***	***	***	***	***	
WLF-A1-4	Detection	6/24/2025	AG36916	108	38.4	3.93	<0.10	47.1	162.5	5.51	6.59	21.65	5.51	221	22.83	-30	0.2	0.490	
WLF-A1-4	Duplicate	6/24/2025	AG36917	105	37.6	3.87	<0.10	46.6	175	***	***	***	***	***	***	***	***	***	
WLF-A1-4	Confirmation	10/30/2025	AG50067	***	***	***	***	***	***	5.54	4.68	23.56	5.54	150	21.49	178	8	2.19	
WLF-A1-4	total samples			4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	
WLF-A1-5	Detection	2/26/2025	AG25172	2030	273	134	<0.100	358	1098	6.95	16.94	20.7	6.95	1470	22.58	-99	4.8	3.65	
WLF-A1-5	Detection	6/24/2025	AG36918	2200	272	146	<0.10	383	1205	6.97	15.69	21.95	6.97	1460	27.63	-86	2.8	0.370	
WLF-A1-5	total samples			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

Notes: 1. All groundwater samples collected from the monitoring wells were analyzed by South Carolina Certified laboratories: Santee Cooper Analytical Services (Certification # 08552), GEL Laboratories, LLC (Certification # 10120), Eurofins (Certification # 98001), Davis & Brown (Certification # 21117), Shealy Environmental Services, Inc (Certification # 32010), Test America Laboratories Inc. Savannah (Certification # 98001), Rogers & Callcot, Inc. (Certification # 23105001), and Pace Analytical Services LLC (Certification #99030).

2. All Background and Detection Monitoring compliance wells have been sampled to meet § 257.94.
3. Due to challenges with laboratory delays, all groundwater samples were not analyzed by a single laboratory. This accounts for the majority of the reporting limit variability. Matrix interference also contributed to variable RLs.
4. Depth to groundwater is measured below the top of the casing (btoc) to the water surface. Elevation is shown relative to mean sea level (msl).
5. *** means not collected. Mainly pertinent for duplicate samples.

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

Well Name	TOC Elevation (ft msl)	1st Event - 2/17/2025		2nd Event - 4/23/2025		3rd Event - 6/23/2025		4th Event - 11/4/2025	
		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)
WBW-1	31.97	7.94	24.03	8.41	23.56	8.37	23.6	7.35	24.62
PZ-1	31.25	9.91	21.34	10.86	20.39	10.44	20.81	8.29	22.96
WAP-1	29.44	8.88	20.56	6.41	23.03	6.19	23.25	5.05	24.39
WAP-2	23.69	7.32	16.37	8.09	15.6	7.81	15.88	7.75	15.94
WAP-2R	24.29	7.65	16.64	8.4	15.89	8.08	16.21	7.43	16.86
WAP-3	19.43	8.84	10.59	9.89	9.54	8.69	10.74	8.49	10.94
WAP-4	20.34	7.8	12.54	8.73	11.61	7.04	13.3	7.4	12.94
WAP-5	26.25	9.79	16.46	10.79	15.46	9.77	16.48	10.1	16.15
WAP-6	30.98	5.54	25.44	9.33	21.65	8.63	22.35	6.94	24.04
WAP-7	29.94	10.62	19.32	10.41	19.53	9.59	20.35	9.48	20.46
WAP-8	30.38	11.61	18.77	11.31	19.07	10.82	19.56	10.51	19.87
WAP-9	28.04	10.61	17.43	11.36	16.68	10.3	17.74	10.26	17.78
WAP-10	26.11	6.86	19.25	7.77	18.34	7.11	19	6.88	19.23
WAP-11	9.55	5.39	4.16	6.19	3.36	6.07	3.48	5.21	4.34
WAP-12	30.84	8.15	22.69	10.52	20.32	9.96	20.88	10.08	20.76
WAP-13	21.97	10.79	11.18	11.95	10.02	10.45	11.52	11.01	10.96
WAP-14	14.69	6.19	8.5	8.36	6.33	6.15	8.54	6.95	7.74
WAP-14A	13.95	5.46	8.49	7.09	6.86	5.66	8.29	6.09	7.86
WAP-14B	9.23	5.49	3.74	6.51	2.72	5.68	3.55	5.61	3.62
WAP-14C	13.88	10.58	3.3	11.42	2.46	10.37	3.51	10.48	3.4
WAP-15	22.17	8.14	14.03	9.29	12.88	7.73	14.44	8.08	14.09
WAP-16	25.08	11.41	13.67	11.91	13.17	11.37	13.71	12.81	12.27
WAP-17	26.88	6.82	20.06	7.37	19.51	6.54	20.34	6.58	20.3
WAP-18	31.04	11.6	19.44	11.56	19.48	11	20.04	10.46	20.58
WAP-19	43.39	24.05	19.34	24.06	19.33	23.26	20.13	22.81	20.58
WAP-21	43.06	25.08	17.98	25.11	17.95	24.61	18.45	24.13	18.93
WAP-22	30.32	10.8	19.52	10.66	19.66	10.27	20.05	9.91	20.41
WAP-23	43.23	25.55	17.68	25.52	17.71	25.03	18.2	25	18.23
WAP-24	28.77	9.34	19.43	10.07	18.7	9.4	19.37	9.04	19.73
WAP-25	27.1	8.6	18.5	8.58	18.52	8.16	18.94	7.79	19.31
WAP-26	27.56	6.1	21.46	9.76	17.8	8.73	18.83	7.54	20.02
WAP-27	43.18	25.26	17.92	25.27	17.91	24.84	18.34	24.67	18.51
WAP-28	23.09	11.86	11.23	12.57	10.52	11.69	11.4	11.86	11.23
WAP-28R	20.27	9.19	11.08	9.91	10.36	9.04	11.23	9.16	11.11
WAP-29	12.34	7.28	5.06	8.09	4.25	7.57	4.77	7.59	4.75
WAP-30	43.37	25.59	17.78	25.56	17.81	25.06	18.31	25.03	18.34
WBW-A1-1	28.14	7.16	20.98	8.67	19.47	7.38	20.76	6.99	21.15
WLF-A1-1	41.35	18.33	23.02	19.12	22.23	17.83	23.52	17.17	24.18
WLF-A1-2	29.21	7.29	21.92	8.14	21.07	7.14	22.07	5.69	23.52
WLF-A1-3	28.31	6.92	21.39	7.85	20.46	6.86	21.45	5.28	23.03
WLF-A1-4	28.24	6.73	21.51	7.49	20.75	6.52	21.72	5.12	23.12
WLF-A1-5	37.64	16.92	20.72	17.11	20.53	16.57	21.07	16.51	21.13
WLF-A2-1	30.04	10.69	19.35	10.59	19.45	10.06	19.98	9.64	20.4
WLF-A2-2	27.56	8.16	19.4	8.17	19.39	7.56	20	7.2	20.36
WLF-A2-6	35.14	15.31	19.83	15.66	19.48	14.76	20.38	14.57	20.57
WGS-PSE-1	-	-	19.71	-	18.85	-	20.61	-	21.74
WGS-PSE-2	-	-	32.50	-	32.42	-	33.38	-	19.96
WGS-PSE-3	-	-	15.83	-	11.91	-	16.73	-	15.83
WGS-PSE-4	-	-	7.91	-	8.31	-	9.09	-	8.26
WGS-PSE-5	-	-	19.20	-	19.35	-	19.85	-	20.10
WGS-PSE-6	-	-	15.11	-	15.42	-	15.43	-	15.33
WGS-PSE-7	-	-	18.63	-	17.17	-	16.73	-	17.39
WGS-PSE-8	-	-	23.72	-	23.46	-	23.40	-	24.36
WGS-PSE-9	-	-	23.89	-	23.50	-	23.16	-	24.65
WSE AT WAP-21	-	-	15.08	-	14.90	-	15.07	-	14.90
WSE AT WAP-21	-	-	18.87	-	19.29	-	19.78	-	19.77
WSE AT WAP-27	-	-	14.58	-	14.25	-	14.82	-	13.76
WSE AT WAP-27	-	-	18.72	-	19.31	-	19.66	-	19.81
WSE AT WAP-19	-	-	35.81	-	NA	-	NA	-	32.28
WSE AT WAP-19	-	-	19.16	-	19.30	-	19.88	-	20.11
WSE AT WLF-A2-2	-	-	36.16	-	33.60	-	35.27	-	NA
WSE AT WLF-A2-2	-	-	18.91	-	19.25	-	19.81	-	19.86
WSE AT PUMP	-	-	13.43	-	13.74	-	15.94	-	15.54
WSE AT PUMP	-	-	14.41	-	14.25	-	14.58	-	13.09

Notes:

1. Additional groundwater monitoring wells used for development 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

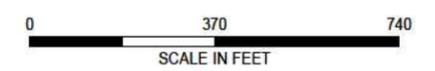


LEGEND

-  CLASS 3 LANDFILL AREA 1 BACKGROUND WELL
-  UNIT 2 SLURRY POND/CLASS 3 LANDFILL AREA 1 WELL
-  CCR UNIT BOUNDARY
-  PROPERTY BOUNDARY
-  POND WATER SURFACE ELEVATION MEASUREMENT LOCATION

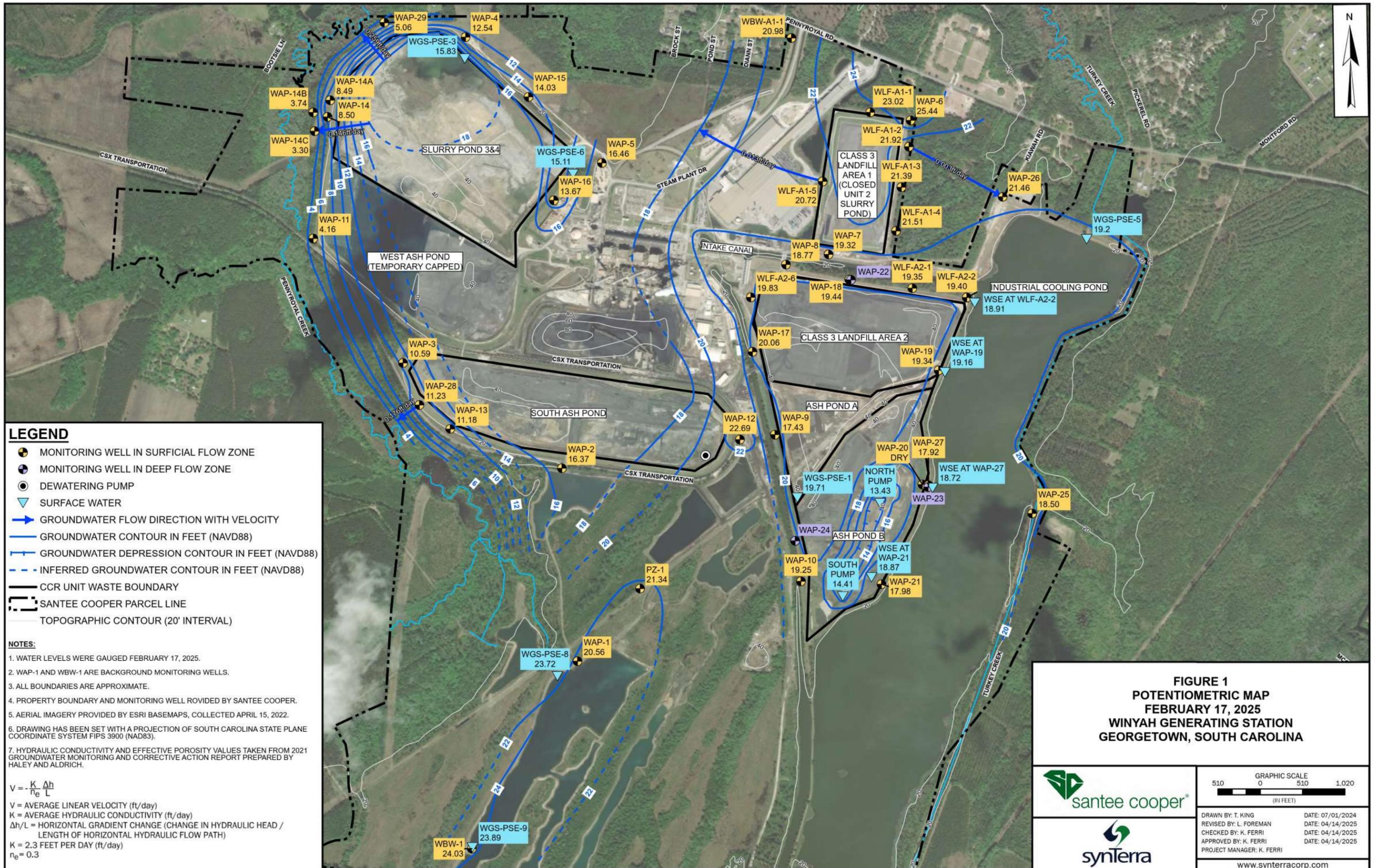
NOTES

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



SANTEE COOPER
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**LOCATION OF CLASS 3 LANDFILL AREA 1
 GROUNDWATER MONITORING WELLS
 FOR CCR COMPLIANCE**



LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- DEWATERING PUMP
- SURFACE WATER
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED FEBRUARY 17, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83).
7. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

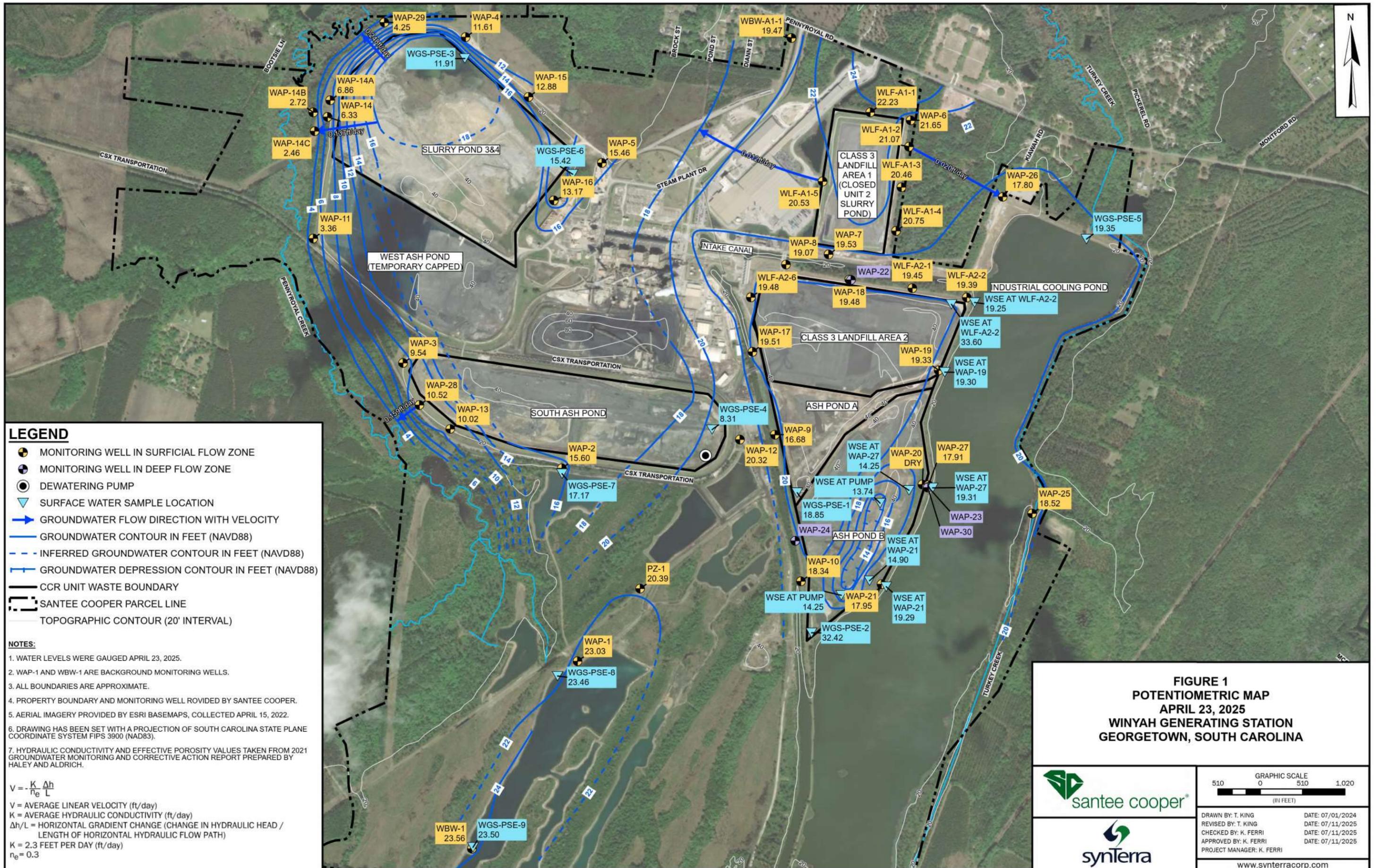
$$v = -\frac{K}{n_e} \frac{\Delta h}{L}$$

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)
 $K = 2.3$ FEET PER DAY (ft/day)
 $n_e = 0.3$

FIGURE 1
POTENTIOMETRIC MAP
FEBRUARY 17, 2025
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA



GRAPHIC SCALE	
510	1,020
(IN FEET)	
DRAWN BY: T. KING	DATE: 07/01/2024
REVISOR BY: L. FOREMAN	DATE: 04/14/2025
CHECKED BY: K. FERRI	DATE: 04/14/2025
APPROVED BY: K. FERRI	DATE: 04/14/2025
PROJECT MANAGER: K. FERRI	
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LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- DEWATERING PUMP
- ▽ SURFACE WATER SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
- - - INFERRED GROUNDWATER CONTOUR IN FEET (NAVD88)
- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- - - SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

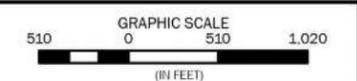
NOTES:

1. WATER LEVELS WERE GAUGED APRIL 23, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL ROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83).
7. HYDRAULIC CONDUCTIVITY AND EFFECTIVE POROSITY VALUES TAKEN FROM 2021 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PREPARED BY HALEY AND ALDRICH.

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

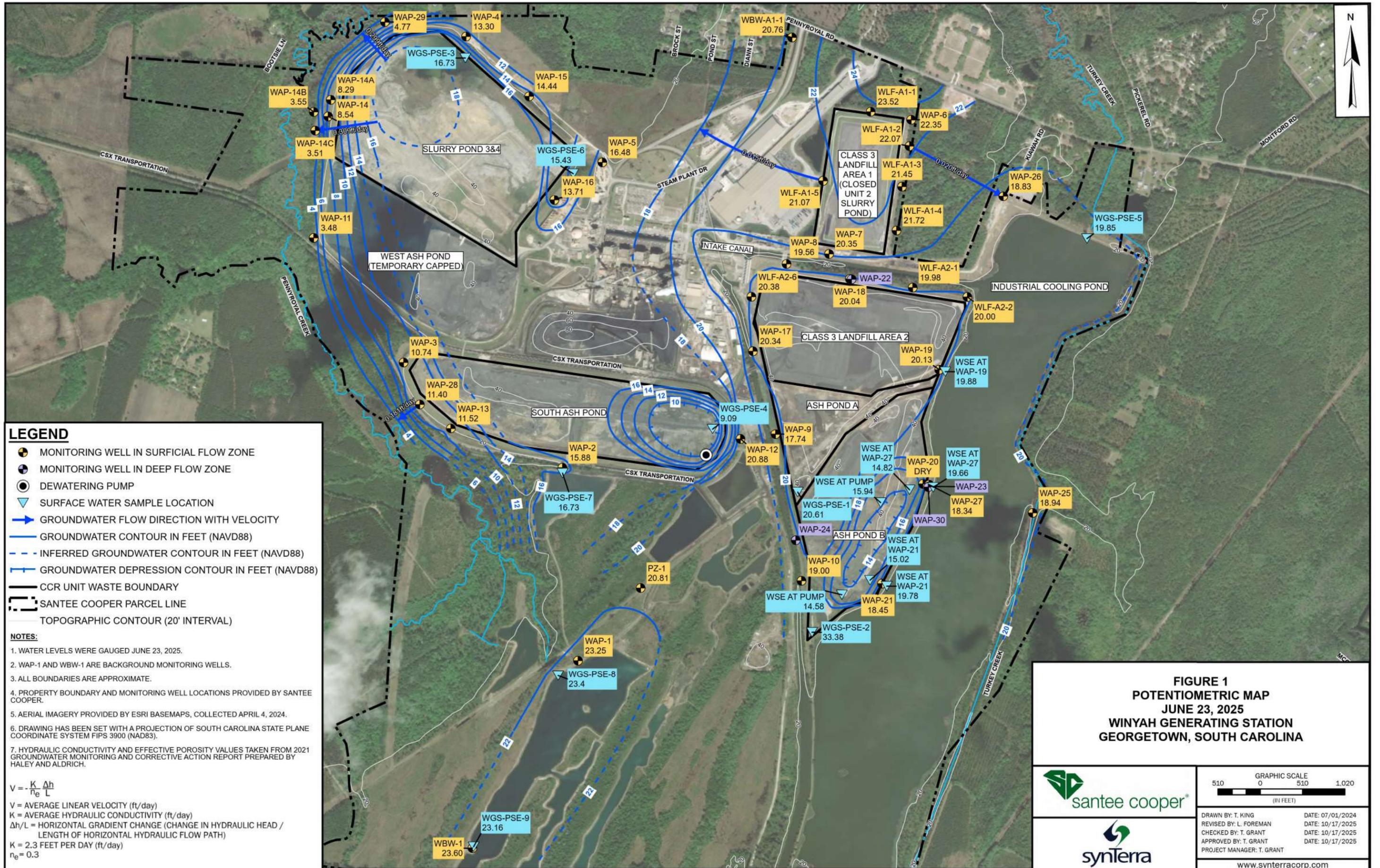
v = AVERAGE LINEAR VELOCITY (ft/day)
 K = AVERAGE HYDRAULIC CONDUCTIVITY (ft/day)
 $\Delta h/L$ = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
 $K = 2.3$ FEET PER DAY (ft/day)
 $n_e = 0.3$

FIGURE 1
POTENTIOMETRIC MAP
APRIL 23, 2025
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA



DRAWN BY: T. KING DATE: 07/01/2024
 REVISED BY: T. KING DATE: 07/11/2025
 CHECKED BY: K. FERRI DATE: 07/11/2025
 APPROVED BY: K. FERRI DATE: 07/11/2025
 PROJECT MANAGER: K. FERRI

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LEGEND

- MONITORING WELL IN SURFICIAL FLOW ZONE
- MONITORING WELL IN DEEP FLOW ZONE
- DEWATERING PUMP
- ▽ SURFACE WATER SAMPLE LOCATION
- GROUNDWATER FLOW DIRECTION WITH VELOCITY
- GROUNDWATER CONTOUR IN FEET (NAVD88)
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- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- - - SANTEE COOPER PARCEL LINE
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

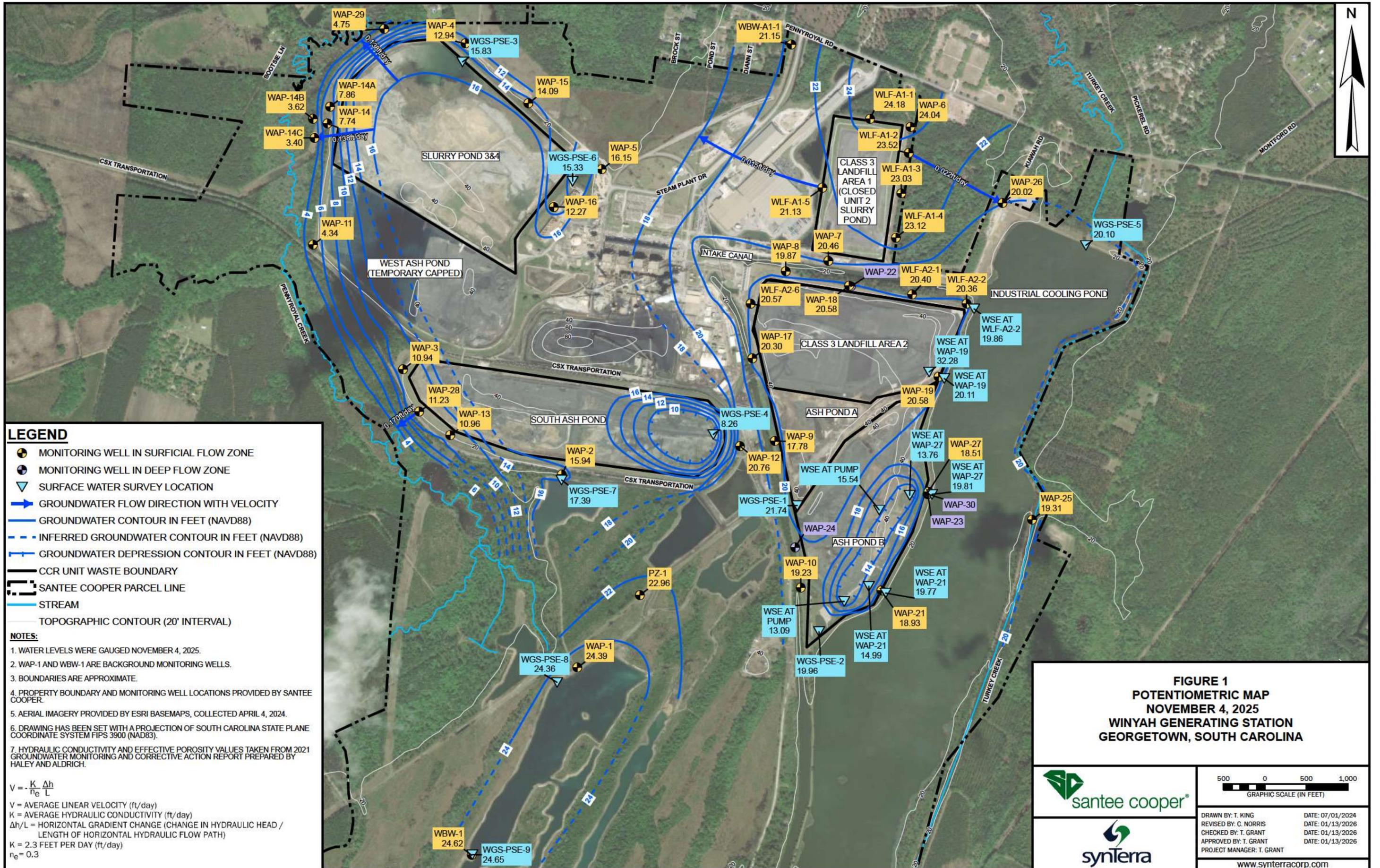
- NOTES:**
1. WATER LEVELS WERE GAUGED JUNE 23, 2025.
 2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
 3. ALL BOUNDARIES ARE APPROXIMATE.
 4. PROPERTY BOUNDARY AND MONITORING WELL LOCATIONS PROVIDED BY SANTEE COOPER.
 5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 4, 2024.
 6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83).
 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)
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 $K = 2.3$ FEET PER DAY (ft/day)
 $n_e = 0.3$

**FIGURE 1
 POTENTIOMETRIC MAP
 JUNE 23, 2025
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA**

	GRAPHIC SCALE 510 0 510 1,020 (IN FEET)
	DRAWN BY: T. KING DATE: 07/01/2024 REVISED BY: L. FOREMAN DATE: 10/17/2025 CHECKED BY: T. GRANT DATE: 10/17/2025 APPROVED BY: T. GRANT DATE: 10/17/2025 PROJECT MANAGER: T. GRANT
	www.synTerraCorp.com



LEGEND

- MONITORING WELL IN SURFICIAL 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)
- GROUNDWATER DEPRESSION CONTOUR IN FEET (NAVD88)
- CCR UNIT WASTE BOUNDARY
- SANTEE COOPER PARCEL LINE
- STREAM
- TOPOGRAPHIC CONTOUR (20' INTERVAL)

NOTES:

1. WATER LEVELS WERE GAUGED NOVEMBER 4, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL LOCATIONS PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 4, 2024.
6. DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83).
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)
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 $\Delta h/L$ = HORIZONTAL GRADIENT CHANGE (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
 $K = 2.3$ FEET PER DAY (ft/day)
 $n_e = 0.3$

**FIGURE 1
 POTENTIOMETRIC MAP
 NOVEMBER 4, 2025
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA**

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

DRAWN BY: T. KING	DATE: 07/01/2024
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	

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

SUBJECT: Statistical Evaluation of the February 2025 Semiannual Groundwater Detection Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 1

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the February 2025 semiannual detection monitoring event for the Winyah Generating Station (WGS) Class 3 Landfill Area 1. Data for this groundwater sampling event were validated on April 31, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

After completion of baseline sampling, the initial statistical analysis identified statistically significant increases (SSIs) for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. During the previous groundwater sampling event, calcium was the only Appendix III constituent detected with an SSI. Recognizing the Unit 2 Slurry Pond was previously located in the footprint of Class 3 Landfill Area 1 and had been closed by removal of coal combustion residual (CCR) material pursuant to state regulatory requirements, alternative source demonstrations (ASDs) were completed in September 2019, October 2022, and again in October 2024. The September 2019 ASD concluded that the closed Unit 2 Slurry Pond was the alternate source of the Appendix III constituents that had SSIs at that time. The October 2022 ASD again concluded that the Unit 2 Slurry Pond was the source for the Appendix III SSIs, and accordingly, the Class 3 Landfill Area 1 was not the source of the fluoride, boron, and chloride SSIs. The October 2024 ASD concluded that prior SSIs associated with Appendix III constituents continued to be directly associated with the Unit 2 Slurry Pond, and the SSI specific to calcium was due to a statistical limitation. As a result of the successful ASDs, the Class 3 Landfill Area 1 remains in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR unit (40 CFR §257.93(f) (1-4)) represents an SSI of Appendix III parameters compared to baseline groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

To statistically evaluate the analytical results, the baseline prediction limit (PL), which is a type of prediction interval method, was selected to evaluate the data. The prediction interval method is one of the methods outlined in the Rule. A prediction interval procedure is where a concentration limit for each

constituent is established from the distribution of the background data, with a specified confidence level (e.g., 95 percent). The upper endpoint of a concentration limit is called the upper prediction limit (UPL), and the lower endpoint is called the lower prediction limit (LPL). Depending on the baseline data distribution, parametric or non-parametric prediction limit procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via a transformation of the sample background data.

If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the prediction limit. If all the baseline data are non-detect, a maximum reporting limit (RL) may serve as an approximate UPL. We note that depending on the available sample size, prediction limits (PLs) generated from non-parametric or maximum reporting limits may not achieve the same target statistical confidence limits as the parametric PLs. In the case of the Class 3 Landfill Area 1, the statistical analysis was conducted using both parametric and non-parametric PLs.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), baseline concentrations were based on statistical evaluation of analytical results collected through February 2025 and updated in the Statistical Output produced with R programming software (Attachment A). The background dataset was updated during this sampling event in Table 1 and will be updated after four additional data points are collected (first 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 36 downgradient well/constituent data sets that were evaluated for recent trends, 67 percent had decreasing or stable trends and 33 percent were variable with no statistically significant trend. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF DETECTION MONITORING DOWNGRADIENT STATISTICAL COMPARISONS

Analytical results for each Appendix III constituent were compared to the background value of that constituent to determine whether an SSI has occurred (Table 1). A sample concentration greater than the UPL (or less than LPL for pH) would indicate an SSI over background. No SSIs were detected using intrawell analysis for this sampling event. Notably, chloride was noted as an SSI at WLF-A1-5 during the previous reporting event but not during this event. Groundwater trends will continue to be monitored during future sampling events. As such, the Class 3 Landfill Area 1 will remain in detection monitoring.

Enclosures:

Table 1 – February 2025 Semiannual Groundwater Detection Monitoring Data
(WGS Class 3 Landfill Area 1)

Attachment A – Statistical Output, February2025

TABLE

TABLE 1
FEBRUARY 2025 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA (WGS CLASS 3 LANDFILL AREA 1)
 WINYAH GENERATING STATION
 CLASS 3 LANDFILL AREA 1

Location	Frequency of Detection	Percent of Detected Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	CCR MCL/RSL	Number of MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Intra-well Analysis				
												Assumed Data Distribution	Sample Date	February 2025 Concentration	Intrawell Prediction Limits ^[b]	Statistically Significant Increases (SSIs)
CCR Appendix III: Boron, Total (mg/L)																
WBW-A1-1	21/21	100%	NA	0.0433	0.0420	0.0661	0.078	34%	NA	NA	No Trend	Parametric	2/26/2025	0.0605	NA	NA
WAP-7	20/20	100%	NA	1.49	0.9	4.00	4.00	92%	NA	NA	Stable	Non-Parametric	2/25/2025	2.69	4.00	No
WLF-A1-1	22/22	100%	NA	2.29	2.45	4.00	4.10	65%	NA	NA	Probably Decreasing	Non-Parametric	2/26/2025	0.442	4.10	No
WLF-A1-2	22/22	100%	NA	0.651	0.46	1.79	2.28	98%	NA	NA	Probably Increasing	Non-Parametric	2/26/2025	2.28	2.28	No
WLF-A1-3	22/22	100%	NA	0.140	0.0985	0.277	0.48	70%	NA	NA	Decreasing	Non-Parametric	2/26/2025	0.093	0.48	No
WLF-A1-4	22/22	100%	NA	0.326	0.265	0.560	1.20	70%	NA	NA	Decreasing	Non-Parametric	2/27/2025	0.144	1.20	No
WLF-A1-5	22/22	100%	NA	2.08	2.01	2.99	3.00	24%	NA	NA	No Trend	Parametric	2/26/2025	2.03	3.700	No
CCR Appendix III: Calcium, Total (mg/L)																
WBW-A1-1	22/22	100%	NA	56	48	93	121	48%	NA	NA	No Trend	Parametric	2/26/2025	62.5	NA	NA
WAP-7	23/23	100%	NA	361	346	675	690	62%	NA	NA	Stable	Parametric	2/25/2025	538	1073	No
WLF-A1-1	22/22	100%	NA	422	420	608	746	36%	NA	NA	Stable	Parametric	2/26/2025	250	911.8	No
WLF-A1-2	22/22	100%	NA	88	77	188	193	76%	NA	NA	No Trend	Parametric	2/26/2025	193	304.2	No
WLF-A1-3	22/22	100%	NA	16	18	26	26	45%	NA	NA	Stable	Parametric	2/26/2025	15.1	37.8	No
WLF-A1-4	22/22	100%	NA	98	88	184	212	51%	NA	NA	Stable	Parametric	2/27/2025	59.6	257.6	No
WLF-A1-5	22/22	100%	NA	245	261	310	321	28%	NA	NA	Stable	Non-Parametric	2/26/2025	273	321.0	No
CCR Appendix III: Chloride, Total (mg/L)																
WBW-A1-1	22/22	100%	NA	15.6	12.4	38.6	67.5	85%	NA	NA	Stable	Non-Parametric	2/26/2025	12.5	NA	NA
WAP-7	23/23	100%	NA	38.8	23.1	108	123	91%	NA	NA	Decreasing	Non-Parametric	2/25/2025	26.6	123	No
WLF-A1-1	22/22	100%	NA	97.0	76.5	251	270	85%	NA	NA	Decreasing	Parametric	2/26/2025	9.88	360	No
WLF-A1-2	21/21	100%	NA	48.1	27.1	122	211	112%	NA	NA	No Trend	Non-Parametric	2/26/2025	121	211	No
WLF-A1-3	22/22	100%	NA	6.82	4.30	6.53	59.3	172%	NA	NA	Stable	Non-Parametric	2/26/2025	3.22	59.3	No
WLF-A1-4	22/22	100%	NA	9.17	6.89	15.9	41.3	86%	NA	NA	Stable	Non-Parametric	2/27/2025	3.3	41.3	No
WLF-A1-5	22/22	100%	NA	134	141	175	183	27%	NA	NA	Stable	Parametric	2/26/2025	134	251	No
CCR Appendix III: Fluoride (mg/L)																
WBW-A1-1	1/21	5%	0.1 - 0.1	0.10	0.10	0.10	0.103	1%	4	0	Not Evaluated	Non-Parametric	2/26/2025	0.103	NA	NA
WAP-7	1/21	5%	0.1 - 0.1	0.10	0.10	0.10	0.15	11%	4	0	Not Evaluated	Non-Parametric	2/25/2025	<0.1	0	No
WLF-A1-1	0/22	0%	0.1 - 0.1	0.10	0.10	0.10	NA	0%	4	0	Not Evaluated	Non-Parametric	2/26/2025	<0.1	0	No
WLF-A1-2	4/22	18%	0.1 - 0.1	0.11	0.10	0.13	0.14	11%	4	0	Not Evaluated	Non-Parametric	2/26/2025	<0.1	0	No
WLF-A1-3	1/22	5%	0.1 - 0.1	0.10	0.10	0.10	0.15	10%	4	0	Not Evaluated	Non-Parametric	2/26/2025	<0.1	0.2	No
WLF-A1-4	0/22	0%	0.1 - 0.1	0.10	0.10	0.10	NA	0%	4	0	Not Evaluated	Non-Parametric	2/27/2025	<0.1	0.1	No
WLF-A1-5	1/22	5%	0.1 - 0.1	0.10	0.10	0.10	0.11	2%	4	0	Not Evaluated	Non-Parametric	2/26/2025	<0.1	0.1	No

TABLE 1
FEBRUARY 2025 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA (WGS CLASS 3 LANDFILL AREA 1)
 WINYAH GENERATING STATION
 CLASS 3 LANDFILL AREA 1

Location	Frequency of Detection	Percent of Detected Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	CCR MCL/RSL	Number of MCL/RSL Exceedances	Mann-Kendall Trend [a]	Intra-well Analysis				
												Assumed Data Distribution	Sample Date	February 2025 Concentration	Intrawell Prediction Limits [b]	Statistically Significant Increases (SSIs)
CCR Appendix III: pH, Field (SU) [c]																
WBW-A1-1	22/22	100%	NA	4.53	4.57	4.70	4.72	3%	NA	NA	No Trend	Parametric	2/26/2025	4.69	NA	NA
WAP-7	23/23	100%	NA	6.06	6.10	6.57	6.69	7%	NA	NA	Stable	Parametric	2/25/2025	6.57	7.47 / 4.65	No
WLF-A1-1	22/22	100%	NA	6.25	6.29	6.47	6.47	3%	NA	NA	Stable	Parametric	2/26/2025	6.18	6.85 / 5.66	No
WLF-A1-2	22/22	100%	NA	5.63	5.81	6.60	6.67	14%	NA	NA	No Trend	Parametric	2/26/2025	6.12	8.14 / 3.11	No
WLF-A1-3	23/23	100%	NA	4.25	4.23	4.46	4.58	4%	NA	NA	Stable	Parametric	2/26/2025	4.26	4.76 / 3.73	No
WLF-A1-4	22/22	100%	NA	6.31	6.33	6.62	6.74	4%	NA	NA	No Trend	Parametric	2/27/2025	6.38	7.07 / 5.56	No
WLF-A1-5	22/22	100%	NA	6.89	6.88	7.03	7.07	2%	NA	NA	No Trend	Non-Parametric	2/26/2025	6.95	7.07 / 6.46	No
CCR Appendix III: Sulfate (mg/L)																
WBW-A1-1	22/22	100%	NA	170	142	344	379	47%	NA	NA	Probably Increasing	Non-Parametric	2/26/2025	379	NA	NA
WAP-7	23/23	100%	NA	786	759	1400	1440	58%	NA	NA	No Trend	Parametric	2/25/2025	1010.0	2235	No
WLF-A1-1	22/22	100%	NA	785	794	1060	1070	31%	NA	NA	Stable	Parametric	2/26/2025	159.0	1553	No
WLF-A1-2	21/21	100%	NA	209	144	381	1040	107%	NA	NA	No Trend	Non-Parametric	2/26/2025	310.0	1040	No
WLF-A1-3	22/22	100%	NA	74	69	155	160	42%	NA	NA	Stable	Non-Parametric	2/26/2025	60.6	160.0	No
WLF-A1-4	22/22	100%	NA	122	98	244	366	62%	NA	NA	Stable	Non-Parametric	2/27/2025	53.1	366.0	No
WLF-A1-5	22/22	100%	NA	400	382	528	575	22%	NA	NA	Decreasing	Parametric	2/26/2025	358	676.9	No
CCR Appendix III: Total Dissolved Solids (mg/L)																
WBW-A1-1	22/22	100%	NA	270.0	257.0	388.0	536.2	38%	NA	NA	No Trend	Parametric	2/26/2025	257.5	NA	NA
WAP-7	23/23	100%	NA	1340	1290	2360	2531	56%	NA	NA	No Trend	Parametric	2/25/2025	1968.0	3750	No
WLF-A1-1	22/22	100%	NA	1700	1600	2390	2480	29%	NA	NA	Stable	Parametric	2/26/2025	895.0	3270	No
WLF-A1-2	22/22	100%	NA	415.0	395.0	842.0	890	65%	NA	NA	No Trend	Parametric	2/26/2025	842.5	1280	No
WLF-A1-3	22/22	100%	NA	110.0	101.0	134.0	241.2	31%	NA	NA	Stable	Non-Parametric	2/26/2025	77.5	241	No
WLF-A1-4	22/22	100%	NA	387.0	350.0	613.0	755.0	39%	NA	NA	Stable	Parametric	2/27/2025	200	874.0	No
WLF-A1-5	22/22	100%	NA	1120	1130	1340	1456	16%	NA	NA	Stable	Parametric	2/26/2025	1098	1710	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] Intrawell Prediction Limits are calculated from data collected from individual downgradient wells. No statistical outlier data points were removed from background datasets.
 [c] Upper Prediction Limit (UPL) / Lower Prediction Limit (LPL): SSIs are identified as sample results below the LPL or above the UPL.
 MCL/RSL: Maximum contaminant level/Regional screening level
 mg/L: milligrams per liter, SU = standard pH units
 NA: not applicable
 <: Constituent not detected above the method detection limit and the sample-specific reporting limit is show.

ATTACHMENT A
Statistical Output, February 2025

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n ₁ non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
WAP-7	Boron	mg/L	20	0	0	4	0.11	1.49	0.9	1.4	92.1	NA	2018-06-13 to 2025-02-25
WBW-A1-1	Boron	mg/L	21	0	0	0.078	0.0148	0.0433	0.042	0.015	33.8	NA	2018-06-12 to 2025-02-26
WLF-A1-1	Boron	mg/L	22	0	0	4.1	0.0763	2.29	2.45	1.5	64.7	NA	2018-06-13 to 2025-02-26
WLF-A1-2	Boron	mg/L	22	0	0	2.28	0.087	0.651	0.46	0.64	97.8	NA	2018-06-12 to 2025-02-26
WLF-A1-3	Boron	mg/L	22	0	0	0.48	0.059	0.14	0.0985	0.098	69.9	NA	2018-06-12 to 2025-02-26
WLF-A1-4	Boron	mg/L	22	0	0	1.2	0.14	0.326	0.265	0.23	70.1	NA	2018-06-12 to 2025-02-27
WLF-A1-5	Boron	mg/L	22	0	0	3	1.3	2.08	2.01	0.51	24.4	NA	2018-06-13 to 2025-02-26
WAP-7	Calcium	mg/L	23	0	0	690	53.9	361	346	220	61.9	NA	2018-01-31 to 2025-02-25
WBW-A1-1	Calcium	mg/L	22	0	0	121	0.032	55.6	48.1	27	48.3	NA	2018-06-12 to 2025-02-26
WLF-A1-1	Calcium	mg/L	22	0	0	746	0.62	422	419.5	150	36.2	NA	2018-06-13 to 2025-02-26
WLF-A1-2	Calcium	mg/L	22	0	0	193	0.06	88.2	76.8	67	76.4	NA	2018-06-12 to 2025-02-26
WLF-A1-3	Calcium	mg/L	22	0	0	26.3	0.0065	15.6	18	6.9	44.6	NA	2018-06-12 to 2025-02-26
WLF-A1-4	Calcium	mg/L	22	0	0	212	0.13	98.1	87.45	50	50.7	NA	2018-06-12 to 2025-02-27
WLF-A1-5	Calcium	mg/L	22	0	0	321	0.21	245	261	68	27.9	NA	2018-06-13 to 2025-02-26
WAP-7	Chloride	mg/L	23	0	0	123	4.67	38.8	23.1	35	91	NA	2018-01-31 to 2025-02-25
WBW-A1-1	Chloride	mg/L	22	0	0	67.5	7.43	15.6	12.4	13	85.3	NA	2018-06-12 to 2025-02-26
WLF-A1-1	Chloride	mg/L	22	0	0	270	9.88	97	76.55	82	84.5	NA	2018-06-13 to 2025-02-26
WLF-A1-2	Chloride	mg/L	21	0	0	211	2.32	48.1	27.1	54	112	NA	2018-06-12 to 2025-02-26
WLF-A1-3	Chloride	mg/L	22	0	0	59.3	2.81	6.82	4.305	12	172	NA	2018-06-12 to 2025-02-26
WLF-A1-4	Chloride	mg/L	22	0	0	41.3	3.3	9.17	6.895	7.9	85.6	NA	2018-06-12 to 2025-02-27
WLF-A1-5	Chloride	mg/L	22	0	0	183	66.7	134	141	36	27.2	NA	2018-06-13 to 2025-02-26
WAP-7	Fluoride	mg/L	21	20	95	0.15	0.1	0.102	0.1	0.011	10.7	0.1 - 0.1	2018-06-13 to 2025-02-25
WBW-A1-1	Fluoride	mg/L	21	20	95	0.103	0.1	0.1	0.1	0.00065	0.654	0.1 - 0.1	2018-06-12 to 2025-02-26
WLF-A1-1	Fluoride	mg/L	22	22	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2018-06-13 to 2025-02-26
WLF-A1-2	Fluoride	mg/L	22	18	82	0.14	0.1	0.105	0.1	0.011	10.5	0.1 - 0.1	2018-06-12 to 2025-02-26
WLF-A1-3	Fluoride	mg/L	22	21	95	0.15	0.1	0.102	0.1	0.011	10.4	0.1 - 0.1	2018-06-12 to 2025-02-26
WLF-A1-4	Fluoride	mg/L	22	22	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2018-06-12 to 2025-02-27
WLF-A1-5	Fluoride	mg/L	22	21	95	0.11	0.1	0.1	0.1	0.0021	2.12	0.1 - 0.1	2018-06-13 to 2025-02-26
WAP-7	Sulfate	mg/L	23	0	0	1440	169	786	759	460	57.9	NA	2018-01-31 to 2025-02-25
WBW-A1-1	Sulfate	mg/L	22	0	0	379	81.8	170	142	80	47.1	NA	2018-06-12 to 2025-02-26
WLF-A1-1	Sulfate	mg/L	22	0	0	1070	159	785	794	240	30.6	NA	2018-06-13 to 2025-02-26
WLF-A1-2	Sulfate	mg/L	21	0	0	1040	41.5	209	144	220	107	NA	2018-06-12 to 2025-02-26
WLF-A1-3	Sulfate	mg/L	22	0	0	160	40.2	73.9	68.45	31	42.4	NA	2018-06-12 to 2025-02-26
WLF-A1-4	Sulfate	mg/L	22	0	0	366	53.1	122	97.75	76	62	NA	2018-06-12 to 2025-02-27
WLF-A1-5	Sulfate	mg/L	22	0	0	575	246	400	382	86	21.6	NA	2018-06-13 to 2025-02-26
WAP-7	Total Dissolved Solids (TDS)	mg/L	23	0	0	2531	309	1.34e+03	1289	760	56.2	NA	2018-01-31 to 2025-02-25
WBW-A1-1	Total Dissolved Solids (TDS)	mg/L	22	0	0	536.2	25	270	256.9	100	38.1	NA	2018-06-12 to 2025-02-26
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	22	0	0	2480	895	1.7e+03	1600	490	28.8	NA	2018-06-13 to 2025-02-26
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	22	0	0	890	82.5	415	394.7	270	64.9	NA	2018-06-12 to 2025-02-26
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	22	0	0	241.2	77.5	110	101.2	34	30.7	NA	2018-06-12 to 2025-02-26
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	22	0	0	755	188	387	350	150	39.3	NA	2018-06-12 to 2025-02-27
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	22	0	0	1456	708	1.12e+03	1130	180	16.4	NA	2018-06-13 to 2025-02-26
WAP-7	pH, Field	pH units	23	0	0	6.69	5.36	6.06	6.1	0.44	7.31	NA	2018-01-31 to 2025-02-25
WBW-A1-1	pH, Field	pH units	22	0	0	4.72	4.17	4.53	4.57	0.15	3.24	NA	2018-06-12 to 2025-02-26
WLF-A1-1	pH, Field	pH units	22	0	0	6.47	5.79	6.25	6.295	0.19	2.97	NA	2018-06-13 to 2025-02-26
WLF-A1-2	pH, Field	pH units	22	0	0	6.67	4.45	5.63	5.81	0.79	14	NA	2018-06-12 to 2025-02-26
WLF-A1-3	pH, Field	pH units	23	0	0	4.58	3.91	4.25	4.23	0.16	3.82	NA	2018-06-12 to 2025-02-26
WLF-A1-4	pH, Field	pH units	22	0	0	6.74	5.89	6.31	6.33	0.23	3.72	NA	2018-06-12 to 2025-02-27
WLF-A1-5	pH, Field	pH units	22	0	0	7.07	6.46	6.89	6.885	0.13	1.82	NA	2018-06-13 to 2025-02-26

Note:
NA = not applicable, constituent detected in all reported samples.

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)	Data Normality (significance level = 0.01)
WAP-7	Boron	0.820	0.0018	20	0	Not normal	Not normal
WBW-A1-1	Boron	0.965	0.62	21	0	Normal	Normal
WLF-A1-1	Boron	0.857	0.0046	22	0	Not normal	Not normal
WLF-A1-2	Boron	0.828	0.0014	22	0	Not normal	Not normal
WLF-A1-3	Boron	0.738	6.2e-05	22	0	Not normal	Not normal
WLF-A1-4	Boron	0.688	1.4e-05	22	0	Not normal	Not normal
WLF-A1-5	Boron	0.931	0.13	22	0	Normal	Normal
WAP-7	Calcium	0.891	0.016	23	0	Not normal	Normal
WBW-A1-1	Calcium	0.963	0.54	22	0	Normal	Normal
WLF-A1-1	Calcium	0.956	0.42	22	0	Normal	Normal
WLF-A1-2	Calcium	0.878	0.011	22	0	Not normal	Normal
WLF-A1-3	Calcium	0.935	0.15	22	0	Normal	Normal
WLF-A1-4	Calcium	0.966	0.62	22	0	Normal	Normal
WLF-A1-5	Calcium	0.771	0.00018	22	0	Not normal	Not normal
WAP-7	Chloride	0.833	0.0014	23	0	Not normal	Not normal
WBW-A1-1	Chloride	0.512	1.7e-07	22	0	Not normal	Not normal
WLF-A1-1	Chloride	0.891	0.02	22	0	Not normal	Normal
WLF-A1-2	Chloride	0.785	0.00039	21	0	Not normal	Not normal
WLF-A1-3	Chloride	0.287	2.2e-09	22	0	Not normal	Not normal
WLF-A1-4	Chloride	0.572	6.8e-07	22	0	Not normal	Not normal
WLF-A1-5	Chloride	0.916	0.062	22	0	Normal	Normal
WAP-7	Fluoride	0.228	1.4e-09	21	20	Not normal	Not normal
WBW-A1-1	Fluoride	0.228	1.4e-09	21	20	Not normal	Not normal
WLF-A1-1	Fluoride	NA	NA	22	22	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
WLF-A1-2	Fluoride	0.502	1.4e-07	22	18	Not normal	Not normal
WLF-A1-3	Fluoride	0.221	7.4e-10	22	21	Not normal	Not normal
WLF-A1-4	Fluoride	NA	NA	22	22	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
WLF-A1-5	Fluoride	0.221	7.4e-10	22	21	Not normal	Not normal
WAP-7	Sulfate	0.896	0.021	23	0	Not normal	Normal
WBW-A1-1	Sulfate	0.847	0.003	22	0	Not normal	Not normal
WLF-A1-1	Sulfate	0.907	0.041	22	0	Not normal	Normal
WLF-A1-2	Sulfate	0.685	1.8e-05	21	0	Not normal	Not normal
WLF-A1-3	Sulfate	0.770	0.00018	22	0	Not normal	Not normal
WLF-A1-4	Sulfate	0.779	0.00024	22	0	Not normal	Not normal
WLF-A1-5	Sulfate	0.977	0.87	22	0	Normal	Normal
WAP-7	Total Dissolved Solids (TDS)	0.905	0.032	23	0	Not normal	Normal
WBW-A1-1	Total Dissolved Solids (TDS)	0.948	0.29	22	0	Normal	Normal
WLF-A1-1	Total Dissolved Solids (TDS)	0.930	0.12	22	0	Normal	Normal
WLF-A1-2	Total Dissolved Solids (TDS)	0.908	0.044	22	0	Not normal	Normal
WLF-A1-3	Total Dissolved Solids (TDS)	0.681	1.1e-05	22	0	Not normal	Not normal
WLF-A1-4	Total Dissolved Solids (TDS)	0.943	0.23	22	0	Normal	Normal
WLF-A1-5	Total Dissolved Solids (TDS)	0.943	0.22	22	0	Normal	Normal
WAP-7	pH, Field	0.916	0.054	23	0	Normal	Normal
WBW-A1-1	pH, Field	0.937	0.17	22	0	Normal	Normal
WLF-A1-1	pH, Field	0.917	0.066	22	0	Normal	Normal
WLF-A1-2	pH, Field	0.898	0.027	22	0	Not normal	Normal
WLF-A1-3	pH, Field	0.982	0.93	23	0	Normal	Normal
WLF-A1-4	pH, Field	0.974	0.79	22	0	Normal	Normal
WLF-A1-5	pH, Field	0.858	0.0048	22	0	Not normal	Not normal

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 the reporting limit)									
Location	Constituent	Outlier Test	n	n, non-detects	statistic	Alternative Hypothesis	P-value	Statistical Outlier (significance level = 0.05)	Outlier Removed
WAP-7	Boron	Dixon	20	0	0.0825	highest value 4 is an outlier	0.19	No	NA
WBW-A1-1	Boron	Dixon	21	0	0.3571	highest value 0.078 is an outlier	0.3	No	NA
WLF-A1-1	Boron	Dixon	22	0	0.0965	lowest value 0.0763 is an outlier	0.29	No	NA
WLF-A1-2	Boron	Dixon	22	0	0.2949	highest value 2.28 is an outlier	0.53	No	NA
WLF-A1-3	Boron	Dixon	22	0	0.5366	highest value 0.48 is an outlier	0.011	Yes	No
WLF-A1-4	Boron	Dixon	22	0	0.6190	highest value 1.2 is an outlier	0	Yes	No
WLF-A1-5	Boron	Dixon	22	0	0.1333	highest value 3 is an outlier	0.5	No	NA
WAP-7	Calcium	Dixon	23	0	0.1416	highest value 690 is an outlier	0.57	No	NA
WBW-A1-1	Calcium	Dixon	22	0	0.3258	highest value 121 is an outlier	0.39	No	NA
WLF-A1-1	Calcium	Dixon	22	0	0.5196	lowest value 0.62 is an outlier	0.018	Yes	No
WLF-A1-2	Calcium	Dixon	22	0	0.0339	highest value 193 is an outlier	0.037	Yes	No
WLF-A1-3	Calcium	Dixon	22	0	0.3240	lowest value 0.0065 is an outlier	0.4	No	NA
WLF-A1-4	Calcium	Dixon	22	0	0.3501	highest value 212 is an outlier	0.3	No	NA
WLF-A1-5	Calcium	Dixon	22	0	0.5977	lowest value 0.21 is an outlier	0	Yes	No
WAP-7	Chloride	Dixon	23	0	0.2233	highest value 123 is an outlier	0.9	No	NA
WBW-A1-1	Chloride	Dixon	22	0	0.8693	highest value 67.5 is an outlier	0	Yes	No
WLF-A1-1	Chloride	Dixon	22	0	0.2523	highest value 270 is an outlier	0.76	No	NA
WLF-A1-2	Chloride	Dixon	21	0	0.4380	highest value 211 is an outlier	0.1	No	NA
WLF-A1-3	Chloride	Dixon	22	0	0.9583	highest value 59.3 is an outlier	0	Yes	No
WLF-A1-4	Chloride	Dixon	22	0	0.7369	highest value 41.3 is an outlier	0	Yes	No
WLF-A1-5	Chloride	Dixon	22	0	0.1305	lowest value 66.7 is an outlier	0.48	No	NA
WAP-7	Fluoride	Dixon	21	20	1.0000	highest value 0.15 is an outlier	0	Yes	No
WBW-A1-1	Fluoride	Dixon	21	20	1.0000	highest value 0.103 is an outlier	0	Yes	No
WLF-A1-1	Fluoride	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
WLF-A1-2	Fluoride	Dixon	22	18	0.5000	highest value 0.14 is an outlier	0.027	Yes	No
WLF-A1-3	Fluoride	Dixon	22	21	1.0000	highest value 0.15 is an outlier	0	Yes	No
WLF-A1-4	Fluoride	Dixon	22	22	All results are non-detect	Not Evaluated	NA	NA	NA
WLF-A1-5	Fluoride	Dixon	22	21	1.0000	highest value 0.11 is an outlier	0	Yes	No
WAP-7	Sulfate	Dixon	23	0	0.0504	highest value 1440 is an outlier	0.1	No	NA
WBW-A1-1	Sulfate	Dixon	22	0	0.4585	highest value 379 is an outlier	0.062	No	NA
WLF-A1-1	Sulfate	Dixon	22	0	0.4417	lowest value 159 is an outlier	0.083	No	NA
WLF-A1-2	Sulfate	Dixon	21	0	0.7223	highest value 1040 is an outlier	0	Yes	No
WLF-A1-3	Sulfate	Dixon	22	0	0.6077	highest value 160 is an outlier	0	Yes	No
WLF-A1-4	Sulfate	Dixon	22	0	0.4987	highest value 366 is an outlier	0.028	Yes	No
WLF-A1-5	Sulfate	Dixon	22	0	0.2283	highest value 575 is an outlier	0.9	No	NA
WAP-7	Total Dissolved Solids (TDS)	Dixon	23	0	0.1121	highest value 2531 is an outlier	0.39	No	NA
WBW-A1-1	Total Dissolved Solids (TDS)	Dixon	22	0	0.4547	highest value 536.2 is an outlier	0.066	No	NA
WLF-A1-1	Total Dissolved Solids (TDS)	Dixon	22	0	0.1697	lowest value 895 is an outlier	0.72	No	NA
WLF-A1-2	Total Dissolved Solids (TDS)	Dixon	22	0	0.0655	highest value 890 is an outlier	0.15	No	NA
WLF-A1-3	Total Dissolved Solids (TDS)	Dixon	22	0	0.7099	highest value 241.2 is an outlier	0	Yes	No
WLF-A1-4	Total Dissolved Solids (TDS)	Dixon	22	0	0.2787	highest value 755 is an outlier	0.61	No	NA
WLF-A1-5	Total Dissolved Solids (TDS)	Dixon	22	0	0.1970	lowest value 707.5 is an outlier	0.9	No	NA
WAP-7	pH, Field	Dixon	23	0	0.0165	lowest value 5.36 is an outlier	0	Yes	No
WBW-A1-1	pH, Field	Dixon	22	0	0.3462	lowest value 4.17 is an outlier	0.31	No	NA
WLF-A1-1	pH, Field	Dixon	22	0	0.3636	lowest value 5.79 is an outlier	0.25	No	NA
WLF-A1-2	pH, Field	Dixon	22	0	0.0190	lowest value 4.45 is an outlier	0	Yes	No
WLF-A1-3	pH, Field	Dixon	23	0	0.3519	lowest value 3.91 is an outlier	0.27	No	NA
WLF-A1-4	pH, Field	Dixon	22	0	0.1667	highest value 6.74 is an outlier	0.7	No	NA
WLF-A1-5	pH, Field	Dixon	22	0	0.6250	lowest value 6.46 is an outlier	0	Yes	No

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

Location	Constituent	Secular Trend Evaluation for All Data									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)							
		Mann Kendall Trends		Mann-Kendall Test							Mann-Kendall Test							
				(R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							(R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							
Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)			
WAP-7	Boron	Increasing	Stable	20	20	0.921	0.508	0.00203	99.8	96	8	8	2019-01-22 to 2025-02-25	0.429	-0.182	0.618	38.2	-5
WBW-A1-1	Boron	Probably Increasing	No Trend	21	21	0.338	0.306	0.0569	94.3	64	8	8	2020-02-06 to 2025-02-26	0.323	0.5	0.108	89.2	14
WLF-A1-1	Boron	Decreasing	Probably Decreasing	22	22	0.647	-0.802	0.000000239	100	-184	8	8	2020-02-05 to 2025-02-26	0.633	-0.571	0.0635	93.7	-16
WLF-A1-2	Boron	Stable	Probably Increasing	22	22	0.978	-0.0174	0.933	6.7	-4	8	8	2020-02-05 to 2025-02-26	0.818	0.571	0.0635	93.7	16
WLF-A1-3	Boron	No Trend	Decreasing	22	22	0.699	0.208	0.185	81.5	48	8	8	2020-02-05 to 2025-02-26	0.332	-0.786	0.00937	99.1	-22
WLF-A1-4	Boron	Decreasing	Decreasing	22	22	0.701	-0.607	0.0000968	100	-139	8	8	2020-02-05 to 2025-02-27	0.247	-0.643	0.0354	96.5	-18
WLF-A1-5	Boron	Stable	No Trend	22	22	0.244	-0.246	0.12	88	-56	8	8	2020-02-05 to 2025-02-26	0.099	0.286	0.386	61.4	8
WAP-7	Calcium	Probably Increasing	Stable	23	23	0.619	0.265	0.0813	91.9	67	8	8	2020-02-05 to 2025-02-25	0.282	-0.143	0.711	28.9	-4
WBW-A1-1	Calcium	Increasing	No Trend	22	22	0.483	0.325	0.0369	96.3	75	8	8	2020-02-06 to 2025-02-26	0.299	0.143	0.711	28.9	4
WLF-A1-1	Calcium	Decreasing	Stable	22	22	0.362	-0.558	0.000307	100	-129	8	8	2020-02-05 to 2025-02-26	0.181	-0.286	0.386	61.4	-8
WLF-A1-2	Calcium	No Trend	No Trend	22	22	0.764	0.026	0.888	11.2	6	8	8	2020-02-05 to 2025-02-26	0.731	0.429	0.174	82.6	12
WLF-A1-3	Calcium	Increasing	Stable	22	22	0.446	0.373	0.0175	98.2	85	8	8	2020-02-05 to 2025-02-26	0.0805	-0.34	0.308	69.2	-9
WLF-A1-4	Calcium	Decreasing	Stable	22	22	0.507	-0.429	0.00572	99.4	-99	8	8	2020-02-05 to 2025-02-27	0.292	-0.286	0.386	61.4	-8
WLF-A1-5	Calcium	Increasing	Stable	22	22	0.279	0.361	0.0207	97.9	83	8	8	2020-02-05 to 2025-02-26	0.0748	-0.182	0.618	38.2	-5
WAP-7	Chloride	Probably Increasing	Decreasing	23	23	0.91	0.265	0.0813	91.9	67	8	8	2020-02-05 to 2025-02-25	0.489	-0.786	0.00937	99.1	-22
WBW-A1-1	Chloride	Probably Increasing	Stable	22	22	0.853	0.286	0.0667	93.3	66	8	8	2020-02-06 to 2025-02-26	0.0986	-0.214	0.536	46.4	-6
WLF-A1-1	Chloride	Decreasing	Decreasing	22	22	0.845	-0.931	0.000000016	100	-215	8	8	2020-02-05 to 2025-02-26	0.977	-0.929	0.00198	99.8	-26
WLF-A1-2	Chloride	No Trend	No Trend	21	21	1.12	-0.257	0.11	89	-54	8	8	2020-02-05 to 2025-02-26	0.942	0.429	0.174	82.6	12
WLF-A1-3	Chloride	No Trend	Stable	22	22	1.72	0.039	0.822	17.8	9	8	8	2020-02-05 to 2025-02-26	0.152	-0.429	0.174	82.6	-12
WLF-A1-4	Chloride	Stable	Stable	22	22	0.856	-0.126	0.43	57	-29	8	8	2020-02-05 to 2025-02-27	0.424	-0.286	0.386	61.4	-8
WLF-A1-5	Chloride	No Trend	Stable	22	22	0.272	0.0781	0.632	36.8	18	8	8	2020-02-05 to 2025-02-26	0.176	-0.214	0.536	46.4	-6
WAP-7	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	21	1	0.398	NA	NA	NA	NA	8	1	2020-02-05 to 2025-02-25	0.566	NA	NA	NA	NA
WBW-A1-1	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	21	1	0.22	NA	NA	NA	NA	8	1	2020-02-06 to 2025-02-26	0.331	NA	NA	NA	NA
WLF-A1-1	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-05 to 2025-02-26	0	NA	NA	NA	NA
WLF-A1-2	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	22	4	0.472	NA	NA	NA	NA	8	0	2020-02-05 to 2025-02-26	0	NA	NA	NA	NA
WLF-A1-3	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.391	NA	NA	NA	NA	8	1	2020-02-05 to 2025-02-26	0.566	NA	NA	NA	NA
WLF-A1-4	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-05 to 2025-02-27	0	NA	NA	NA	NA
WLF-A1-5	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	22	1	0.243	NA	NA	NA	NA	8	0	2020-02-05 to 2025-02-26	0	NA	NA	NA	NA
WAP-7	Sulfate	No Trend	No Trend	23	23	0.579	0.083	0.597	40.3	21	8	8	2020-02-05 to 2025-02-25	0.319	0.0714	0.902	9.8	2
WBW-A1-1	Sulfate	Increasing	Probably Increasing	22	22	0.471	0.469	0.00254	99.7	108	8	8	2020-02-06 to 2025-02-26	0.331	0.571	0.0635	93.7	16
WLF-A1-1	Sulfate	Decreasing	Stable	22	22	0.306	-0.59	0.00014	100	-136	8	8	2020-02-05 to 2025-02-26	0.346	0	1	0	0
WLF-A1-2	Sulfate	No Trend	No Trend	21	21	1.07	-0.105	0.526	47.4	-22	8	8	2020-02-05 to 2025-02-26	0.672	0.357	0.266	73.4	10
WLF-A1-3	Sulfate	No Trend	Stable	22	22	0.424	0.0174	0.933	6.7	4	8	8	2020-02-05 to 2025-02-26	0.0825	-0.286	0.386	61.4	-8
WLF-A1-4	Sulfate	Decreasing	Stable	22	22	0.62	-0.538	0.000521	99.9	-124	8	8	2020-02-05 to 2025-02-27	0.157	-0.286	0.386	61.4	-8
WLF-A1-5	Sulfate	No Trend	Decreasing	22	22	0.216	0.229	0.143	85.7	53	8	8	2020-02-05 to 2025-02-26	0.16	-0.643	0.0354	96.5	-18
WAP-7	Total Dissolved Solids (TDS)	No Trend	No Trend	23	23	0.562	0.146	0.342	65.8	37	8	8	2020-02-05 to 2025-02-25	0.346	0.143	0.711	28.9	4
WBW-A1-1	Total Dissolved Solids (TDS)	No Trend	No Trend	22	22	0.381	0.156	0.323	67.7	36	8	8	2020-02-06 to 2025-02-26	0.453	0.143	0.711	28.9	4
WLF-A1-1	Total Dissolved Solids (TDS)	Decreasing	Stable	22	22	0.288	-0.766	0.000000695	100	-177	8	8	2020-02-05 to 2025-02-26	0.186	-0.286	0.386	61.4	-8
WLF-A1-2	Total Dissolved Solids (TDS)	Stable	No Trend	22	22	0.649	-0.0649	0.693	30.7	-15	8	8	2020-02-05 to 2025-02-26	0.726	0.429	0.174	82.6	12
WLF-A1-3	Total Dissolved Solids (TDS)	No Trend	Stable	22	22	0.307	0.113	0.48	52	26	8	8	2020-02-05 to 2025-02-26	0.167	-0.4	0.212	78.8	-11
WLF-A1-4	Total Dissolved Solids (TDS)	Decreasing	Stable	22	22	0.393	-0.532	0.000581	99.9	-123	8	8	2020-02-05 to 2025-02-27	0.252	-0.286	0.386	61.4	-8
WLF-A1-5	Total Dissolved Solids (TDS)	No Trend	Stable	22	22	0.164	0.255	0.102	89.8	59	8	8	2020-02-05 to 2025-02-26	0.107	-0.5	0.108	89.2	-14
WAP-7	pH, Field	No Trend	Stable	23	23	0.0731	0.0833	0.597	40.3	21	8	8	2020-02-05 to 2025-02-25	0.0593	0	1	0	0
WBW-A1-1	pH, Field	No Trend	No Trend	22	22	0.0324	0.179	0.259	74.1	41	8	8	2020-02-06 to 2025-02-26	0.0394	0.0364	1	0	1

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

Location	Constituent	Secular Trend Evaluation for All Data									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)							
		Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)					Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									
		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	
WLF-A1-1	pH, Field	Decreasing	Stable	22	22	0.0297	-0.549	0.000417	100	-126	8	8	2020-02-05 to 2025-02-26	0.025	-0.286	0.386	61.4	-8
WLF-A1-2	pH, Field	Decreasing	No Trend	22	22	0.14	-0.474	0.00231	99.8	-109	8	8	2020-02-05 to 2025-02-26	0.127	0.357	0.266	73.4	10
WLF-A1-3	pH, Field	No Trend	Stable	23	23	0.0382	0.239	0.119	88.1	60	8	8	2020-06-16 to 2025-02-26	0.0333	-0.0714	0.902	9.8	-2
WLF-A1-4	pH, Field	Probably Decreasing	No Trend	22	22	0.0372	-0.279	0.0753	92.5	-64	8	8	2020-02-05 to 2025-02-27	0.0292	0.0714	0.902	9.8	2
WLF-A1-5	pH, Field	Stable	No Trend	22	22	0.0182	-0.0308	0.865	13.5	-7	8	8	2020-02-05 to 2025-02-26	0.0265	0.143	0.711	28.9	4

Note:

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

Table A-5. Intrawell Prediction Limit Calculations

Location	Constituent	Units	Baseline Distribution [a]	Prediction Interval Calculation	Baseline Data Characterization [a]								Trend (Baseline Data)	Prediction Limits		95% Confidence Parametric Prediction Limit Calculation Details					Non-Parametric Prediction Limit Calculation Details		
					min baseline sample date	max baseline sample date	n	n, non-detects	max	min	mean	standard deviation		Prediction Limit Calculation Method	UPL	LPL	degrees of freedom	future samples (M)	confidence level (%) for M sample comparisons	t (percentile of student's t-test)	t quantile	achieved confidence level (%)	false positive rate (%)
WAP-7	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-25	20	NA	4	0.11	1.486	1.369	Increasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	4	NA	19	4	NA	NA	NA	83.3	16.7
WLF-A1-1	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	NA	4.1	0.0763	2.288	1.48	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	4.1	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-2	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	2.28	0.087	0.6508	0.6362	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	2.28	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-3	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	0.48	0.059	0.1401	0.098	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.48	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-27	22	NA	1.2	0.14	0.3262	0.2288	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	1.2	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Boron	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	3	1.3	2.079	0.5066	Stable	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	3.703	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	690	53.9	361.2	223.5	Probably Increasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1073	NA	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	746	0.62	422.3	152.7	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	911.8	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	193	0.06	88.16	67.39	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	304.2	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-3	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	26.3	0.0065	15.56	6.937	Increasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	37.79	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-4	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-27	22	NA	212	0.13	98.11	49.76	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	257.6	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-5	Calcium	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	NA	321	0.21	245	68.29	Increasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	321	NA	21	4	NA	NA	NA	84.6	15.4
WAP-7	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-01-31	2025-02-25	23	NA	123	4.67	38.77	35.27	Probably Increasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	123	NA	22	4	NA	NA	NA	85.2	14.8
WLF-A1-1	Chloride	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	270	9.88	97.03	81.98	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	359.8	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	21	NA	211	2.32	48.08	53.67	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	211	NA	20	4	NA	NA	NA	84	16
WLF-A1-3	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	59.3	2.81	6.822	11.76	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	59.3	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-27	22	NA	41.3	3.3	9.167	7.85	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	41.3	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Chloride	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	183	66.7	133.8	36.42	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	250.5	NA	21	4	99.75	0.9975	3.135	NA	NA

Note:
[a] 'Baseline' data refer to the entire statistical dataset, except the most recent data point. Baseline datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
Prediction limits calculated using simple replacement with the reporting limit for non-detect results.
UPL = Upper Prediction Limit. LPL = Lower Prediction Limit, calculated for pH, Field only.

Location	Constituent	Units	Baseline Data Characterization [a]											Prediction Limits			95% Confidence Parametric Prediction Limit Calculation Details					Non-Parametric Prediction Limit Calculation Details	
			Baseline Distribution [a]	Prediction Interval Calculation	min baseline sample date	max baseline sample	n	n, non-detects	max	min	mean	standard deviation	Trend (Baseline Data)	Prediction Limit Calculation Method	UPL	LPL	degrees of freedom	future samples (M)	confidence level (%) for M sample comparisons	t (percentile of student's t-test)	t quantile	achieved confidence level (%)	false positive rate (%)
WAP-7	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-25	21	20	0.15	0.1	0.1024	0.01091	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.15	NA	20	4	NA	NA	NA	84	16
WLF-A1-1	Fluoride	mg/L	Not normal (all non-detects)	Non-Parametric	2018-06-13	2025-02-26	22	22	0.1	0.1	0.1	0	All tied values (p is NaN).	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.1	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-2	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	18	0.14	0.1	0.1045	0.01101	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.14	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-3	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	21	0.15	0.1	0.1023	0.01066	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.15	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Fluoride	mg/L	Not normal (all non-detects)	Non-Parametric	2018-06-12	2025-02-27	22	22	0.1	0.1	0.1	0	All tied values (p is NaN).	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.1	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	21	0.11	0.1	0.1005	0.002132	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.11	NA	21	4	NA	NA	NA	84.6	15.4
WAP-7	Sulfate	mg/L	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	1440	169	785.5	455	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	2235	NA	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	Sulfate	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	1070	159	784.6	239.8	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1553	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Sulfate	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	21	NA	1040	41.5	209.1	223.7	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	1040	NA	20	4	NA	NA	NA	84	16
WLF-A1-3	Sulfate	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	160	40.2	73.9	31.3	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	160	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Sulfate	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-27	22	NA	366	53.1	122.4	75.92	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	366	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Sulfate	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	575	246	399.8	86.46	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	676.9	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	2531	308.8	1344	755.5	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	3751	NA	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	2480	895	1701	489.7	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	3270	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	890	82.5	415.1	269.3	Stable	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1278	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	241.2	77.5	109.7	33.7	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	241.2	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-27	22	NA	755	187.5	386.8	151.9	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	873.9	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	1456	707.5	1118	183.3	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1706	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	6.69	5.36	6.056	0.4424	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	7.466	4.647	22	4	99.75	0.9975	3.119	NA	NA

Note:
[a] 'Baseline' data refer to the entire statistical dataset, except the most recent data point. Baseline datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
Prediction limits calculated using simple replacement with the reporting limit for non-detect results.
UPL = Upper Prediction Limit. LPL = Lower Prediction Limit, calculated for pH, Field only.

Location	Constituent	Units	Baseline Data Characterization [a]										Prediction Limits			95% Confidence Parametric Prediction Limit Calculation Details					Non-Parametric Prediction Limit Calculation Details		
			Baseline Distribution [a]	Prediction Interval Calculation	min baseline sample date	max baseline sample	n	n, non-detects	max	min	mean	standard deviation	Trend (Baseline Data)	Prediction Limit Calculation Method	UPL	LPL	degrees of freedom	future samples (M)	confidence level (%) for M sample comparisons	t (percentile of student's t-test)	t quantile	achieved confidence level (%)	false positive rate (%)
WLF-A1-1	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	6.47	5.79	6.253	0.186	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	6.849	5.657	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	6.67	4.45	5.627	0.7851	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	8.144	3.11	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-3	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	23	NA	4.58	3.91	4.246	0.1621	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	4.763	3.73	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-4	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-12	2025-02-27	22	NA	6.74	5.89	6.314	0.2349	Probably Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	7.067	5.561	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-5	pH, Field	pH units	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	NA	7.07	6.46	6.885	0.1255	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	7.07	6.46	21	4	NA	NA	NA	84.6	15.4

Note:

[a] 'Baseline' data refer to the entire statistical dataset, except the most recent data point. Baseline datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

Prediction limits calculated using simple replacement with the reporting limit for non-detect results.

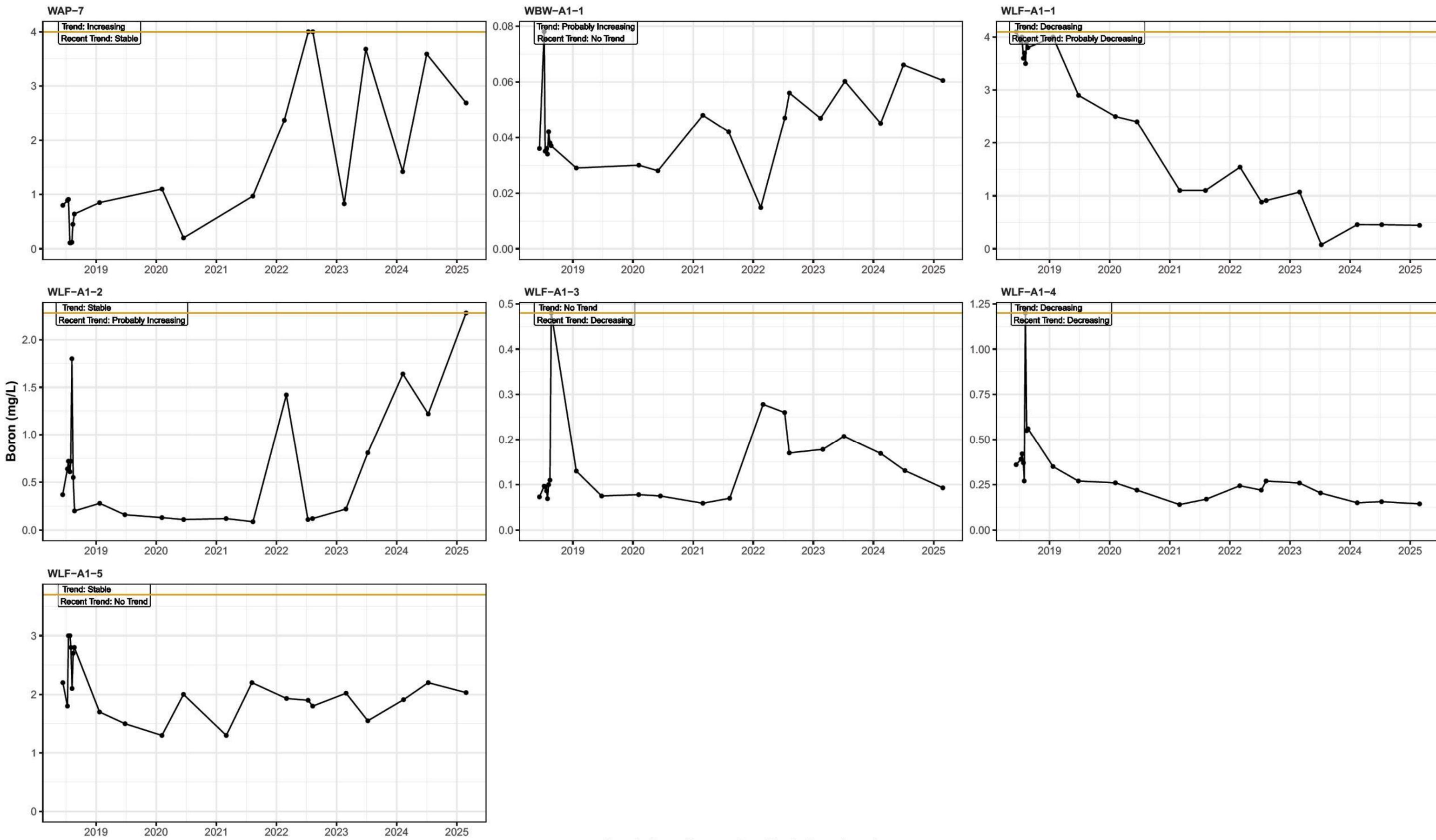
UPL = Upper Prediction Limit. LPL = Lower Prediction Limit, calculated for pH, Field only.

Table A-6. Intrawell Prediction Limit Comparison & Statistically Significant Increases

Location	Constituent	Units	Sample Date	Sample Result	Upper Prediction Limit (UPL)	Lower Prediction Limit (LPL)	Intrawell SSI
WAP-7	Boron	mg/L	2025-02-25	2.69	4	NA	No
WLF-A1-1	Boron	mg/L	2025-02-26	0.442	4.1	NA	No
WLF-A1-2	Boron	mg/L	2025-02-26	2.28	2.28	NA	No
WLF-A1-3	Boron	mg/L	2025-02-26	0.093	0.48	NA	No
WLF-A1-4	Boron	mg/L	2025-02-27	0.144	1.2	NA	No
WLF-A1-5	Boron	mg/L	2025-02-26	2.03	3.7	NA	No
WAP-7	Calcium	mg/L	2025-02-25	538	1073	NA	No
WLF-A1-1	Calcium	mg/L	2025-02-26	250	911.8	NA	No
WLF-A1-2	Calcium	mg/L	2025-02-26	193	304.2	NA	No
WLF-A1-3	Calcium	mg/L	2025-02-26	15.1	37.79	NA	No
WLF-A1-4	Calcium	mg/L	2025-02-27	59.6	257.6	NA	No
WLF-A1-5	Calcium	mg/L	2025-02-26	273	321	NA	No
WAP-7	Chloride	mg/L	2025-02-25	26.6	123	NA	No
WLF-A1-1	Chloride	mg/L	2025-02-26	9.88	360	NA	No
WLF-A1-2	Chloride	mg/L	2025-02-26	121	211	NA	No
WLF-A1-3	Chloride	mg/L	2025-02-26	3.22	59.3	NA	No
WLF-A1-4	Chloride	mg/L	2025-02-27	3.3	41.3	NA	No
WLF-A1-5	Chloride	mg/L	2025-02-26	134	251	NA	No
WAP-7	Fluoride	mg/L	2025-02-25	< 0.1	0.15	NA	No
WLF-A1-1	Fluoride	mg/L	2025-02-26	< 0.1	0.1	NA	No
WLF-A1-2	Fluoride	mg/L	2025-02-26	< 0.1	0.14	NA	No
WLF-A1-3	Fluoride	mg/L	2025-02-26	< 0.1	0.15	NA	No
WLF-A1-4	Fluoride	mg/L	2025-02-27	< 0.1	0.1	NA	No
WLF-A1-5	Fluoride	mg/L	2025-02-26	< 0.1	0.11	NA	No
WAP-7	Sulfate	mg/L	2025-02-25	1010	2235	NA	No
WLF-A1-1	Sulfate	mg/L	2025-02-26	159	1553	NA	No
WLF-A1-2	Sulfate	mg/L	2025-02-26	310	1040	NA	No
WLF-A1-3	Sulfate	mg/L	2025-02-26	60.6	160	NA	No
WLF-A1-4	Sulfate	mg/L	2025-02-27	53.1	366	NA	No
WLF-A1-5	Sulfate	mg/L	2025-02-26	358	676.9	NA	No
WAP-7	Total Dissolved Solids (TDS)	mg/L	2025-02-25	1968	3751	NA	No
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	2025-02-26	895	3270	NA	No
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	2025-02-26	842.5	1278	NA	No
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	2025-02-26	77.5	241.2	NA	No
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	2025-02-27	200	873.9	NA	No
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	2025-02-26	1098	1706	NA	No
WAP-7	pH, Field	pH units	2025-02-25	6.57	7.47	4.65	No
WLF-A1-1	pH, Field	pH units	2025-02-26	6.18	6.85	5.66	No
WLF-A1-2	pH, Field	pH units	2025-02-26	6.12	8.14	3.11	No
WLF-A1-3	pH, Field	pH units	2025-02-26	4.26	4.76	3.73	No
WLF-A1-4	pH, Field	pH units	2025-02-27	6.38	7.07	5.56	No
WLF-A1-5	pH, Field	pH units	2025-02-26	6.95	7.07	6.46	No

Statistically Significant Increases (SSIs) include any sample results that exceed prediction limits. In other words, an SSI is any sample concentration greater than the UPL, or any sample concentration less than the LCL for pH, Field. < indicates that the constituent was not detected above the method detection limit, the reporting detection limit is shown following the symbol.

Trend Plots for Boron

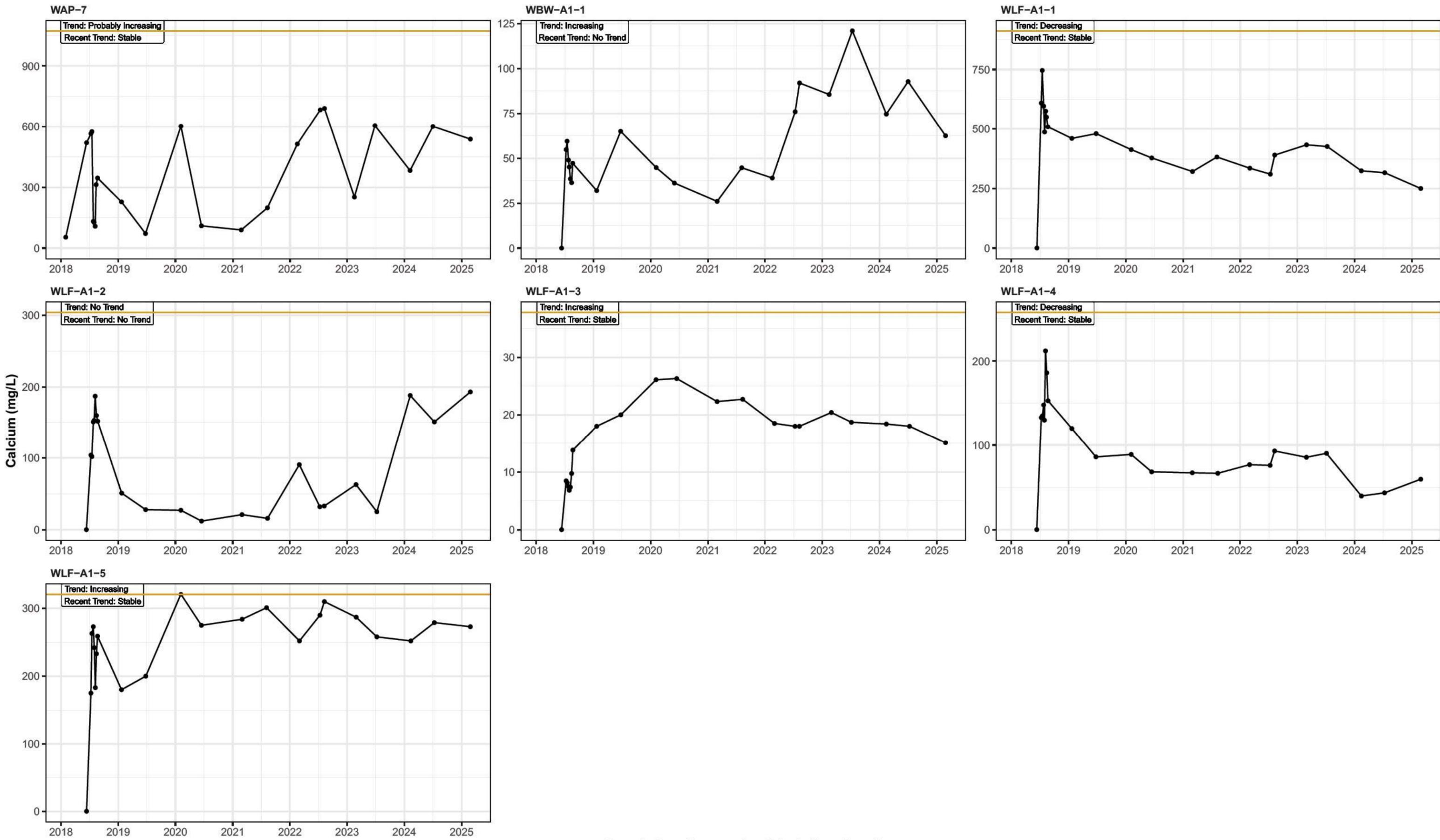


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for Calcium

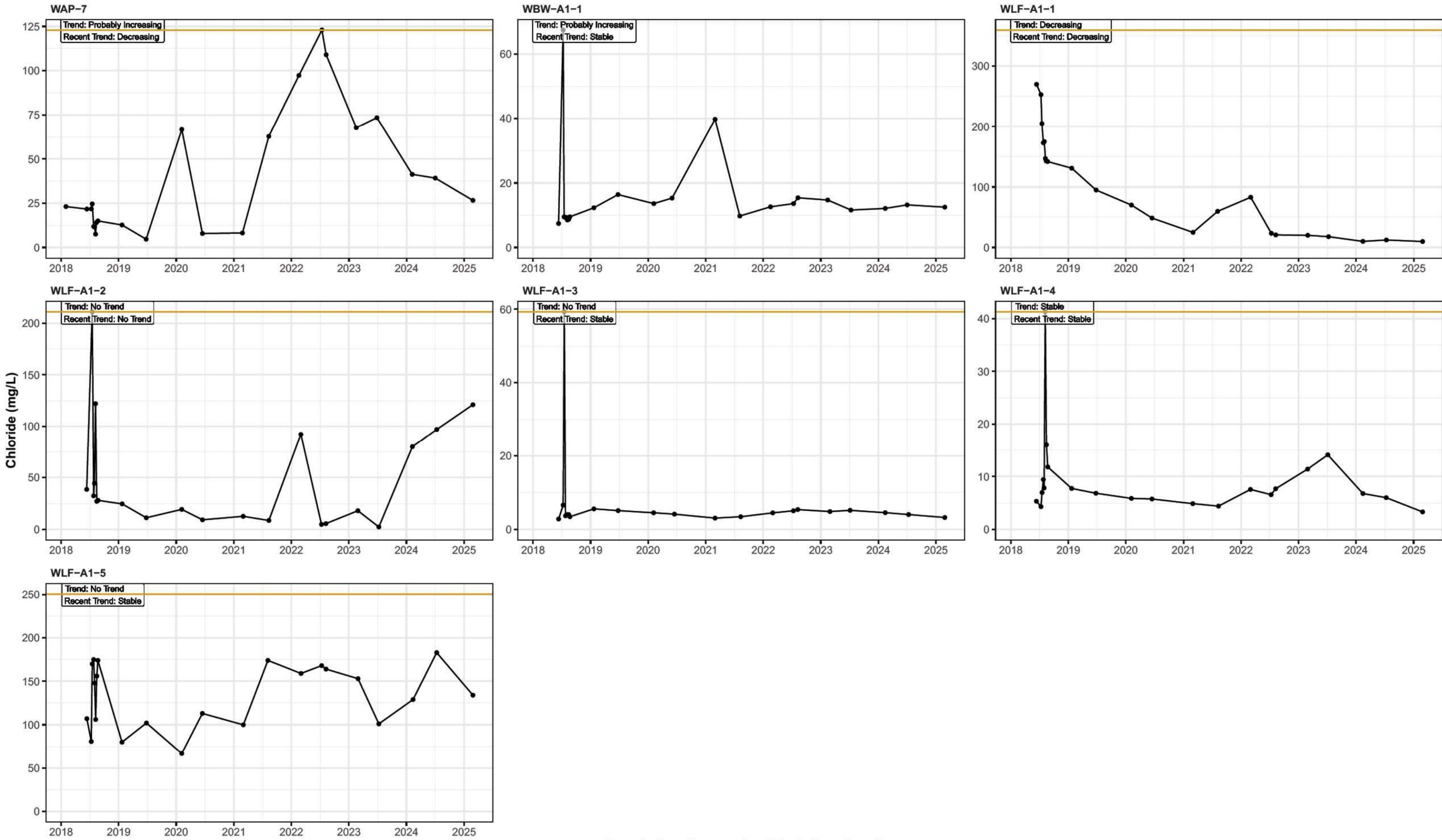


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for Chloride

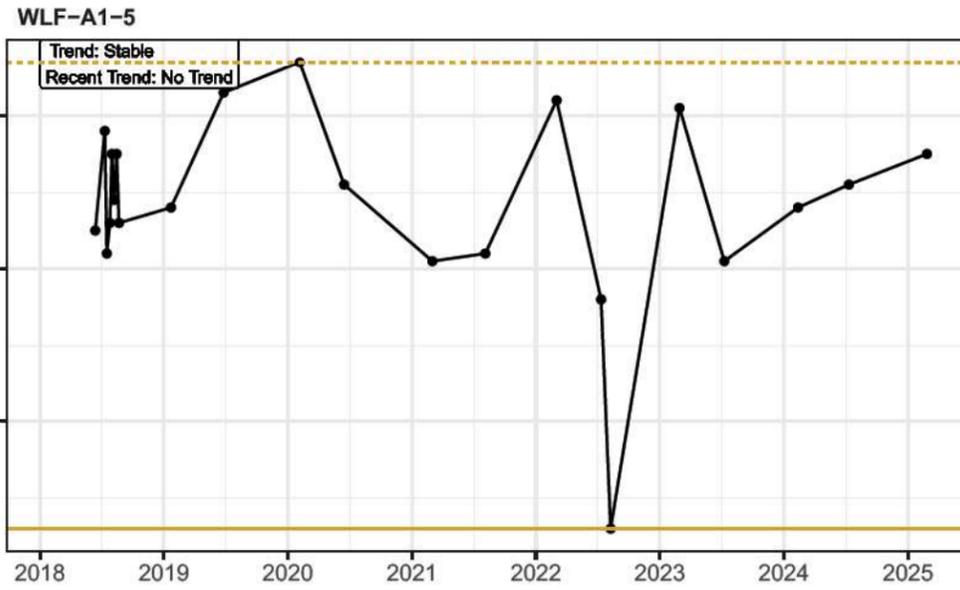
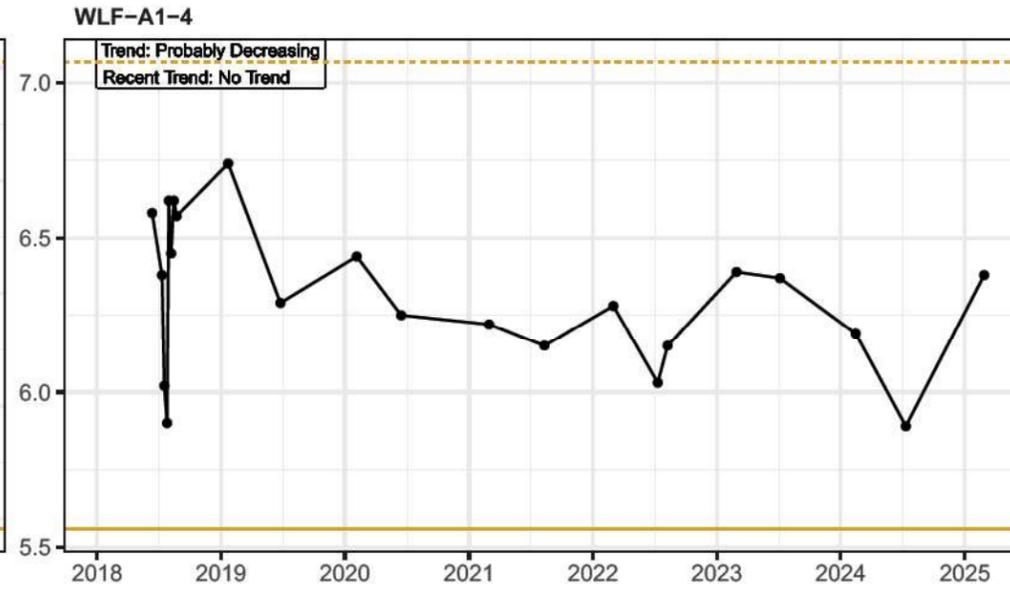
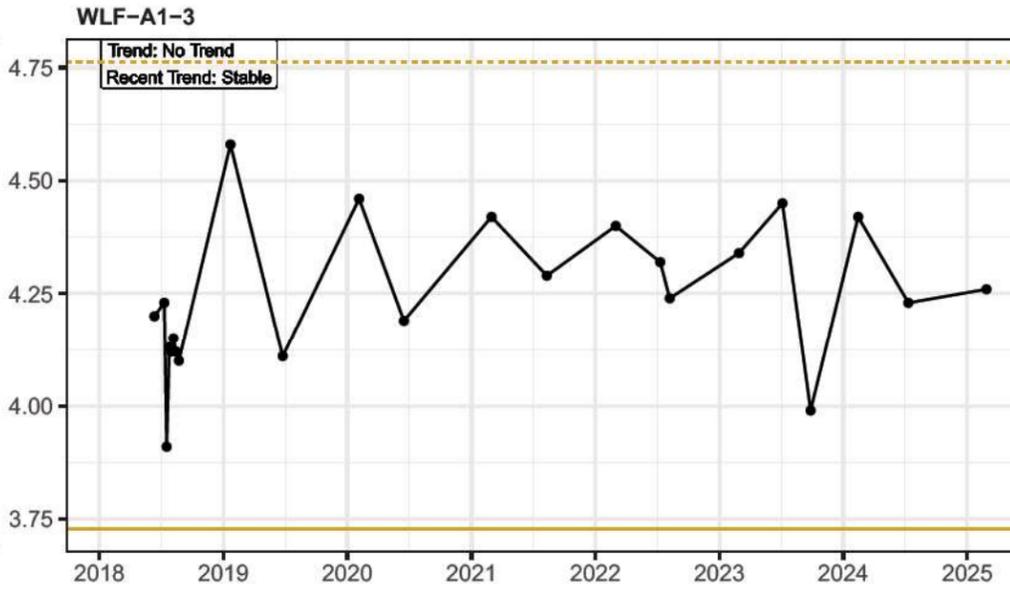
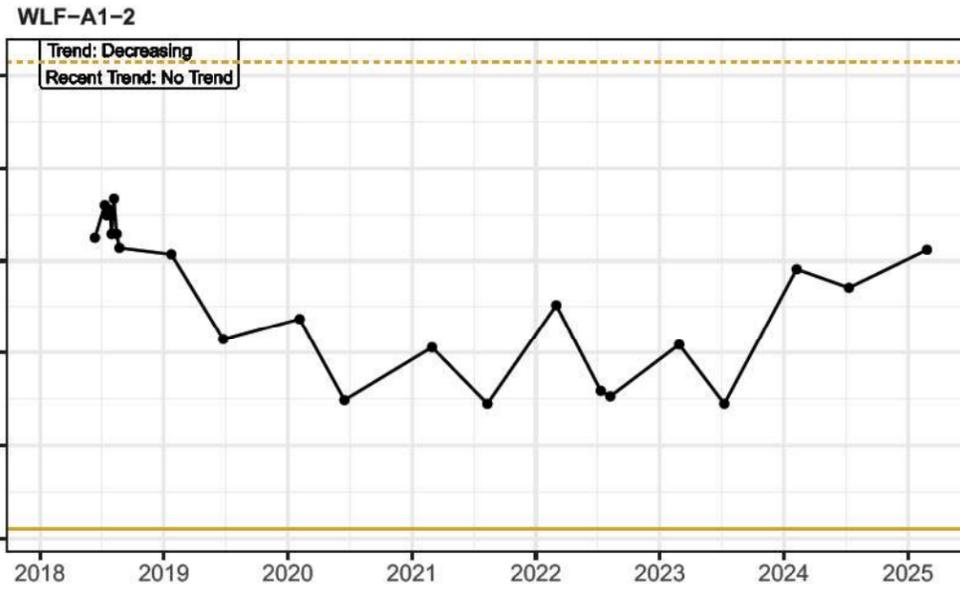
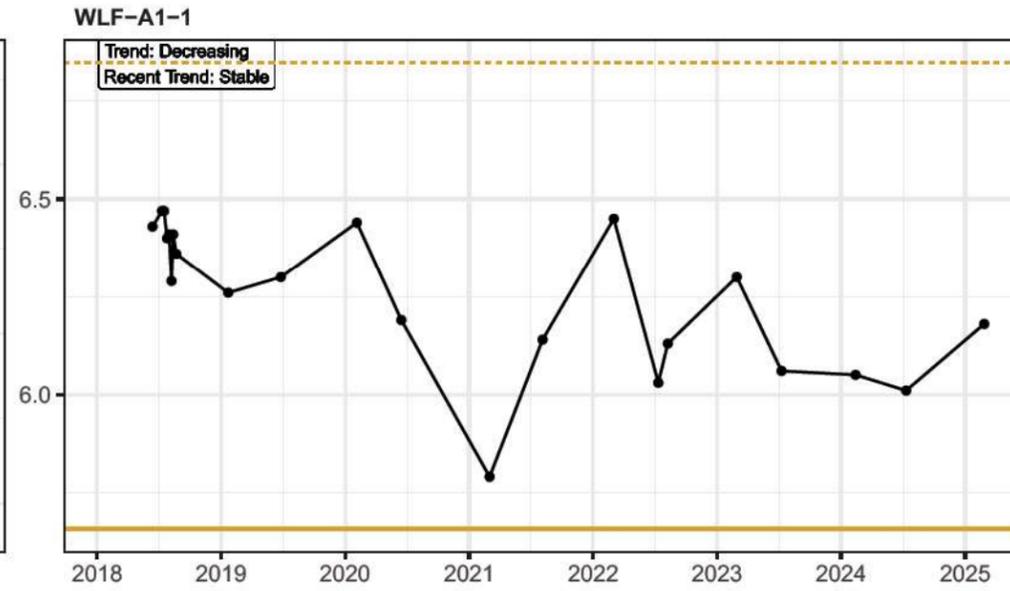
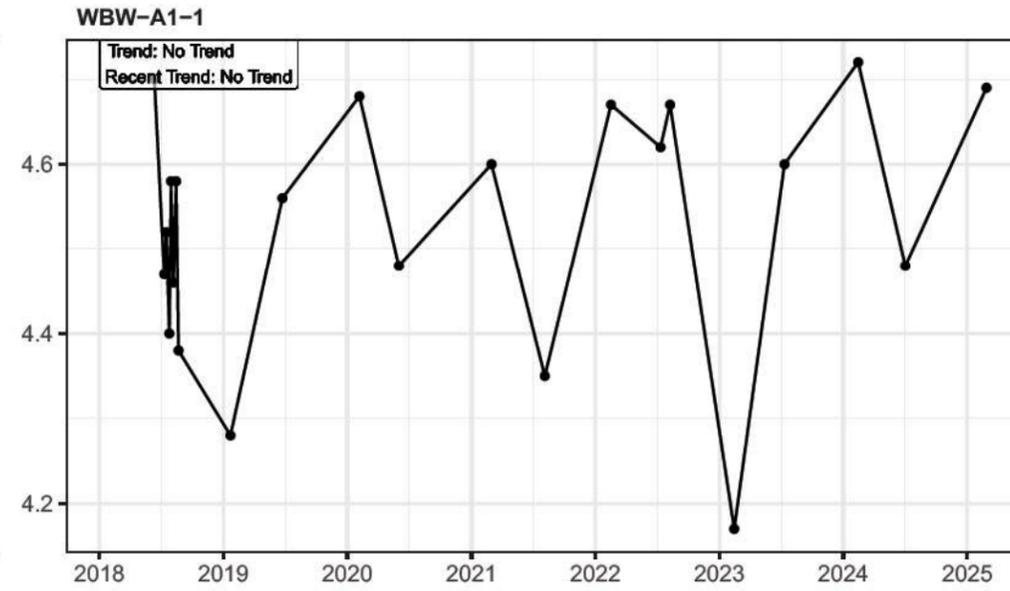
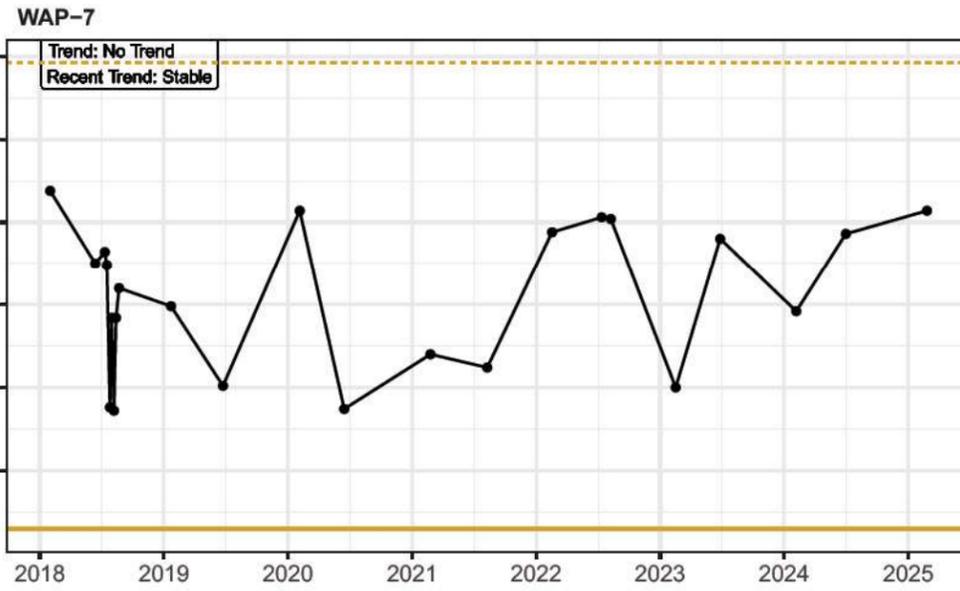


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for pH, Field

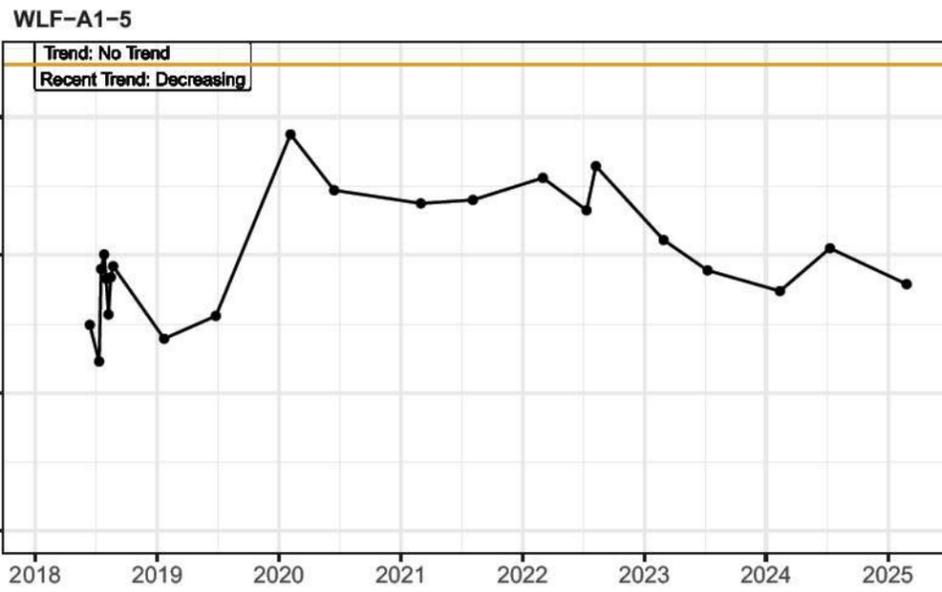
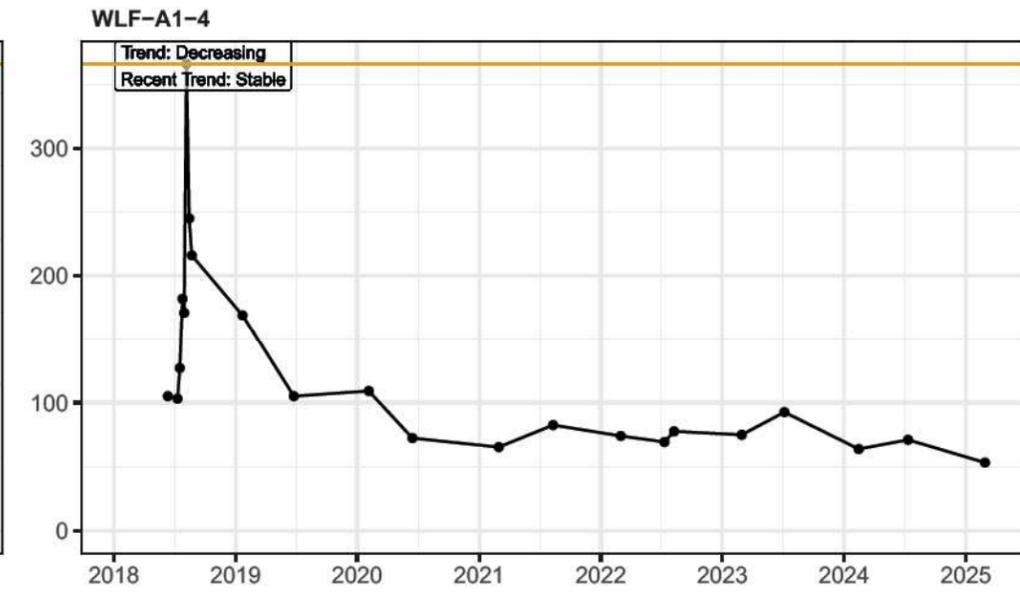
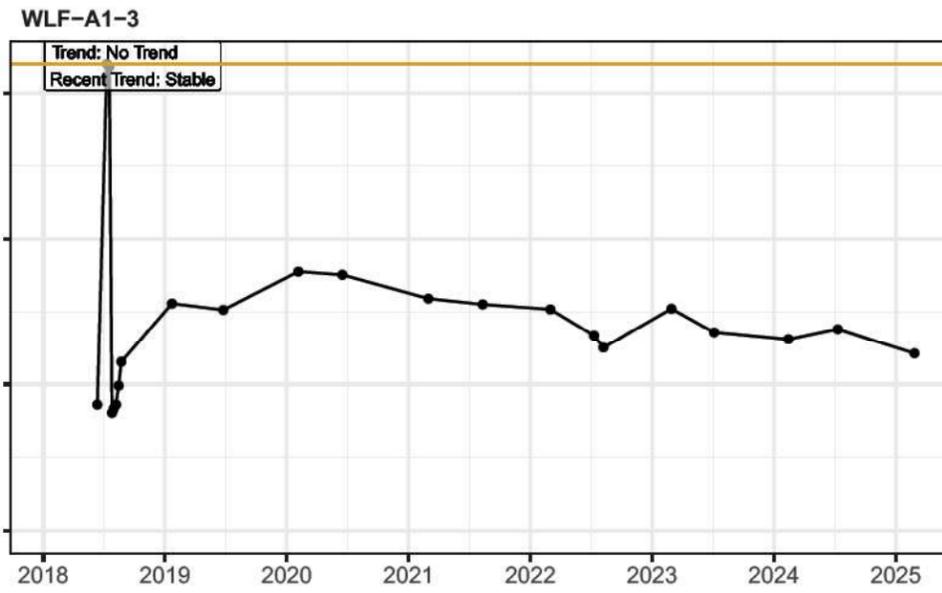
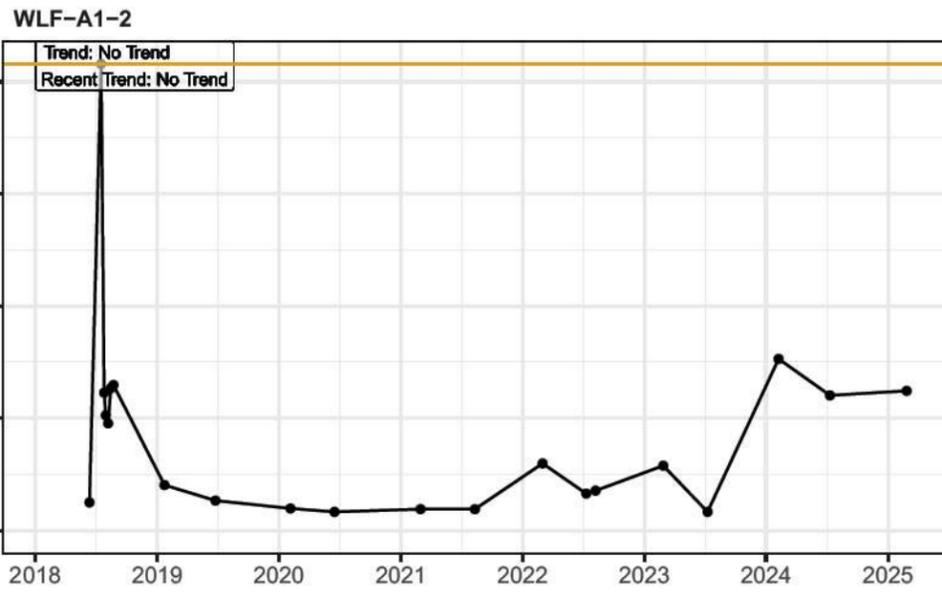
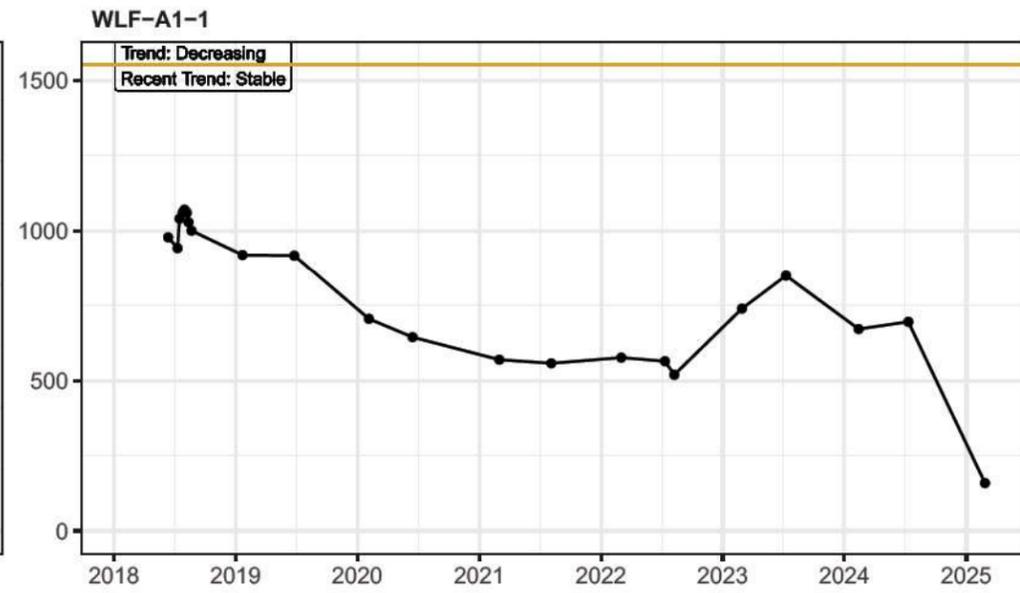
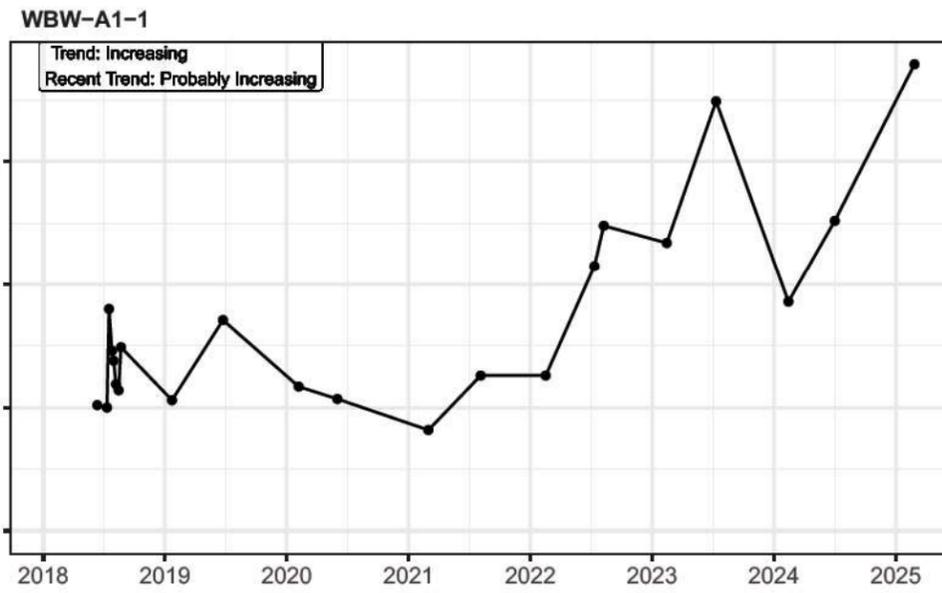
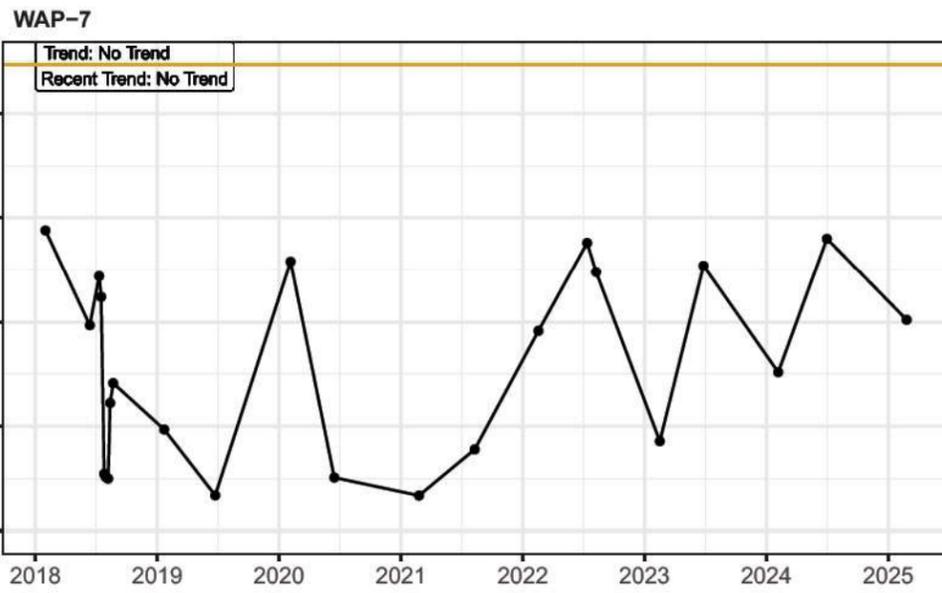


Sample Date (January 1st of the indicated year)

linetype — Lower Prediction Limit - - - Upper Prediction Limit Detection Status: • Detect

Notes: *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 Plots for Sulfate

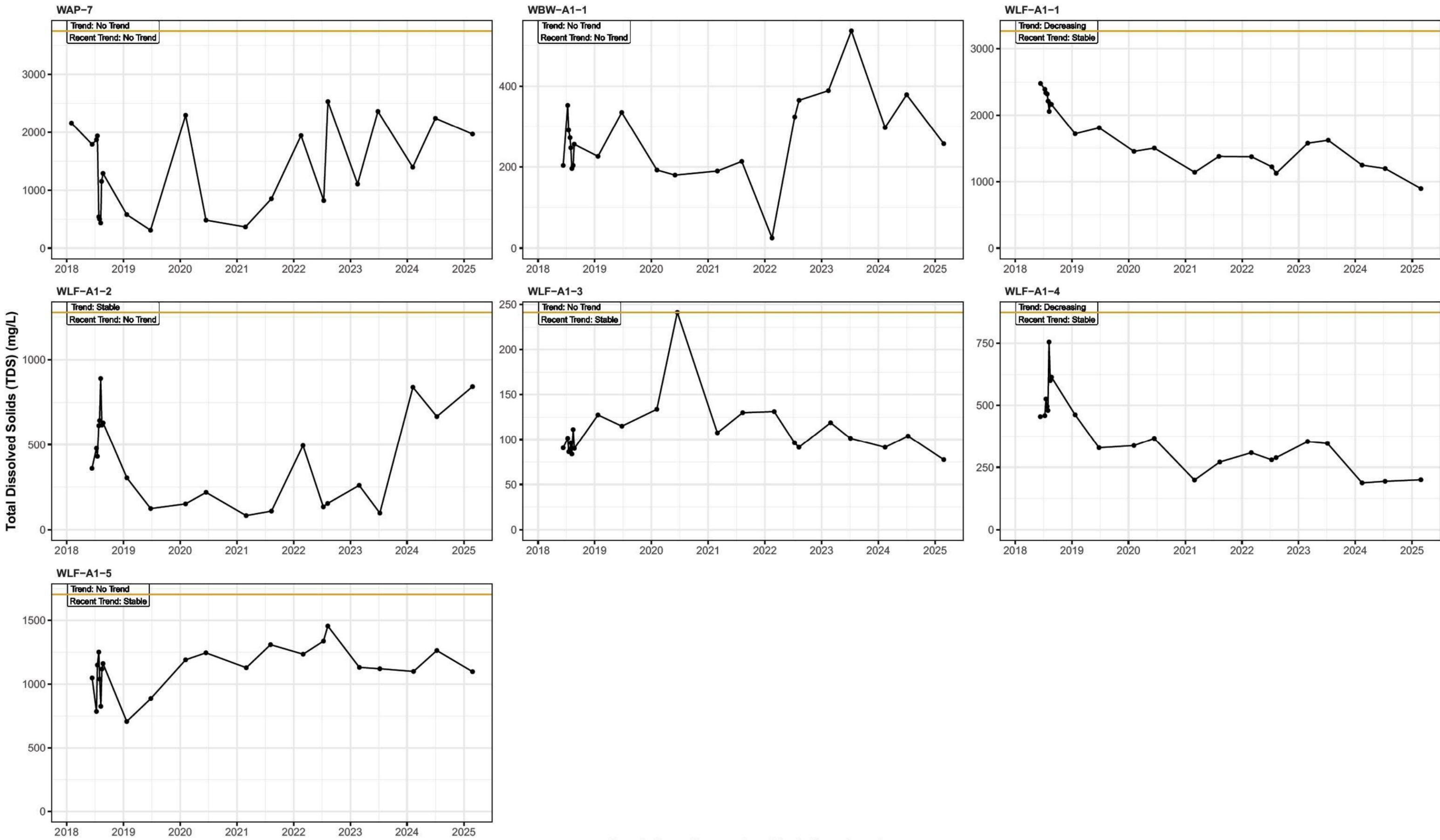


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for Total Dissolved Solids (TDS)



Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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

December 23, 2025
File No. 0132892-102

SUBJECT: Statistical Evaluation of the June 2025 Semiannual Groundwater Detection Monitoring Data, Winyah Generating Station, Class 3 Landfill Area 1

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93 and § 257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the June 2025 semiannual detection monitoring event for the Winyah Generating Station Class 3 Landfill Area 1. Data for this groundwater sampling event were validated on September 26, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

The results of analytical testing performed on samples collected from the groundwater monitoring network are evaluated to determine whether there has been a statistically significant increase (SSI) or statistically significant decrease (SSD) over baseline for one or more detection monitoring constituents. After completion of baseline sampling, the initial statistical analysis identified SSIs for one or more Appendix III constituents downgradient of the Class 3 Landfill Area 1. Recognizing the Unit 2 Slurry Pond was previously located in the footprint of Class 3 Landfill Area 1 and had been closed-by-removal of coal combustion residual (CCR) material pursuant to state regulatory requirements, alternative source demonstrations (ASDs) were completed in September 2019, October 2022, and again in October 2024. The September 2019 ASD concluded the closed Unit 2 Slurry Pond was the alternate source of the Appendix III constituents that had SSIs at that time. The October 2022 ASD again concluded that the Unit 2 Slurry Pond was the source for the Appendix III SSIs, and accordingly, the Class 3 Landfill Area 1 was not the source of the fluoride, boron, and chloride SSIs. The October 2024 ASD concluded that prior SSIs associated with Appendix III constituents continued to be directly associated with the Unit 2 Slurry Pond. As a result of the successful ASDs, the Class 3 Landfill Area 1 remains in detection monitoring. Subsequently, intrawell statistical evaluations have been conducted for the Appendix III constituents.

Using intrawell evaluations, sample data from the June 2025 semiannual groundwater sampling event for the downgradient monitoring wells were compared to prediction limits (PLs). The results of the groundwater detection monitoring statistical evaluation are discussed below and provided in Table 1.

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 SSI of Appendix III parameters compared to baseline groundwater quality of the CCR Unit. The intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of its own historical data.

To statistically evaluate the analytical results, the baseline PL, which is a type of prediction interval method, was selected to evaluate the data. The prediction interval method is one of the methods outlined in the Rule. A prediction interval procedure is where a concentration limit for each constituent is established from the distribution of the background data, with a specified confidence level (e.g., 95 percent). The upper endpoint of a concentration limit is called the upper prediction limit (UPL), and the lower endpoint is called the lower prediction limit (LPL). Depending on the baseline data distribution, parametric or non-parametric prediction limit procedures are used to evaluate groundwater monitoring data using this method. Parametric prediction limits use normally distributed data or normalized data via a transformation of the sample background data.

If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the PL. If all the baseline data are non-detect, a maximum reporting limit (RL) may serve as an approximate UPL. LPLs are only calculated for pH data. Valid pH measurements should always be greater than detection limits at this site, but the minimum value may serve as a non-parametric LPL. We note that depending on the available sample size, PLs generated from non-parametric or maximum RLs may not achieve the same target statistical confidence limits as the parametric PLs. In the case of the Class 3 Landfill Area 1, the statistical analysis was conducted using both parametric and non-parametric PLs.

After testing for outliers, PLs were calculated from baseline datasets to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the baseline 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.

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), baseline concentrations were based on statistical evaluation of analytical results collected through February 2025 and updated in the Statistical Output produced with R programming software (Attachment A). The background dataset was updated during the first semiannual sampling event in February 2025 and will be updated after four additional data points are collected (first 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 36 downgradient well/constituent data sets that were evaluated for recent trends, 71 percent were stable or decreasing, 8 percent were increasing, and 21 percent were variable with no statistically significant trend. Increasing trends were identified for boron, chloride, and total dissolved solids at WLF-A1-2. It is important to note that increasing trends are not a part of the SSI identification process. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF DETECTION MONITORING DOWNGRAIDENT STATISTICAL COMPARISONS

Analytical results for each Appendix III constituent were compared to the background value of that constituent to determine whether an SSI has occurred (Table 1). A sample concentration greater than the UPL (or less than LPL for pH) indicates an SSI over background using intrawell comparisons. Note that intrawell comparisons alone do not account for conditions in upgradient background wells.

SSIs/SSDs were detected for the following:

- Boron SSI at WLF-A1-2.
- pH SSD at WLF-A1-4.

Boron at well WLF-A1-2 (2.72 milligrams per liter [mg/L]) exceeded the UPL of 2.28 mg/L under intrawell comparison, resulting in an SSI. The UPL was derived using a non-parametric calculation and because of the sample count, only achieves an 84.6 percent confidence level (false positive rate 15.4 percent). Notably, an SSI for calcium was also identified at this well during the February 2024 event but has not been observed in subsequent monitoring. Current boron concentrations remain within the historical range for wells at this unit prior to CCR placement in the Class 3 Landfill Area 1 and are consistent with findings reported in the 2019 and 2022 ASDs.

At WLF-A1-4, pH measured 5.51 standard units (SU), which is below the intrawell LPL of 5.56 SU and flagged as an SSD. However, this value aligns with the established decreasing trend in pH at this well and is:

- greater than values at the upgradient background well WBW-A1-1 (e.g., 4.51 SU on June 23, 2025; Table 1);
- within the historical range observed prior to CCR placement at Class 3 Landfill Area 1; and
- consistent with historical groundwater pH results at the closed Unit 2 Slurry Pond reported in the 2019 ASD.

Therefore, the pH result at WLF-A1-4 is not interpreted as an SSD of significant concern and will continue to be monitored in subsequent sampling events.

Statistical results and trends in concentrations will continue to be evaluated during subsequent sampling events. As such, the Class 3 Landfill Area 1 will remain in detection monitoring, and an updated ASD will be completed for boron and pH.

Enclosures:

Table 1 – June 2025 Semiannual Groundwater Detection Monitoring Data
(WGS Class 3 Landfill Area 1)

Attachment A – Statistical Output, June 2025

TABLE

TABLE 1

JUNE 2025 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA (WGS CLASS 3 LANDFILL AREA 1)

WINYAH GENERATING STATION

CLASS 3 LANDFILL AREA 1

Location	Frequency of Detection	Percent of Detected Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	CCR MCL/RSL	Number of MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Intra-well Analysis				
												Assumed Data Distribution	Sample Date	June 2025 Concentration	Intrawell Prediction Limits ^[b]	Statistically Significant Increases (SSIs)
CCR Appendix III: Boron, Total (mg/L)																
WBW-A1-1	22/22	100%	NA	0.0447	0.0420	0.074	0.078	35%	NA	NA	No Trend	Parametric	6/23/2025	0.0744	NA	NA
WAP-7	21/21	100%	NA	1.44	0.89	4.00	4.00	94%	NA	NA	Probably Decreasing	Non-Parametric	6/25/2025	0.49	4.00	No
WLF-A1-1	23/23	100%	NA	2.21	2.4	4.00	4.10	68%	NA	NA	Stable	Non-Parametric	6/24/2025	0.415	4.10	No
WLF-A1-2	23/23	100%	NA	0.741	0.55	2.23	2.72	102%	NA	NA	Increasing	Non-Parametric	6/25/2025	2.72	2.28	Yes
WLF-A1-3	23/23	100%	NA	0.137	0.097	0.276	0.48	70%	NA	NA	Decreasing	Non-Parametric	6/24/2025	0.0794	0.48	No
WLF-A1-4	23/23	100%	NA	0.317	0.26	0.559	1.20	72%	NA	NA	Decreasing	Non-Parametric	6/24/2025	0.108	1.20	No
WLF-A1-5	23/23	100%	NA	2.08	2.02	2.98	3.00	24%	NA	NA	Probably Increasing	Parametric	6/24/2025	2.2	3.700	No
CCR Appendix III: Calcium, Total (mg/L)																
WBW-A1-1	23/23	100%	NA	56	49	93	121	47%	NA	NA	Stable	Parametric	6/23/2025	66.2	NA	NA
WAP-7	24/24	100%	NA	358	330	671	690	61%	NA	NA	Stable	Parametric	6/25/2025	290	1073	No
WLF-A1-1	23/23	100%	NA	414	413	608	746	38%	NA	NA	Stable	Parametric	6/24/2025	222	911.8	No
WLF-A1-2	23/23	100%	NA	92	91	188	193	75%	NA	NA	Probably Increasing	Parametric	6/25/2025	185	304.2	No
WLF-A1-3	23/23	100%	NA	16	18	26	26	44%	NA	NA	Stable	Parametric	6/24/2025	13.6	37.8	No
WLF-A1-4	23/23	100%	NA	96	86	183	212	53%	NA	NA	Stable	Parametric	6/24/2025	38.4	257.6	No
WLF-A1-5	23/23	100%	NA	246	263	309	321	27%	NA	NA	Stable	Non-Parametric	6/24/2025	272	321.0	No
CCR Appendix III: Chloride, Total (mg/L)																
WBW-A1-1	23/23	100%	NA	15.4	12.3	37.5	67.5	85%	NA	NA	Stable	Non-Parametric	6/23/2025	11.5	NA	NA
WAP-7	24/24	100%	NA	37.7	22.5	107	123	92%	NA	NA	Decreasing	Non-Parametric	6/25/2025	13.8	123	No
WLF-A1-1	23/23	100%	NA	93.3	70.1	248	270	88%	NA	NA	Decreasing	Parametric	6/24/2025	11.5	360	No
WLF-A1-2	22/22	100%	NA	52.4	27.6	141	211	107%	NA	NA	Increasing	Non-Parametric	6/25/2025	142	211	No
WLF-A1-3	23/23	100%	NA	6.68	4.13	6.48	59.3	172%	NA	NA	Decreasing	Non-Parametric	6/24/2025	3.46	59.3	No
WLF-A1-4	23/23	100%	NA	8.94	6.83	15.8	41.3	87%	NA	NA	Stable	Non-Parametric	6/24/2025	3.93	41.3	No
WLF-A1-5	23/23	100%	NA	134	146	175	183	27%	NA	NA	Stable	Parametric	6/24/2025	146	251	No
CCR Appendix III: Fluoride (mg/L)																
WBW-A1-1	1/22	5%	0.1 - 0.1	0.10	0.10	0.10	0.103	1%	4	0	Not Evaluated	Non-Parametric	6/23/2025	<0.1	NA	NA
WAP-7	1/22	5%	0.1 - 0.1	0.10	0.10	0.10	0.15	10%	4	0	Not Evaluated	Non-Parametric	6/25/2025	<0.1	0	No
WLF-A1-1	0/23	0%	0.1 - 0.1	0.10	0.10	0.10	NA	0%	4	0	Not Evaluated	Non-Parametric	6/24/2025	<0.1	0	No
WLF-A1-2	4/23	17%	0.1 - 0.1	0.10	0.10	0.13	0.14	10%	4	0	Not Evaluated	Non-Parametric	6/25/2025	<0.1	0	No
WLF-A1-3	1/23	4%	0.1 - 0.1	0.10	0.10	0.10	0.15	10%	4	0	Not Evaluated	Non-Parametric	6/24/2025	<0.1	0.2	No
WLF-A1-4	0/23	0%	0.1 - 0.1	0.10	0.10	0.10	NA	0%	4	0	Not Evaluated	Non-Parametric	6/24/2025	<0.1	0.1	No
WLF-A1-5	1/23	4%	0.1 - 0.1	0.10	0.10	0.10	0.11	2%	4	0	Not Evaluated	Non-Parametric	6/24/2025	<0.1	0.1	No

TABLE 1
JUNE 2025 SEMIANNUAL GROUNDWATER DETECTION MONITORING DATA (WGS CLASS 3 LANDFILL AREA 1)
 WINYAH GENERATING STATION
 CLASS 3 LANDFILL AREA 1

Location	Frequency of Detection	Percent of Detected Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	CCR MCL/RSL	Number of MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Intra-well Analysis				
												Assumed Data Distribution	Sample Date	June 2025 Concentration	Intrawell Prediction Limits ^[b]	Statistically Significant Increases (SSIs)
CCR Appendix III: pH, Field (SU) [c]																
WBW-A1-1	23/23	100%	NA	4.53	4.56	4.70	4.72	3%	NA	NA	Stable	Parametric	6/23/2025	4.51	NA	NA
WAP-7	24/24	100%	NA	6.06	6.07	6.57	6.69	7%	NA	NA	Stable	Parametric	6/25/2025	6.05	7.47 / 4.65	No
WLF-A1-1	23/23	100%	NA	6.25	6.29	6.47	6.47	3%	NA	NA	No Trend	Parametric	6/24/2025	6.16	6.85 / 5.66	No
WLF-A1-2	23/23	100%	NA	5.64	5.88	6.59	6.67	14%	NA	NA	No Trend	Parametric	6/25/2025	5.88	8.14 / 3.11	No
WLF-A1-3	24/24	100%	NA	4.24	4.23	4.46	4.58	4%	NA	NA	Stable	Parametric	6/24/2025	4.01	4.76 / 3.73	No
WLF-A1-4	23/23	100%	NA	6.28	6.29	6.62	6.74	5%	NA	NA	Stable	Parametric	6/24/2025	5.51	7.07 / 5.56	Yes*
WLF-A1-5	23/23	100%	NA	6.89	6.89	7.03	7.07	2%	NA	NA	Probably Increasing	Non-Parametric	6/24/2025	6.97	7.07 / 6.46	No
CCR Appendix III: Sulfate (mg/L)																
WBW-A1-1	23/23	100%	NA	170	146	339	379	46%	NA	NA	No Trend	Non-Parametric	6/23/2025	173	NA	NA
WAP-7	24/24	100%	NA	777	733	1400	1440	58%	NA	NA	Stable	Parametric	6/25/2025	574.0	2235	No
WLF-A1-1	23/23	100%	NA	764	739	1060	1070	33%	NA	NA	Stable	Parametric	6/24/2025	301.0	1553	No
WLF-A1-2	22/22	100%	NA	213	146	378	1040	103%	NA	NA	No Trend	Non-Parametric	6/25/2025	304.0	1040	No
WLF-A1-3	23/23	100%	NA	73	68	152	160	42%	NA	NA	Stable	Non-Parametric	6/24/2025	51.9	160.0	No
WLF-A1-4	23/23	100%	NA	119	93	242	366	64%	NA	NA	Stable	Non-Parametric	6/24/2025	47.1	366.0	No
WLF-A1-5	23/23	100%	NA	399	383	527	575	21%	NA	NA	Stable	Parametric	6/24/2025	383	676.9	No
CCR Appendix III: Total Dissolved Solids (mg/L)																
WBW-A1-1	23/23	100%	NA	270.0	258.0	388.0	536.2	37%	NA	NA	Stable	Parametric	6/23/2025	270	NA	NA
WAP-7	24/24	100%	NA	1330	1220	2350	2531	56%	NA	NA	Stable	Parametric	6/25/2025	1050.0	3750	No
WLF-A1-1	23/23	100%	NA	1660	1580	2390	2480	31%	NA	NA	Stable	Parametric	6/24/2025	805.0	3270	No
WLF-A1-2	23/23	100%	NA	436.0	430.0	885.0	902.5	65%	NA	NA	Increasing	Parametric	6/25/2025	902.5	1280	No
WLF-A1-3	23/23	100%	NA	109.0	101.0	134.0	241.2	30%	NA	NA	Stable	Non-Parametric	6/24/2025	97.5	241	No
WLF-A1-4	23/23	100%	NA	377.0	346.0	612.0	755.0	41%	NA	NA	Stable	Parametric	6/24/2025	162.5	874.0	No
WLF-A1-5	23/23	100%	NA	1120	1130	1340	1456	16%	NA	NA	Stable	Parametric	6/24/2025	1205	1710	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] Intrawell Prediction Limits are calculated from data collected from individual downgradient wells. No statistical outlier data points were removed from background datasets.

[c] Upper Prediction Limit (UPL) / Lower Prediction Limit (LPL): SSIs are identified as sample results below the LPL or above the UPL.

MCL/RSL: Maximum contaminant level/Regional screening level

mg/L: milligrams per liter, SU = standard pH units

NA: not applicable

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

Yes* = considered a statistically significant decrease

ATTACHMENT A
Statistical Output, June 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
WAP-7	Boron	mg/L	21	0	0	4	0.11	1.44	0.89	1.4	94	NA	2018-06-13 to 2025-06-25
WBW-A1-1	Boron	mg/L	22	0	0	0.078	0.0148	0.0447	0.042	0.016	35.2	NA	2018-06-12 to 2025-06-23
WLF-A1-1	Boron	mg/L	23	0	0	4.1	0.0763	2.21	2.4	1.5	67.9	NA	2018-06-13 to 2025-06-24
WLF-A1-2	Boron	mg/L	23	0	0	2.72	0.087	0.741	0.55	0.76	102	NA	2018-06-12 to 2025-06-25
WLF-A1-3	Boron	mg/L	23	0	0	0.48	0.059	0.137	0.097	0.097	70.2	NA	2018-06-12 to 2025-06-24
WLF-A1-4	Boron	mg/L	23	0	0	1.2	0.108	0.317	0.26	0.23	72	NA	2018-06-12 to 2025-06-24
WLF-A1-5	Boron	mg/L	23	0	0	3	1.3	2.08	2.02	0.5	23.8	NA	2018-06-13 to 2025-06-24
WAP-7	Calcium	mg/L	24	0	0	690	53.9	358	329.5	220	61.2	NA	2018-01-31 to 2025-06-25
WBW-A1-1	Calcium	mg/L	23	0	0	121	0.032	56	49	26	46.9	NA	2018-06-12 to 2025-06-23
WLF-A1-1	Calcium	mg/L	23	0	0	746	0.62	414	413	150	37.5	NA	2018-06-13 to 2025-06-24
WLF-A1-2	Calcium	mg/L	23	0	0	193	0.06	92.4	90.7	69	74.6	NA	2018-06-12 to 2025-06-25
WLF-A1-3	Calcium	mg/L	23	0	0	26.3	0.0065	15.5	18	6.8	43.9	NA	2018-06-12 to 2025-06-24
WLF-A1-4	Calcium	mg/L	23	0	0	212	0.13	95.5	86	50	52.5	NA	2018-06-12 to 2025-06-24
WLF-A1-5	Calcium	mg/L	23	0	0	321	0.21	246	263	67	27.2	NA	2018-06-13 to 2025-06-24
WAP-7	Chloride	mg/L	24	0	0	123	4.67	37.7	22.45	35	92.4	NA	2018-01-31 to 2025-06-25
WBW-A1-1	Chloride	mg/L	23	0	0	67.5	7.43	15.4	12.3	13	84.5	NA	2018-06-12 to 2025-06-23
WLF-A1-1	Chloride	mg/L	23	0	0	270	9.88	93.3	70.1	82	87.9	NA	2018-06-13 to 2025-06-24
WLF-A1-2	Chloride	mg/L	22	0	0	211	2.32	52.4	27.55	56	107	NA	2018-06-12 to 2025-06-25
WLF-A1-3	Chloride	mg/L	23	0	0	59.3	2.81	6.68	4.13	12	172	NA	2018-06-12 to 2025-06-24
WLF-A1-4	Chloride	mg/L	23	0	0	41.3	3.3	8.94	6.83	7.7	86.7	NA	2018-06-12 to 2025-06-24
WLF-A1-5	Chloride	mg/L	23	0	0	183	66.7	134	146	36	26.6	NA	2018-06-12 to 2025-06-24
WAP-7	Fluoride	mg/L	22	21	95	0.15	0.1	0.102	0.1	0.011	10.4	0.1 - 0.1	2018-06-13 to 2025-06-25
WBW-A1-1	Fluoride	mg/L	22	21	95	0.103	0.1	0.1	0.1	0.00064	0.639	0.1 - 0.1	2018-06-12 to 2025-06-23
WLF-A1-1	Fluoride	mg/L	23	23	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2018-06-13 to 2025-06-24
WLF-A1-2	Fluoride	mg/L	23	19	83	0.14	0.1	0.104	0.1	0.011	10.3	0.1 - 0.1	2018-06-12 to 2025-06-25
WLF-A1-3	Fluoride	mg/L	23	22	96	0.15	0.1	0.102	0.1	0.01	10.2	0.1 - 0.1	2018-06-12 to 2025-06-24
WLF-A1-4	Fluoride	mg/L	23	23	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2018-06-12 to 2025-06-24
WLF-A1-5	Fluoride	mg/L	23	22	96	0.11	0.1	0.1	0.1	0.0021	2.08	0.1 - 0.1	2018-06-13 to 2025-06-24
WAP-7	Sulfate	mg/L	24	0	0	1440	169	777	733	450	57.6	NA	2018-01-31 to 2025-06-25
WBW-A1-1	Sulfate	mg/L	23	0	0	379	81.8	170	146	78	45.9	NA	2018-06-12 to 2025-06-23
WLF-A1-1	Sulfate	mg/L	23	0	0	1070	159	764	739	260	33.4	NA	2018-06-13 to 2025-06-24
WLF-A1-2	Sulfate	mg/L	22	0	0	1040	41.5	213	146.5	220	103	NA	2018-06-12 to 2025-06-25
WLF-A1-3	Sulfate	mg/L	23	0	0	160	40.2	72.9	67.9	31	42.4	NA	2018-06-12 to 2025-06-24
WLF-A1-4	Sulfate	mg/L	23	0	0	366	47.1	119	92.5	76	63.6	NA	2018-06-12 to 2025-06-24
WLF-A1-5	Sulfate	mg/L	23	0	0	575	246	399	383	85	21.2	NA	2018-06-13 to 2025-06-24
WAP-7	Total Dissolved Solids (TDS)	mg/L	24	0	0	2531	309	1.33e+03	1220	740	55.7	NA	2018-01-31 to 2025-06-25
WBW-A1-1	Total Dissolved Solids (TDS)	mg/L	23	0	0	536.2	25	270	257.5	100	37.2	NA	2018-06-12 to 2025-06-23
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	23	0	0	2480	805	1.66e+03	1578	510	30.9	NA	2018-06-13 to 2025-06-24
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	23	0	0	902.5	82.5	436	430	280	64.7	NA	2018-06-12 to 2025-06-25
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	23	0	0	241.2	77.5	109	101.2	33	30.2	NA	2018-06-12 to 2025-06-24
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	23	0	0	755	162	377	346.2	160	41.3	NA	2018-06-12 to 2025-06-24
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	23	0	0	1456	708	1.12e+03	1132	180	16	NA	2018-06-13 to 2025-06-24
WAP-7	pH, Field	pH units	24	0	0	6.69	5.36	6.06	6.075	0.43	7.14	NA	2018-01-31 to 2025-06-25
WBW-A1-1	pH, Field	pH units	23	0	0	4.72	4.17	4.53	4.56	0.14	3.17	NA	2018-06-12 to 2025-06-23
WLF-A1-1	pH, Field	pH units	23	0	0	6.47	5.79	6.25	6.29	0.18	2.92	NA	2018-06-13 to 2025-06-24
WLF-A1-2	pH, Field	pH units	23	0	0	6.67	4.45	5.64	5.88	0.77	13.6	NA	2018-06-12 to 2025-06-25
WLF-A1-3	pH, Field	pH units	24	0	0	4.58	3.91	4.24	4.23	0.17	3.91	NA	2018-06-12 to 2025-06-24
WLF-A1-4	pH, Field	pH units	23	0	0	6.74	5.51	6.28	6.29	0.28	4.53	NA	2018-06-12 to 2025-06-24
WLF-A1-5	pH, Field	pH units	23	0	0	7.07	6.46	6.89	6.89	0.12	1.8	NA	2018-06-13 to 2025-06-24

Note:
NA = not applicable, constituent detected in all reported samples.

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)	Data Normality (significance level = 0.01)
WAP-7	Boron	0.811	0.00098	21	0	Not normal	Not normal
WBW-A1-1	Boron	0.957	0.43	22	0	Normal	Normal
WLF-A1-1	Boron	0.852	0.003	23	0	Not normal	Not normal
WLF-A1-2	Boron	0.818	0.00076	23	0	Not normal	Not normal
WLF-A1-3	Boron	0.726	3.1e-05	23	0	Not normal	Not normal
WLF-A1-4	Boron	0.701	1.4e-05	23	0	Not normal	Not normal
WLF-A1-5	Boron	0.935	0.14	23	0	Normal	Normal
WAP-7	Calcium	0.901	0.022	24	0	Not normal	Normal
WBW-A1-1	Calcium	0.969	0.65	23	0	Normal	Normal
WLF-A1-1	Calcium	0.972	0.74	23	0	Normal	Normal
WLF-A1-2	Calcium	0.874	0.0075	23	0	Not normal	Not normal
WLF-A1-3	Calcium	0.945	0.23	23	0	Normal	Normal
WLF-A1-4	Calcium	0.966	0.59	23	0	Normal	Normal
WLF-A1-5	Calcium	0.760	9.5e-05	23	0	Not normal	Not normal
WAP-7	Chloride	0.821	0.00067	24	0	Not normal	Not normal
WBW-A1-1	Chloride	0.503	9.1e-08	23	0	Not normal	Not normal
WLF-A1-1	Chloride	0.879	0.0096	23	0	Not normal	Not normal
WLF-A1-2	Chloride	0.813	0.0008	22	0	Not normal	Not normal
WLF-A1-3	Chloride	0.281	1.2e-09	23	0	Not normal	Not normal
WLF-A1-4	Chloride	0.572	4.5e-07	23	0	Not normal	Not normal
WLF-A1-5	Chloride	0.922	0.073	23	0	Normal	Normal
WAP-7	Fluoride	0.221	7.4e-10	22	21	Not normal	Not normal
WBW-A1-1	Fluoride	0.221	7.4e-10	22	21	Not normal	Not normal
WLF-A1-1	Fluoride	NA	NA	23	23	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
WLF-A1-2	Fluoride	0.490	6.9e-08	23	19	Not normal	Not normal
WLF-A1-3	Fluoride	0.215	4e-10	23	22	Not normal	Not normal
WLF-A1-4	Fluoride	NA	NA	23	23	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
WLF-A1-5	Fluoride	0.215	4e-10	23	22	Not normal	Not normal
WAP-7	Sulfate	0.904	0.026	24	0	Not normal	Normal
WBW-A1-1	Sulfate	0.852	0.003	23	0	Not normal	Not normal
WLF-A1-1	Sulfate	0.919	0.063	23	0	Normal	Normal
WLF-A1-2	Sulfate	0.693	1.6e-05	22	0	Not normal	Not normal
WLF-A1-3	Sulfate	0.768	0.00012	23	0	Not normal	Not normal
WLF-A1-4	Sulfate	0.786	0.00023	23	0	Not normal	Not normal
WLF-A1-5	Sulfate	0.976	0.83	23	0	Normal	Normal
WAP-7	Total Dissolved Solids (TDS)	0.913	0.04	24	0	Not normal	Normal
WBW-A1-1	Total Dissolved Solids (TDS)	0.947	0.25	23	0	Normal	Normal
WLF-A1-1	Total Dissolved Solids (TDS)	0.939	0.17	23	0	Normal	Normal
WLF-A1-2	Total Dissolved Solids (TDS)	0.906	0.033	23	0	Not normal	Normal
WLF-A1-3	Total Dissolved Solids (TDS)	0.673	6.4e-06	23	0	Not normal	Not normal
WLF-A1-4	Total Dissolved Solids (TDS)	0.947	0.25	23	0	Normal	Normal
WLF-A1-5	Total Dissolved Solids (TDS)	0.938	0.16	23	0	Normal	Normal
WAP-7	pH, Field	0.924	0.072	24	0	Normal	Normal
WBW-A1-1	pH, Field	0.942	0.2	23	0	Normal	Normal
WLF-A1-1	pH, Field	0.925	0.087	23	0	Normal	Normal
WLF-A1-2	pH, Field	0.903	0.029	23	0	Not normal	Normal
WLF-A1-3	pH, Field	0.984	0.95	24	0	Normal	Normal
WLF-A1-4	pH, Field	0.957	0.41	23	0	Normal	Normal
WLF-A1-5	pH, Field	0.856	0.0035	23	0	Not normal	Not normal

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
WAP-7	Boron	21	0	NA	0.08247	0.2021	NA	NA	No	No
WBW-A1-1	Boron	22	0	NA	0.2429	0.813	NA	NA	No	No
WLF-A1-1	Boron	23	0	NA	0.0932	0.2896	NA	NA	No	No
WLF-A1-2	Boron	23	0	NA	0.3525	0.2641	NA	NA	No	No
WLF-A1-3	Boron	23	0	NA	0.5366	0.008302	NA	NA	Yes	No
WLF-A1-4	Boron	23	0	NA	0.6155	0	NA	NA	Yes	No
WLF-A1-5	Boron	23	0	NA	0.1333	0.5211	NA	NA	No	No
WAP-7	Calcium	24	0	NA	0.1416	0.5977	NA	NA	No	No
WBW-A1-1	Calcium	23	0	NA	0.3258	0.3599	NA	NA	No	No
WLF-A1-1	Calcium	23	0	NA	0.4189	0.1034	NA	NA	No	No
WLF-A1-2	Calcium	23	0	NA	0.03386	0.04177	NA	NA	Yes	No
WLF-A1-3	Calcium	23	0	NA	0.324	0.3671	NA	NA	No	No
WLF-A1-4	Calcium	23	0	NA	0.3426	0.2974	NA	NA	No	No
WLF-A1-5	Calcium	23	0	NA	0.5977	0	NA	NA	Yes	No
WAP-7	Chloride	24	0	NA	0.2233	0.8541	NA	NA	No	No
WBW-A1-1	Chloride	23	0	NA	0.8693	0	NA	NA	Yes	No
WLF-A1-1	Chloride	23	0	NA	0.2515	0.7261	NA	NA	No	No
WLF-A1-2	Chloride	22	0	NA	0.4332	0.09509	NA	NA	No	No
WLF-A1-3	Chloride	23	0	NA	0.9583	0	NA	NA	Yes	No
WLF-A1-4	Chloride	23	0	NA	0.7351	0	NA	NA	Yes	No
WLF-A1-5	Chloride	23	0	NA	0.1305	0.5036	NA	NA	No	No
WAP-7	Fluoride	22	21	NA	Only 1 detected result.	NA	NA	NA	NA	No
WBW-A1-1	Fluoride	22	21	NA	Only 1 detected result.	NA	NA	NA	NA	No
WLF-A1-1	Fluoride	23	23	NA	All results are non-detect	NA	NA	NA	NA	No
WLF-A1-2	Fluoride	23	19	NA	0.5	0.02229	NA	NA	Yes	No
WLF-A1-3	Fluoride	23	22	NA	Only 1 detected result.	NA	NA	NA	NA	No
WLF-A1-4	Fluoride	23	23	NA	All results are non-detect	NA	NA	NA	NA	No
WLF-A1-5	Fluoride	23	22	NA	Only 1 detected result.	NA	NA	NA	NA	No
WAP-7	Sulfate	24	0	NA	0.05042	0.1099	NA	NA	No	No
WBW-A1-1	Sulfate	23	0	NA	0.4585	0.05252	NA	NA	No	No
WLF-A1-1	Sulfate	23	0	NA	0.3996	0.1395	NA	NA	No	No
WLF-A1-2	Sulfate	22	0	NA	0.7223	0	NA	NA	Yes	No
WLF-A1-3	Sulfate	23	0	NA	0.6077	0	NA	NA	Yes	No
WLF-A1-4	Sulfate	23	0	NA	0.4962	0.02418	NA	NA	Yes	No
WLF-A1-5	Sulfate	23	0	NA	0.2283	0.8654	NA	NA	No	No
WAP-7	Total Dissolved Solids (TDS)	24	0	NA	0.1121	0.4065	NA	NA	No	No
WBW-A1-1	Total Dissolved Solids (TDS)	23	0	NA	0.4547	0.05652	NA	NA	No	No
WLF-A1-1	Total Dissolved Solids (TDS)	23	0	NA	0.2086	0.9896	NA	NA	No	No
WLF-A1-2	Total Dissolved Solids (TDS)	23	0	NA	0.0756	0.2027	NA	NA	No	No
WLF-A1-3	Total Dissolved Solids (TDS)	23	0	NA	0.7099	0	NA	NA	Yes	No
WLF-A1-4	Total Dissolved Solids (TDS)	23	0	NA	0.2762	0.5883	NA	NA	No	No
WLF-A1-5	Total Dissolved Solids (TDS)	23	0	NA	0.197	0.9338	NA	NA	No	No
WAP-7	pH, Field	24	0	NA	0.01653	0	NA	NA	Yes	No
WBW-A1-1	pH, Field	23	0	NA	0.3462	0.2852	NA	NA	No	No
WLF-A1-1	pH, Field	23	0	NA	0.3636	0.2294	NA	NA	No	No
WLF-A1-2	pH, Field	23	0	NA	0.01905	0	NA	NA	Yes	No
WLF-A1-3	pH, Field	24	0	NA	0.2281	0.8242	NA	NA	No	No
WLF-A1-4	pH, Field	23	0	NA	0.3514	0.2678	NA	NA	No	No
WLF-A1-5	pH, Field	23	0	NA	0.625	0	NA	NA	Yes	No

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

Location	Constituent	Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)						
		Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)								
		Trends, All Data	Trends, Recent Data	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)		
WAP-7	Boron	Increasing	Probably Decreasing	21	21	0.94	0.411	0.0102	99	86	8	8	2020-02-05 to 2025-06-25	0.567	-0.546	0.0809	91.9	-15
WBW-A1-1	Boron	Increasing	No Trend	22	22	0.352	0.361	0.0207	97.9	83	8	8	2020-06-01 to 2025-06-23	0.182	0.5	0.108	89.2	14
WLF-A1-1	Boron	Decreasing	Stable	23	23	0.679	-0.811	0.000000801	100	-204	8	8	2020-06-15 to 2025-06-24	0.564	-0.5	0.108	89.2	-14
WLF-A1-2	Boron	No Trend	Increasing	23	23	1.02	0.0716	0.653	34.7	18	8	8	2020-06-16 to 2025-06-25	0.884	0.929	0.00198	99.8	26
WLF-A1-3	Boron	No Trend	Decreasing	23	23	0.702	0.158	0.303	69.7	40	8	8	2020-06-16 to 2025-06-24	0.368	-0.786	0.00937	99.1	-22
WLF-A1-4	Boron	Decreasing	Decreasing	23	23	0.72	-0.641	0.0000231	100	-161	8	8	2020-06-15 to 2025-06-24	0.309	-0.786	0.00937	99.1	-22
WLF-A1-5	Boron	Stable	Probably Increasing	23	23	0.238	-0.19	0.222	77.8	-47	8	8	2020-06-15 to 2025-06-24	0.11	0.546	0.0809	91.9	15
WAP-7	Calcium	No Trend	Stable	24	24	0.612	0.232	0.118	88.2	64	8	8	2020-06-15 to 2025-06-25	0.344	-0.429	0.174	82.6	-12
WBW-A1-1	Calcium	Increasing	Stable	23	23	0.469	0.336	0.0265	97.4	85	8	8	2020-06-01 to 2025-06-23	0.223	-0.286	0.386	61.4	-8
WLF-A1-1	Calcium	Decreasing	Stable	23	23	0.375	-0.589	0.0000928	100	-149	8	8	2020-06-15 to 2025-06-24	0.232	-0.5	0.108	89.2	-14
WLF-A1-2	Calcium	No Trend	Probably Increasing	23	23	0.746	0.0871	0.579	42.1	22	8	8	2020-06-16 to 2025-06-25	0.71	0.571	0.0635	93.7	16
WLF-A1-3	Calcium	Increasing	Stable	23	23	0.439	0.308	0.0441	95.6	77	8	8	2020-06-16 to 2025-06-24	0.123	-0.491	0.126	87.4	-13
WLF-A1-4	Calcium	Decreasing	Stable	23	23	0.525	-0.47	0.00183	99.8	-119	8	8	2020-06-15 to 2025-06-24	0.354	-0.5	0.108	89.2	-14
WLF-A1-5	Calcium	Increasing	Stable	23	23	0.272	0.337	0.0264	97.4	85	8	8	2020-06-15 to 2025-06-24	0.0665	-0.5	0.108	89.2	-14
WAP-7	Chloride	No Trend	Decreasing	24	24	0.924	0.21	0.157	84.3	58	8	8	2020-06-15 to 2025-06-25	0.631	-0.929	0.00198	99.8	-26
WBW-A1-1	Chloride	No Trend	Stable	23	23	0.845	0.238	0.119	88.1	60	8	8	2020-06-01 to 2025-06-23	0.109	-0.5	0.108	89.2	-14
WLF-A1-1	Chloride	Decreasing	Decreasing	23	23	0.879	-0.921	0.0000000894	100	-233	8	8	2020-06-15 to 2025-06-24	0.342	-0.786	0.00937	99.1	-22
WLF-A1-2	Chloride	No Trend	Increasing	22	22	1.07	-0.152	0.338	66.2	-35	8	8	2020-06-16 to 2025-06-25	0.981	0.786	0.00937	99.1	22
WLF-A1-3	Chloride	No Trend	Decreasing	23	23	1.72	-0.0119	0.958	4.2	-3	8	8	2020-06-16 to 2025-06-24	0.181	-0.714	0.0187	98.1	-20
WLF-A1-4	Chloride	Stable	Stable	23	23	0.867	-0.194	0.205	79.5	-49	8	8	2020-06-15 to 2025-06-24	0.488	-0.429	0.174	82.6	-12
WLF-A1-5	Chloride	No Trend	Stable	23	23	0.266	0.0713	0.653	34.7	18	8	8	2020-06-15 to 2025-06-24	0.175	-0.214	0.536	46.4	-6
WAP-7	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.391	NA	NA	NA	NA	8	1	2020-06-15 to 2025-06-25	0.566	NA	NA	NA	NA
WBW-A1-1	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.216	NA	NA	NA	NA	8	1	2020-06-01 to 2025-06-23	0.331	NA	NA	NA	NA
WLF-A1-1	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2020-06-15 to 2025-06-24	0	NA	NA	NA	NA
WLF-A1-2	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	23	4	0.467	NA	NA	NA	NA	8	0	2020-06-16 to 2025-06-25	0	NA	NA	NA	NA
WLF-A1-3	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.384	NA	NA	NA	NA	8	0	2020-06-16 to 2025-06-24	0	NA	NA	NA	NA
WLF-A1-4	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2020-06-15 to 2025-06-24	0	NA	NA	NA	NA
WLF-A1-5	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.238	NA	NA	NA	NA	8	0	2020-06-15 to 2025-06-24	0	NA	NA	NA	NA
WAP-7	Sulfate	No Trend	Stable	24	24	0.576	0.058	0.71	29	16	8	8	2020-06-15 to 2025-06-25	0.375	-0.214	0.536	46.4	-6
WBW-A1-1	Sulfate	Increasing	No Trend	23	23	0.459	0.451	0.00283	99.7	114	8	8	2020-06-01 to 2025-06-23	0.289	0.0714	0.902	9.8	2
WLF-A1-1	Sulfate	Decreasing	Stable	23	23	0.334	-0.618	0.0000422	100	-156	8	8	2020-06-15 to 2025-06-24	0.412	-0.214	0.536	46.4	-6
WLF-A1-2	Sulfate	No Trend	No Trend	22	22	1.03	-0.0563	0.735	26.5	-13	8	8	2020-06-16 to 2025-06-25	0.634	0.5	0.108	89.2	14
WLF-A1-3	Sulfate	Stable	Stable	23	23	0.424	-0.0317	0.853	14.7	-8	8	8	2020-06-16 to 2025-06-24	0.108	-0.357	0.266	73.4	-10
WLF-A1-4	Sulfate	Decreasing	Stable	23	23	0.636	-0.578	0.000128	100	-146	8	8	2020-06-15 to 2025-06-24	0.208	-0.5	0.108	89.2	-14
WLF-A1-5	Sulfate	No Trend	Stable	23	23	0.212	0.209	0.17	83	53	8	8	2020-06-15 to 2025-06-24	0.147	-0.5	0.108	89.2	-14
WAP-7	Total Dissolved Solids (TDS)	No Trend	Stable	24	24	0.557	0.116	0.442	55.8	32	8	8	2020-06-15 to 2025-06-25	0.397	-0.0714	0.902	9.8	-2
WBW-A1-1	Total Dissolved Solids (TDS)	No Trend	Stable	23	23	0.372	0.15	0.328	67.2	38	8	8	2020-06-01 to 2025-06-23	0.253	-0.286	0.386	61.4	-8
WLF-A1-1	Total Dissolved Solids (TDS)	Decreasing	Stable	23	23	0.309	-0.787	0.00000017	100	-199	8	8	2020-06-15 to 2025-06-24	0.237	-0.429	0.174	82.6	-12
WLF-A1-2	Total Dissolved Solids (TDS)	No Trend	Increasing	23	23	0.647	0.0277	0.874	12.6	7	8	8	2020-06-16 to 2025-06-25	0.734	0.714	0.0187	98.1	20
WLF-A1-3	Total Dissolved Solids (TDS)	No Trend	Stable	23	23	0.302	0.0954	0.543	45.7	24	8	8	2020-06-16 to 2025-06-24	0.122	-0.109	0.803	19.7	-3
WLF-A1-4	Total Dissolved Solids (TDS)	Decreasing	Stable	23	23	0.413	-0.573	0.000143	100	-145	8	8	2020-06-15 to 2025-06-24	0.299	-0.429	0.174	82.6	-12
WLF-A1-5	Total Dissolved Solids (TDS)	Probably Increasing	Stable	23	23	0.16	0.265	0.0813	91.9	67	8	8	2020-06-15 to 2025-06-24	0.107	-0.429	0.174	82.6	-12
WAP-7	pH, Field	No Trend	Stable	24	24	0.0714	0.0727	0.637	36.3	20	8	8	2020-06-15 to 2025-06-25	0.0604	-0.0714	0.902	9.8	-2
WBW-A1-1	pH, Field	No Trend	Stable	23	23	0.0317	0.147	0.341	65.9	37	8	8	2020-06-01 to 2025-06-23	0.039	0	1	0	0
WLF-A1-1	pH, Field	Decreasing	No Trend	23	23	0.0292	-0.533	0.000438	100	-134	8	8	2020-06-15 to 2025-06-24	0.0159	0.0714	0.902	9.8	2
WLF-A1-2	pH, Field	Decreasing	No Trend	23	23	0.136	-0.433	0.00431	99.6	-109	8	8	2020-06-16 to 2025-06-25	0.132	0.5	0.108	89.2	14
WLF-A1-3	pH, Field	No Trend	Stable	24	24	0.0391	0.149	0.321	67.9	41	8	8	2021-03-01 to 2025-06-24	0.0401	-0.214	0.536	46.4	-6
WLF-A1-4	pH, Field	Decreasing	Stable	23	23	0.0453	-0.342	0.0246	97.5	-86	8	8	2020-06-15 to 2025-06-24	0.0495	-0.143	0.711	28.9	-4
WLF-A1-5	pH, Field	No Trend	Probably Increasing	23	23	0.018	0.0201	0.916	8.4	5	8	8	2020-06-15 to 2025-06-24	0.0257	0.571	0.0635	93.7	16

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

Table A-5. Intrawell Prediction Limit Calculations

Location	Constituent	Units	Baseline Distribution [a]	Prediction Interval Calculation	Baseline Data Characterization [a]								Trend (Baseline Data)	Prediction Limits		95% Confidence Parametric Prediction Limit Calculation Details					Non-Parametric Prediction Limit Calculation Details		
					min baseline sample date	max baseline sample	n	n, non-detects	max	min	mean	standard deviation		Prediction Limit Calculation Method	UPL	LPL	degrees of freedom	future samples (M)	confidence level (%) for M sample comparisons	t (percentile of student's t-test)	t quantile	achieved confidence level (%)	false positive rate (%)
WAP-7	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-25	20	NA	4	0.11	1.486	1.369	Increasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	4	NA	19	4	NA	NA	NA	83.3	16.7
WLF-A1-1	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	NA	4.1	0.0763	2.288	1.48	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	4.1	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-2	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	2.28	0.087	0.6508	0.6362	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	2.28	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-3	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	0.48	0.059	0.1401	0.098	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.48	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Boron	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-27	22	NA	1.2	0.14	0.3262	0.2288	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	1.2	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Boron	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	3	1.3	2.079	0.5066	Stable	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	3.703	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	690	53.9	361.2	223.5	Probably Increasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1073	NA	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	746	0.62	422.3	152.7	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	911.8	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	193	0.06	88.16	67.39	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	304.2	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-3	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	26.3	0.0065	15.56	6.937	Increasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	37.79	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-4	Calcium	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-27	22	NA	212	0.13	98.11	49.76	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	257.6	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-5	Calcium	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	NA	321	0.21	245	68.29	Increasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	321	NA	21	4	NA	NA	NA	84.6	15.4
WAP-7	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-01-31	2025-02-25	23	NA	123	4.67	38.77	35.27	Probably Increasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	123	NA	22	4	NA	NA	NA	85.2	14.8
WLF-A1-1	Chloride	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	270	9.88	97.03	81.98	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	359.8	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	21	NA	211	2.32	48.08	53.67	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	211	NA	20	4	NA	NA	NA	84	16
WLF-A1-3	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	59.3	2.81	6.822	11.76	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	59.3	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Chloride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-27	22	NA	41.3	3.3	9.167	7.85	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	41.3	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Chloride	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	183	66.7	133.8	36.42	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	250.5	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-25	21	20	0.15	0.1	0.1024	0.01091	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.15	NA	20	4	NA	NA	NA	84	16
WLF-A1-1	Fluoride	mg/L	Not normal (all non-detects)	Non-Parametric	2018-06-13	2025-02-26	22	22	0.1	0.1	0.1	0	All tied values (p is NaN)	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.1	NA	21	4	NA	NA	NA	84.6	15.4

Note:
[a] 'Baseline' data refer to the entire statistical dataset, except the most recent data point. Baseline datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
Prediction limits calculated using simple replacement with the reporting limit for non-detect results.
UPL = Upper Prediction Limit. LPL = Lower Prediction Limit, calculated for pH, Field only.

Location	Constituent	Units	Baseline Data Characterization [a]										Prediction Limits		95% Confidence Parametric Prediction Limit Calculation Details					Non-Parametric Prediction Limit Calculation Details			
			Baseline Distribution [a]	Prediction Interval Calculation	min baseline sample date	max baseline sample date	n	n, non-detects	max	min	mean	standard deviation	Trend (Baseline Data)	Prediction Limit Calculation Method	UPL	LPL	degrees of freedom	future samples (M)	confidence level (%) for M sample comparisons	t (percentile of student's t-test)	t quantile	achieved confidence level (%)	false positive rate (%)
WLF-A1-2	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	18	0.14	0.1	0.1045	0.01101	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.14	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-3	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	21	0.15	0.1	0.1023	0.01066	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.15	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Fluoride	mg/L	Not normal (all non-detects)	Non-Parametric	2018-06-12	2025-02-27	22	22	0.1	0.1	0.1	0	All tied values (p is NaN).	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.1	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Fluoride	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	21	0.11	0.1	0.1005	0.002132	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	0.11	NA	21	4	NA	NA	NA	84.6	15.4
WAP-7	Sulfate	mg/L	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	1440	169	785.5	455	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	2235	NA	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	Sulfate	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	1070	159	784.6	239.8	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1553	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Sulfate	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	21	NA	1040	41.5	209.1	223.7	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	1040	NA	20	4	NA	NA	NA	84	16
WLF-A1-3	Sulfate	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	160	40.2	73.9	31.3	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	160	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Sulfate	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-27	22	NA	366	53.1	122.4	75.92	Decreasing	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	366	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-5	Sulfate	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	575	246	399.8	86.46	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	676.9	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	2531	308.8	1344	755.5	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	3751	NA	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	2480	895	1701	489.7	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	3270	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	890	82.5	415.1	269.3	Stable	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1278	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	Not normal at 99% confidence	Non-Parametric	2018-06-12	2025-02-26	22	NA	241.2	77.5	109.7	33.7	No Trend	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	241.2	NA	21	4	NA	NA	NA	84.6	15.4
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-12	2025-02-27	22	NA	755	187.5	386.8	151.9	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	873.9	NA	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	1456	707.5	1118	183.3	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	1706	NA	21	4	99.75	0.9975	3.135	NA	NA
WAP-7	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-01-31	2025-02-25	23	NA	6.69	5.36	6.056	0.4424	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	7.466	4.647	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-1	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-13	2025-02-26	22	NA	6.47	5.79	6.253	0.186	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	6.849	5.657	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-2	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	22	NA	6.67	4.45	5.627	0.7851	Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	8.144	3.11	21	4	99.75	0.9975	3.135	NA	NA
WLF-A1-3	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-12	2025-02-26	23	NA	4.58	3.91	4.246	0.1621	No Trend	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	4.763	3.73	22	4	99.75	0.9975	3.119	NA	NA
WLF-A1-4	pH, Field	pH units	Normal at 99% confidence	Parametric	2018-06-12	2025-02-27	22	NA	6.74	5.89	6.314	0.2349	Probably Decreasing	Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.2.1)	7.067	5.561	21	4	99.75	0.9975	3.135	NA	NA

Note:
[a] 'Baseline' data refer to the entire statistical dataset, except the most recent data point. Baseline datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
Prediction limits calculated using simple replacement with the reporting limit for non-detect results.
UPL = Upper Prediction Limit. LPL = Lower Prediction Limit, calculated for pH, Field only.

Location	Constituent	Units	Baseline Distribution [a]	Baseline Data Characterization [a]										Prediction Limits			95% Confidence Parametric Prediction Limit Calculation Details					Non-Parametric Prediction Limit Calculation Details	
				Prediction Interval Calculation	min baseline sample date	max baseline sample date	n	n, non-detects	max	min	mean	standard deviation	Trend (Baseline Data)	Prediction Limit Calculation Method	UPL	LPL	degrees of freedom	future samples (M)	confidence level (%) for M sample comparisons	t (percentile of student's t-test)	t quantile	achieved confidence level (%)	false positive rate (%)
WLF-A1-5	pH, Field	pH units	Not normal at 99% confidence	Non-Parametric	2018-06-13	2025-02-26	22	NA	7.07	6.46	6.885	0.1255	Stable	Non-Parametric Prediction Limit for M Future Values (USEPA, 2009 - Chapter 18.3.1)	7.07	6.46	21	4	NA	NA	NA	84.6	15.4

Note:

[a] 'Baseline' data refer to the entire statistical dataset, except the most recent data point. Baseline datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

Prediction limits calculated using simple replacement with the reporting limit for non-detect results.

UPL = Upper Prediction Limit. LPL = Lower Prediction Limit, calculated for pH, Field only.

Table A-6. Intrawell Prediction Limit Comparison & Statistically Significant Increases

Location	Constituent	Units	Sample Date	Sample Result	Upper Prediction Limit (UPL)	Lower Prediction Limit (LPL)	Intrawell SSI
WLF-A1-4	pH, Field	pH units	2025-06-24	5.51	7.07	5.56	Yes (low)
WLF-A1-2	Boron	mg/L	2025-06-25	2.72	2.28	NA	Yes
WAP-7	Boron	mg/L	2025-06-25	0.49	4	NA	No
WLF-A1-1	Boron	mg/L	2025-06-24	0.415	4.1	NA	No
WLF-A1-3	Boron	mg/L	2025-06-24	0.0794	0.48	NA	No
WLF-A1-4	Boron	mg/L	2025-06-24	0.108	1.2	NA	No
WLF-A1-5	Boron	mg/L	2025-06-24	2.2	3.7	NA	No
WAP-7	Calcium	mg/L	2025-06-25	290	1073	NA	No
WLF-A1-1	Calcium	mg/L	2025-06-24	222	911.8	NA	No
WLF-A1-2	Calcium	mg/L	2025-06-25	185	304.2	NA	No
WLF-A1-3	Calcium	mg/L	2025-06-24	13.6	37.79	NA	No
WLF-A1-4	Calcium	mg/L	2025-06-24	38.4	257.6	NA	No
WLF-A1-5	Calcium	mg/L	2025-06-24	272	321	NA	No
WAP-7	Chloride	mg/L	2025-06-25	13.8	123	NA	No
WLF-A1-1	Chloride	mg/L	2025-06-24	11.5	360	NA	No
WLF-A1-2	Chloride	mg/L	2025-06-25	142	211	NA	No
WLF-A1-3	Chloride	mg/L	2025-06-24	3.46	59.3	NA	No
WLF-A1-4	Chloride	mg/L	2025-06-24	3.93	41.3	NA	No
WLF-A1-5	Chloride	mg/L	2025-06-24	146	251	NA	No
WAP-7	Fluoride	mg/L	2025-06-25	< 0.1	0.15	NA	No
WLF-A1-1	Fluoride	mg/L	2025-06-24	< 0.1	0.1	NA	No
WLF-A1-2	Fluoride	mg/L	2025-06-25	< 0.1	0.14	NA	No
WLF-A1-3	Fluoride	mg/L	2025-06-24	< 0.1	0.15	NA	No
WLF-A1-4	Fluoride	mg/L	2025-06-24	< 0.1	0.1	NA	No
WLF-A1-5	Fluoride	mg/L	2025-06-24	< 0.1	0.11	NA	No
WAP-7	Sulfate	mg/L	2025-06-25	574	2235	NA	No
WLF-A1-1	Sulfate	mg/L	2025-06-24	301	1553	NA	No
WLF-A1-2	Sulfate	mg/L	2025-06-25	304	1040	NA	No
WLF-A1-3	Sulfate	mg/L	2025-06-24	51.9	160	NA	No
WLF-A1-4	Sulfate	mg/L	2025-06-24	47.1	366	NA	No
WLF-A1-5	Sulfate	mg/L	2025-06-24	383	676.9	NA	No
WAP-7	Total Dissolved Solids (TDS)	mg/L	2025-06-25	1050	3751	NA	No
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	2025-06-24	805	3270	NA	No
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	2025-06-25	902.5	1278	NA	No
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	2025-06-24	97.5	241.2	NA	No
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	2025-06-24	162.5	873.9	NA	No
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	2025-06-24	1205	1706	NA	No
WAP-7	pH, Field	pH units	2025-06-25	6.05	7.47	4.65	No
WLF-A1-1	pH, Field	pH units	2025-06-24	6.16	6.85	5.66	No
WLF-A1-2	pH, Field	pH units	2025-06-25	5.88	8.14	3.11	No
WLF-A1-3	pH, Field	pH units	2025-06-24	4.01	4.76	3.73	No
WLF-A1-5	pH, Field	pH units	2025-06-24	6.97	7.07	6.46	No

Statistically Significant Increases (SSIs) include any sample results that exceed prediction limits. In other words, an SSI is any sample concentration greater than the UPL, or any sample concentration less than the LCL for pH, Field. < indicates that the constituent was not detected above the method detection limit, the reporting detection limit is shown following the symbol.

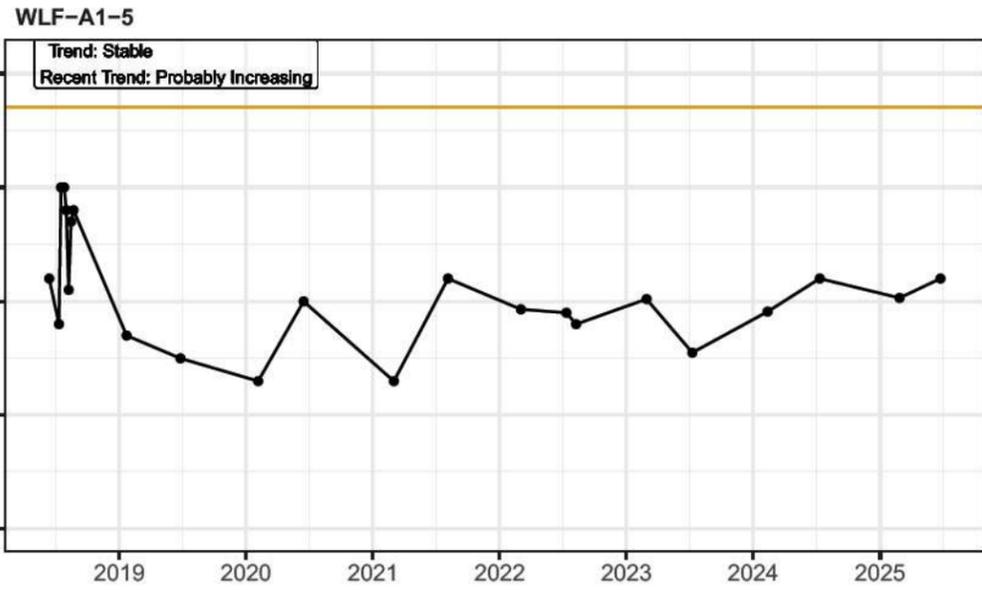
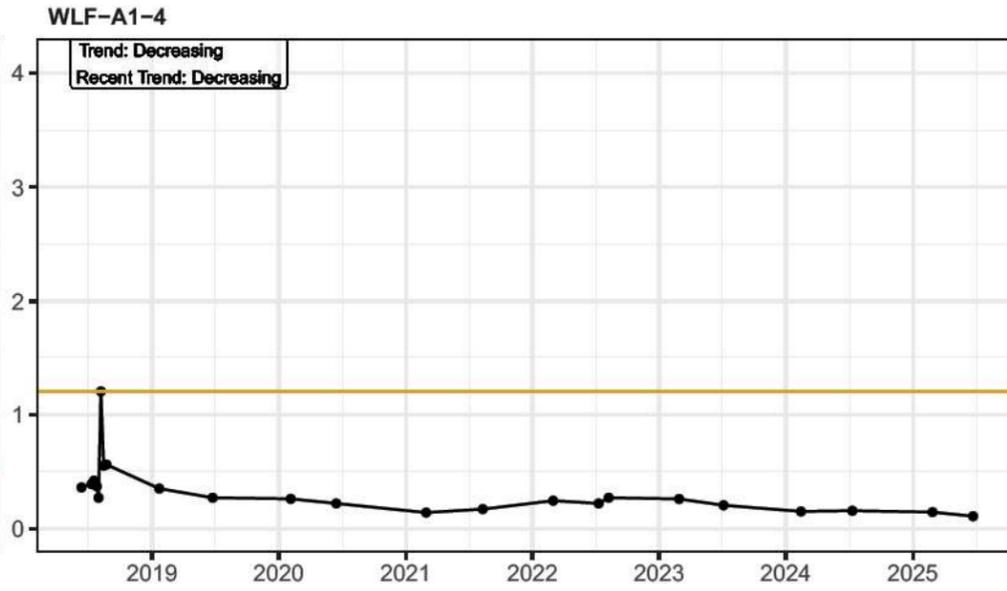
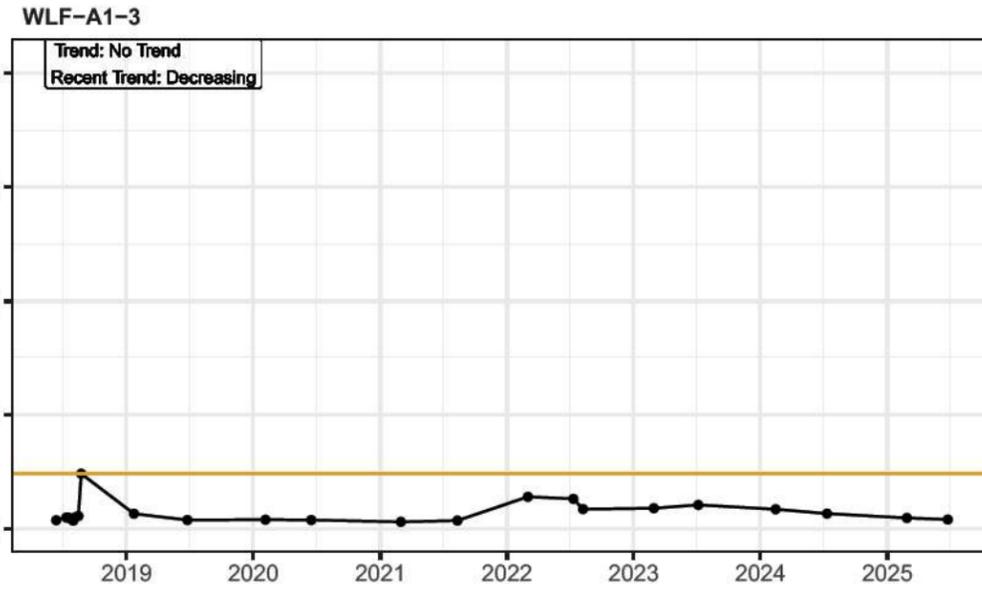
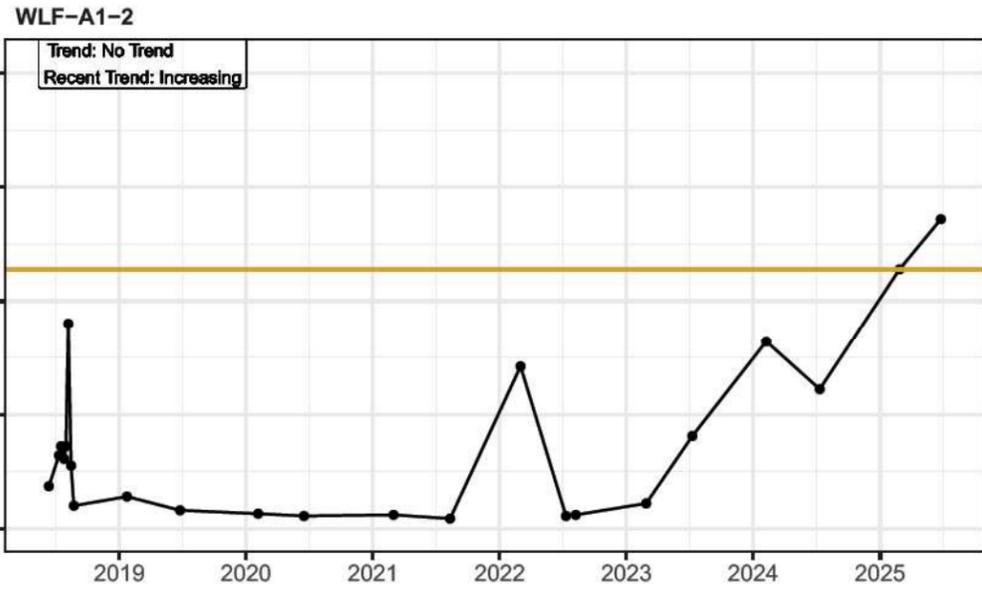
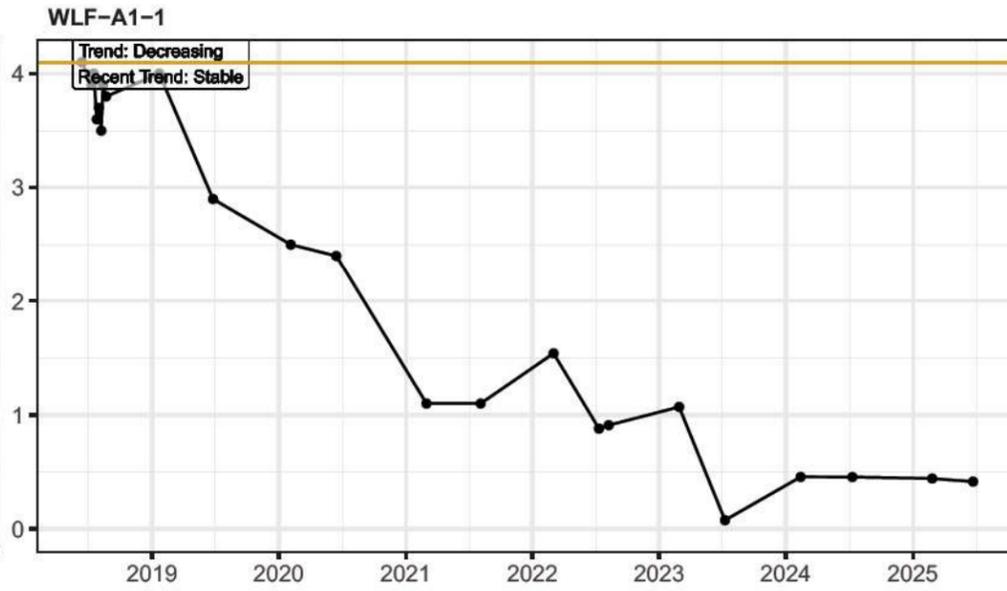
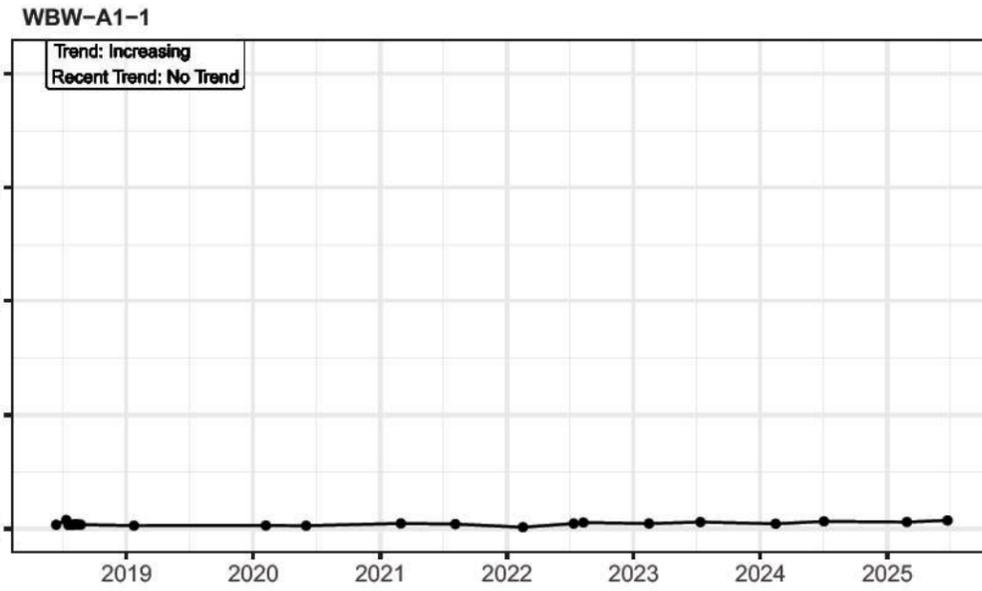
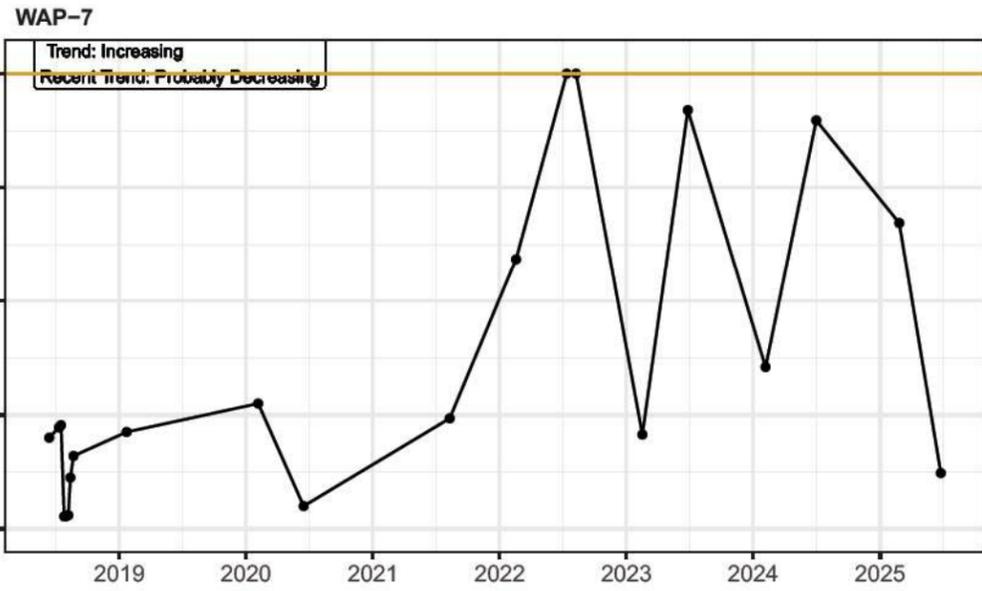
Table A-6. Intrawell Prediction Limit Comparison & Statistically Significant Increases

Location	Constituent	Units	Sample Date	Sample Result	Upper Prediction Limit (UPL)	Lower Prediction Limit (LPL)	Intrawell SSI
WLF-A1-4	pH, Field	pH units	2025-06-24	5.51	7.07	5.56	Yes (low)
WLF-A1-2	Boron	mg/L	2025-06-25	2.72	2.28	NA	Yes
WAP-7	Boron	mg/L	2025-06-25	0.49	4	NA	No
WLF-A1-1	Boron	mg/L	2025-06-24	0.415	4.1	NA	No
WLF-A1-3	Boron	mg/L	2025-06-24	0.0794	0.48	NA	No
WLF-A1-4	Boron	mg/L	2025-06-24	0.108	1.2	NA	No
WLF-A1-5	Boron	mg/L	2025-06-24	2.2	3.7	NA	No
WAP-7	Calcium	mg/L	2025-06-25	290	1073	NA	No
WLF-A1-1	Calcium	mg/L	2025-06-24	222	911.8	NA	No
WLF-A1-2	Calcium	mg/L	2025-06-25	185	304.2	NA	No
WLF-A1-3	Calcium	mg/L	2025-06-24	13.6	37.79	NA	No
WLF-A1-4	Calcium	mg/L	2025-06-24	38.4	257.6	NA	No
WLF-A1-5	Calcium	mg/L	2025-06-24	272	321	NA	No
WAP-7	Chloride	mg/L	2025-06-25	13.8	123	NA	No
WLF-A1-1	Chloride	mg/L	2025-06-24	11.5	360	NA	No
WLF-A1-2	Chloride	mg/L	2025-06-25	142	211	NA	No
WLF-A1-3	Chloride	mg/L	2025-06-24	3.46	59.3	NA	No
WLF-A1-4	Chloride	mg/L	2025-06-24	3.93	41.3	NA	No
WLF-A1-5	Chloride	mg/L	2025-06-24	146	251	NA	No
WAP-7	Fluoride	mg/L	2025-06-25	< 0.1	0.15	NA	No
WLF-A1-1	Fluoride	mg/L	2025-06-24	< 0.1	0.1	NA	No
WLF-A1-2	Fluoride	mg/L	2025-06-25	< 0.1	0.14	NA	No
WLF-A1-3	Fluoride	mg/L	2025-06-24	< 0.1	0.15	NA	No
WLF-A1-4	Fluoride	mg/L	2025-06-24	< 0.1	0.1	NA	No
WLF-A1-5	Fluoride	mg/L	2025-06-24	< 0.1	0.11	NA	No
WAP-7	Sulfate	mg/L	2025-06-25	574	2235	NA	No
WLF-A1-1	Sulfate	mg/L	2025-06-24	301	1553	NA	No
WLF-A1-2	Sulfate	mg/L	2025-06-25	304	1040	NA	No
WLF-A1-3	Sulfate	mg/L	2025-06-24	51.9	160	NA	No
WLF-A1-4	Sulfate	mg/L	2025-06-24	47.1	366	NA	No
WLF-A1-5	Sulfate	mg/L	2025-06-24	383	676.9	NA	No
WAP-7	Total Dissolved Solids (TDS)	mg/L	2025-06-25	1050	3751	NA	No
WLF-A1-1	Total Dissolved Solids (TDS)	mg/L	2025-06-24	805	3270	NA	No
WLF-A1-2	Total Dissolved Solids (TDS)	mg/L	2025-06-25	902.5	1278	NA	No
WLF-A1-3	Total Dissolved Solids (TDS)	mg/L	2025-06-24	97.5	241.2	NA	No
WLF-A1-4	Total Dissolved Solids (TDS)	mg/L	2025-06-24	162.5	873.9	NA	No
WLF-A1-5	Total Dissolved Solids (TDS)	mg/L	2025-06-24	1205	1706	NA	No
WAP-7	pH, Field	pH units	2025-06-25	6.05	7.47	4.65	No
WLF-A1-1	pH, Field	pH units	2025-06-24	6.16	6.85	5.66	No
WLF-A1-2	pH, Field	pH units	2025-06-25	5.88	8.14	3.11	No
WLF-A1-3	pH, Field	pH units	2025-06-24	4.01	4.76	3.73	No
WLF-A1-5	pH, Field	pH units	2025-06-24	6.97	7.07	6.46	No

Statistically Significant Increases (SSIs) include any sample results that exceed prediction limits. In other words, an SSI is any sample concentration greater than the UPL, or any sample concentration less than the LCL for pH, Field.

< indicates that the constituent was not detected above the method detection limit, the reporting detection limit is shown following the symbol.

Trend Plots for Boron



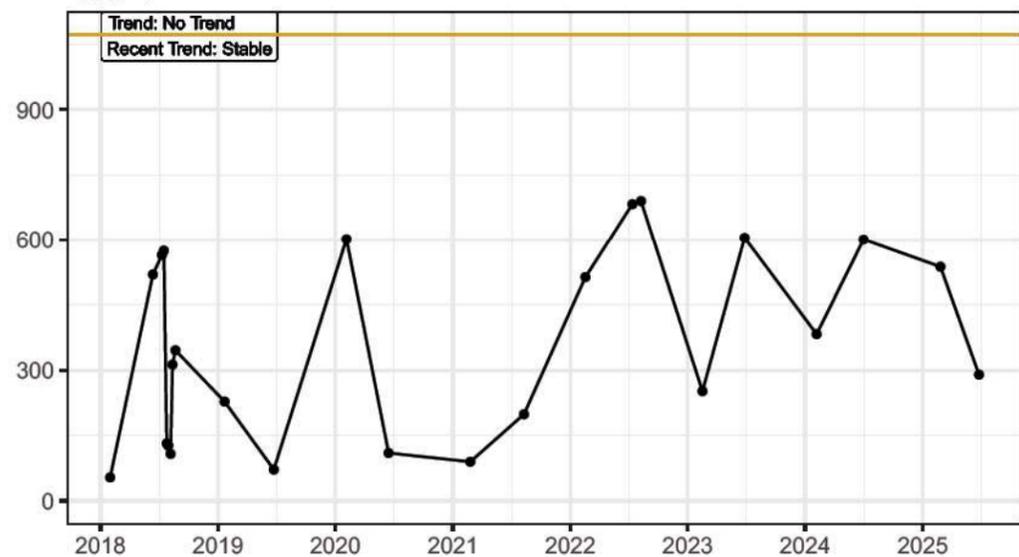
Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

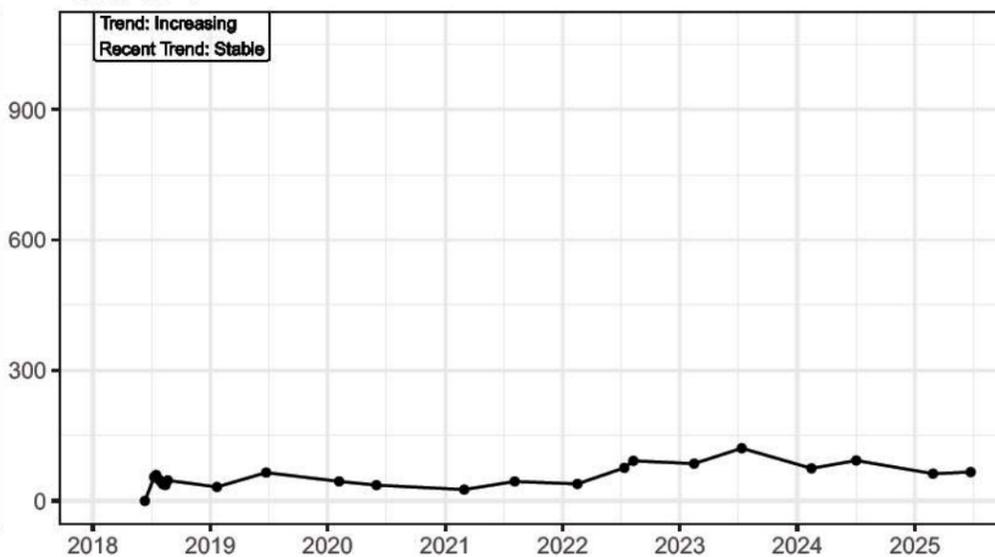
Notes: *Recent data are considered the 8 most recent data points collected for each well/analyte. Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Plots for Calcium

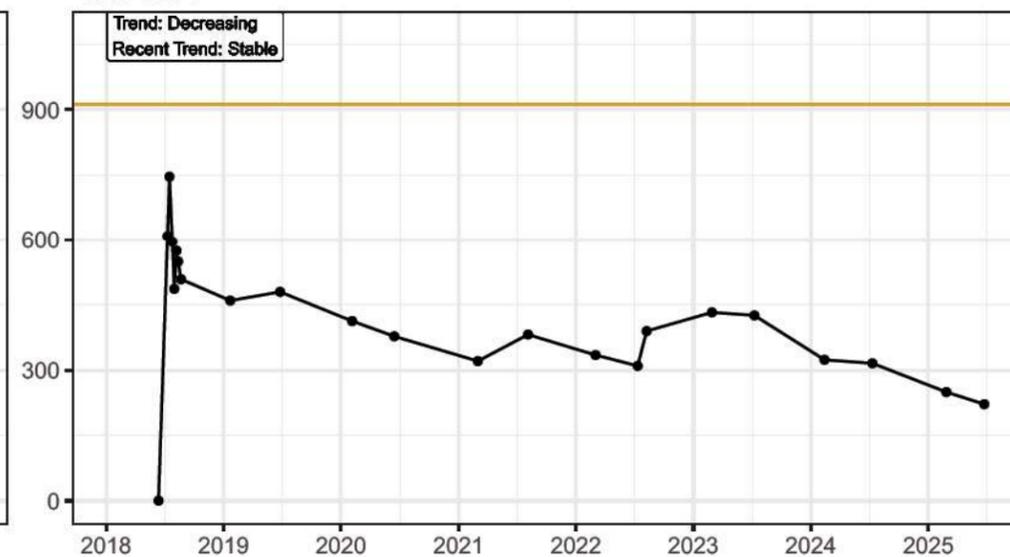
WAP-7



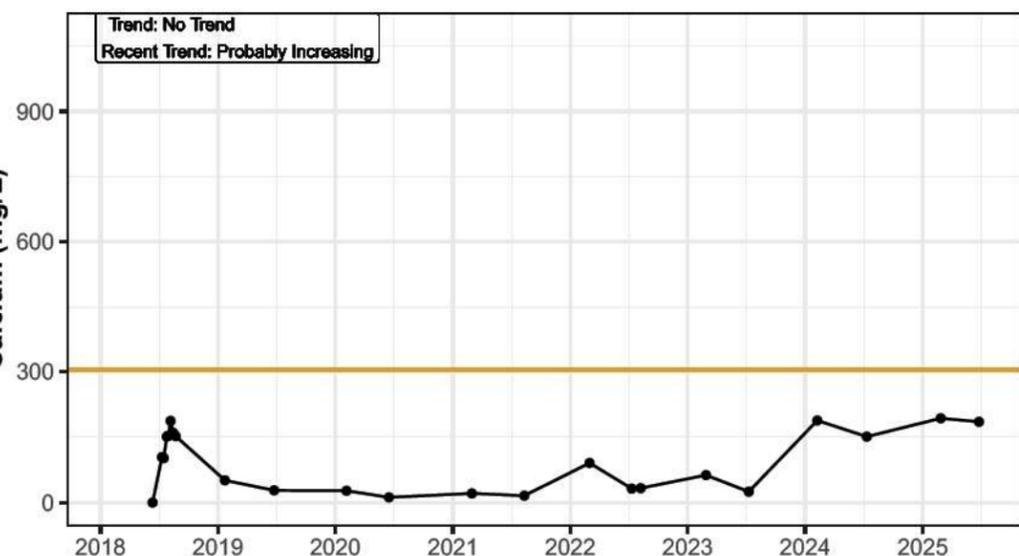
WBW-A1-1



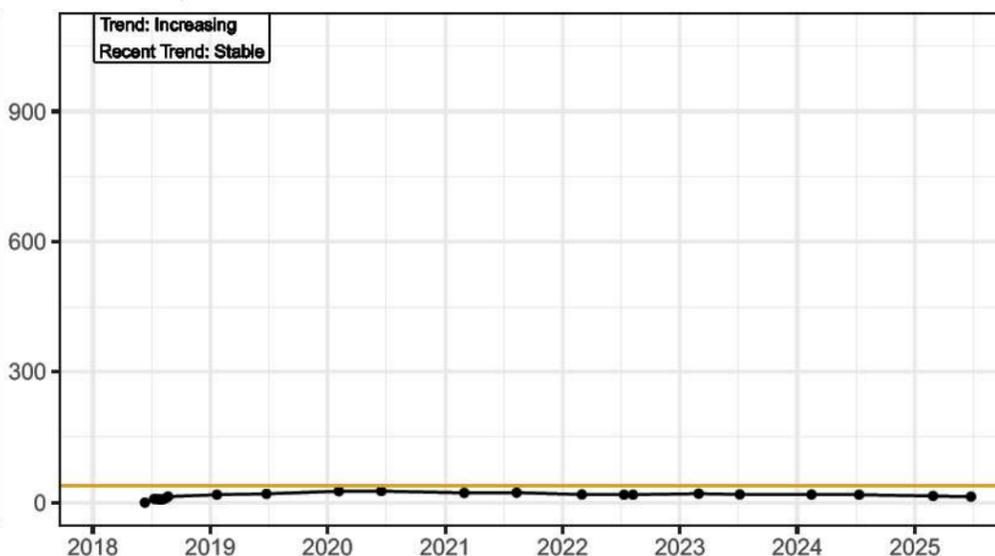
WLF-A1-1



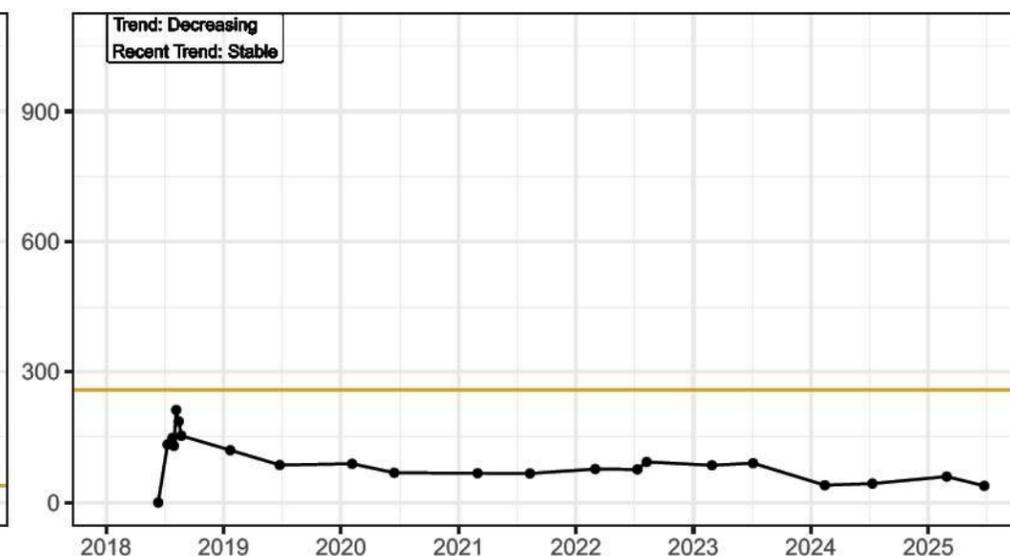
WLF-A1-2



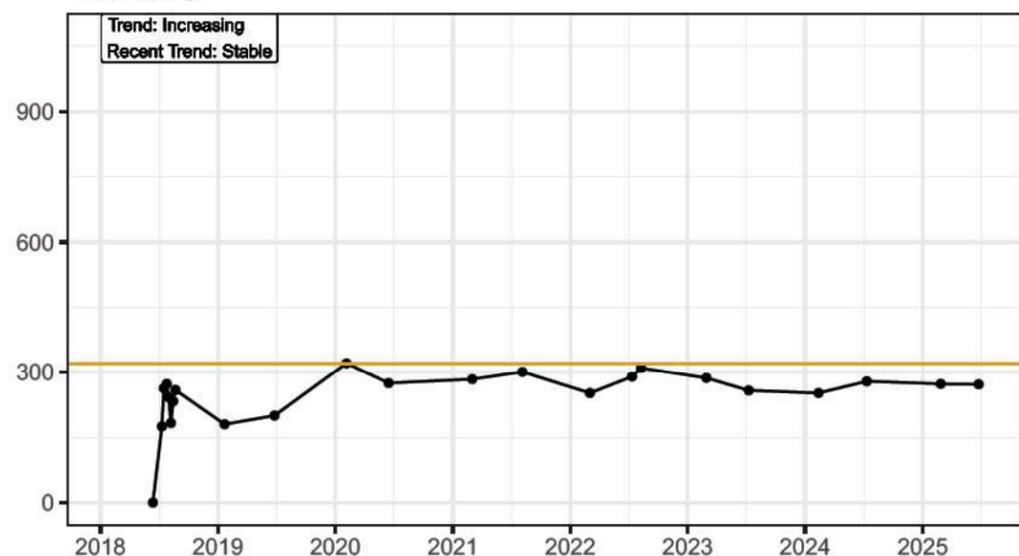
WLF-A1-3



WLF-A1-4



WLF-A1-5

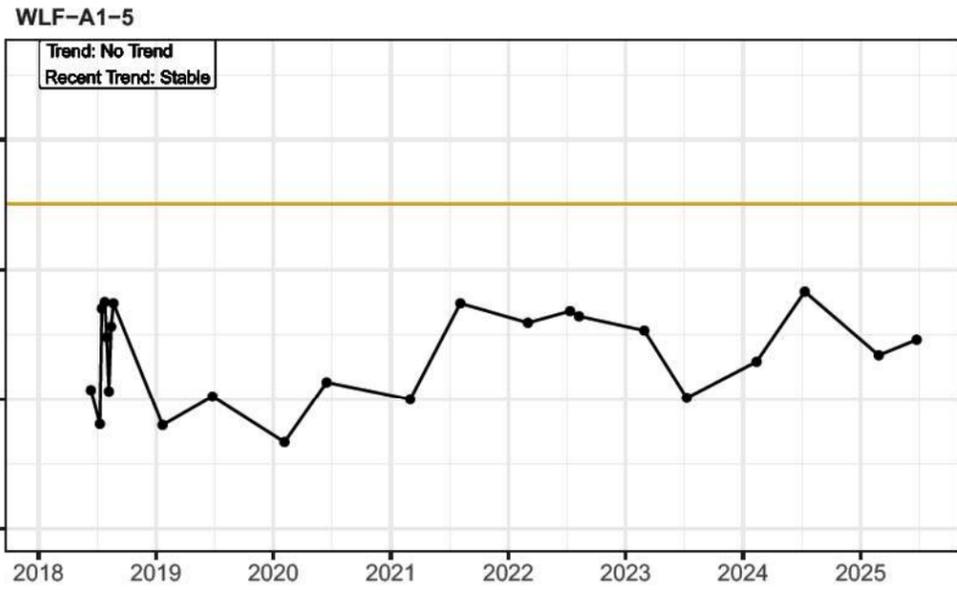
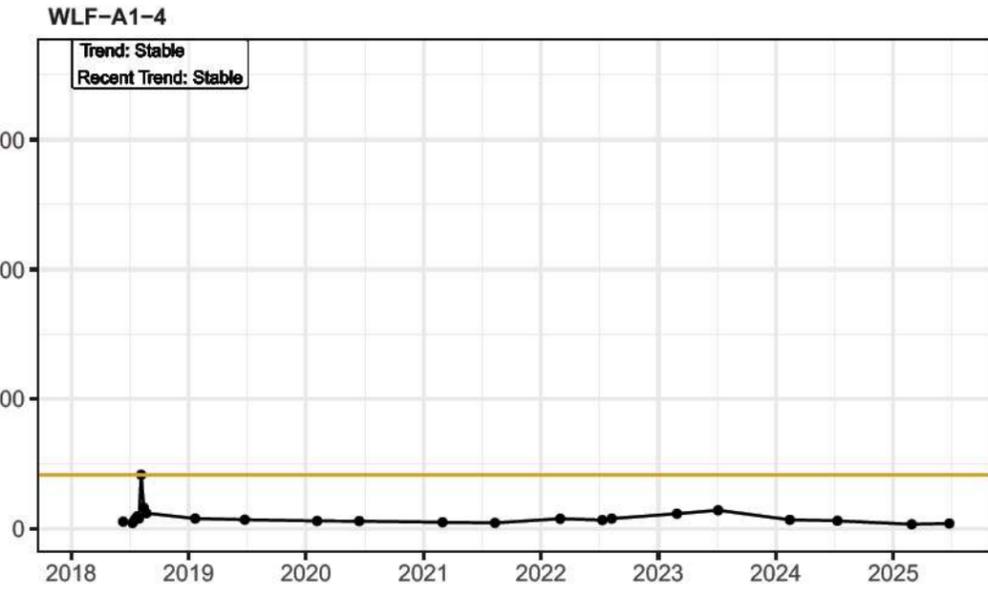
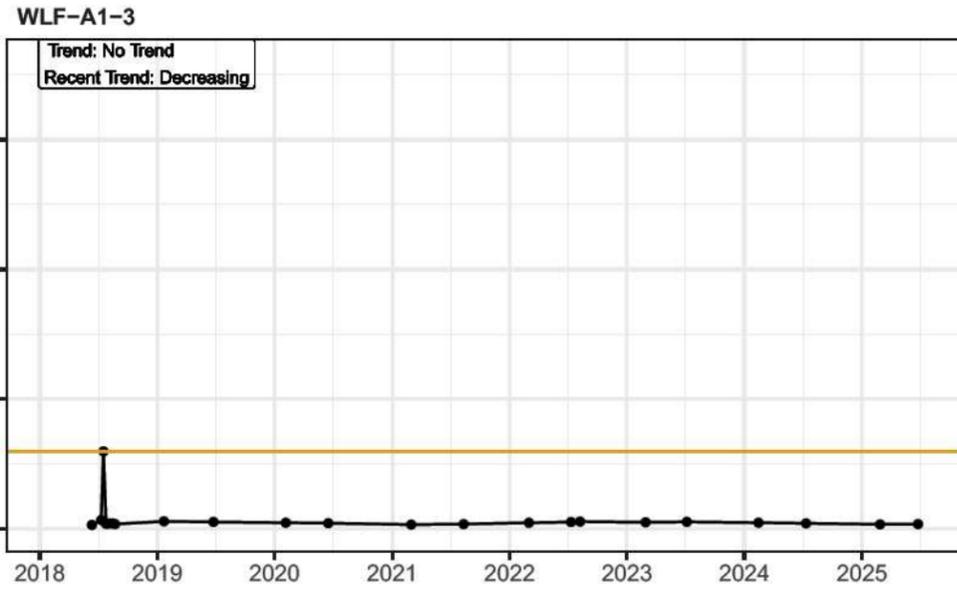
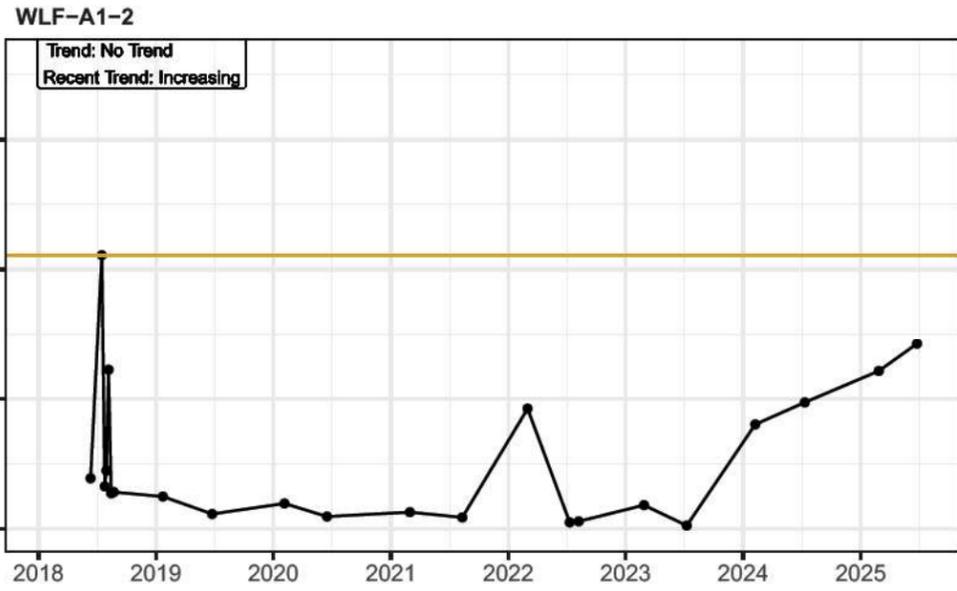
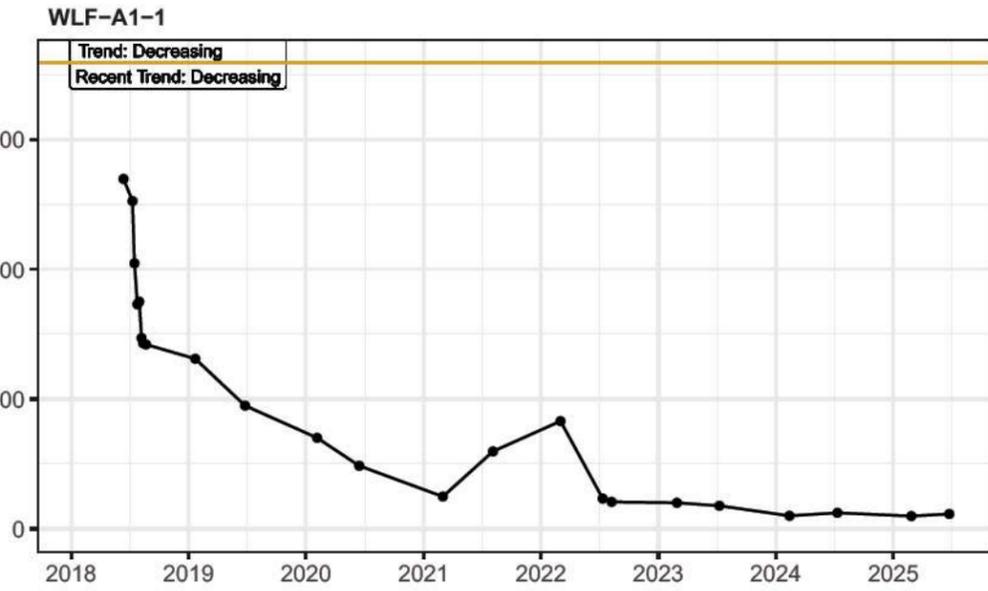
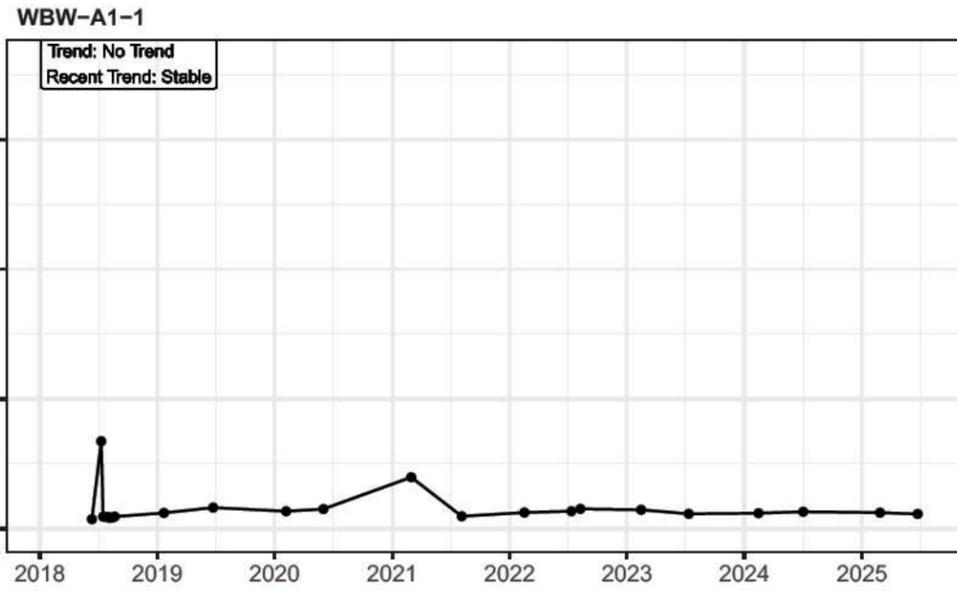
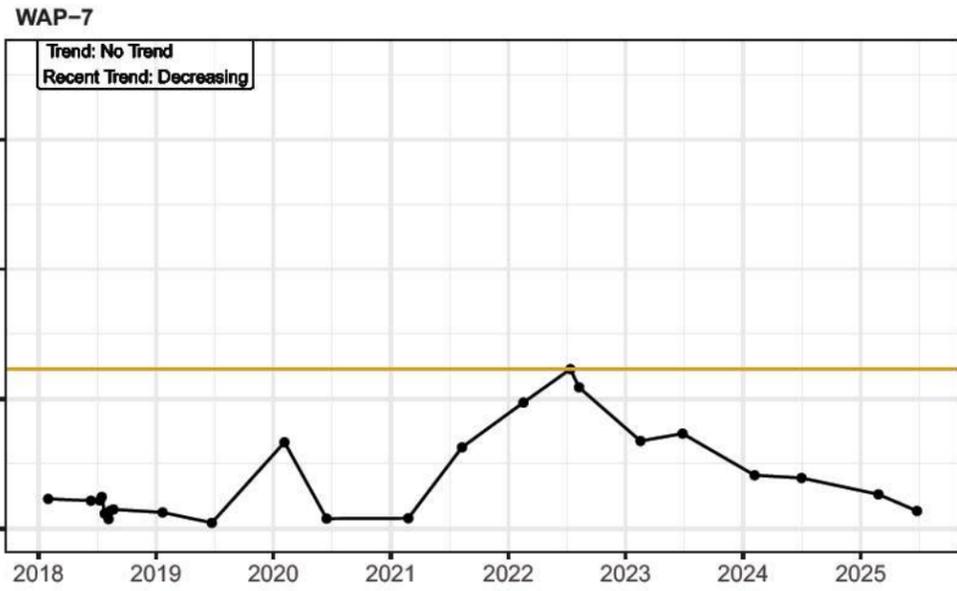


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for Chloride

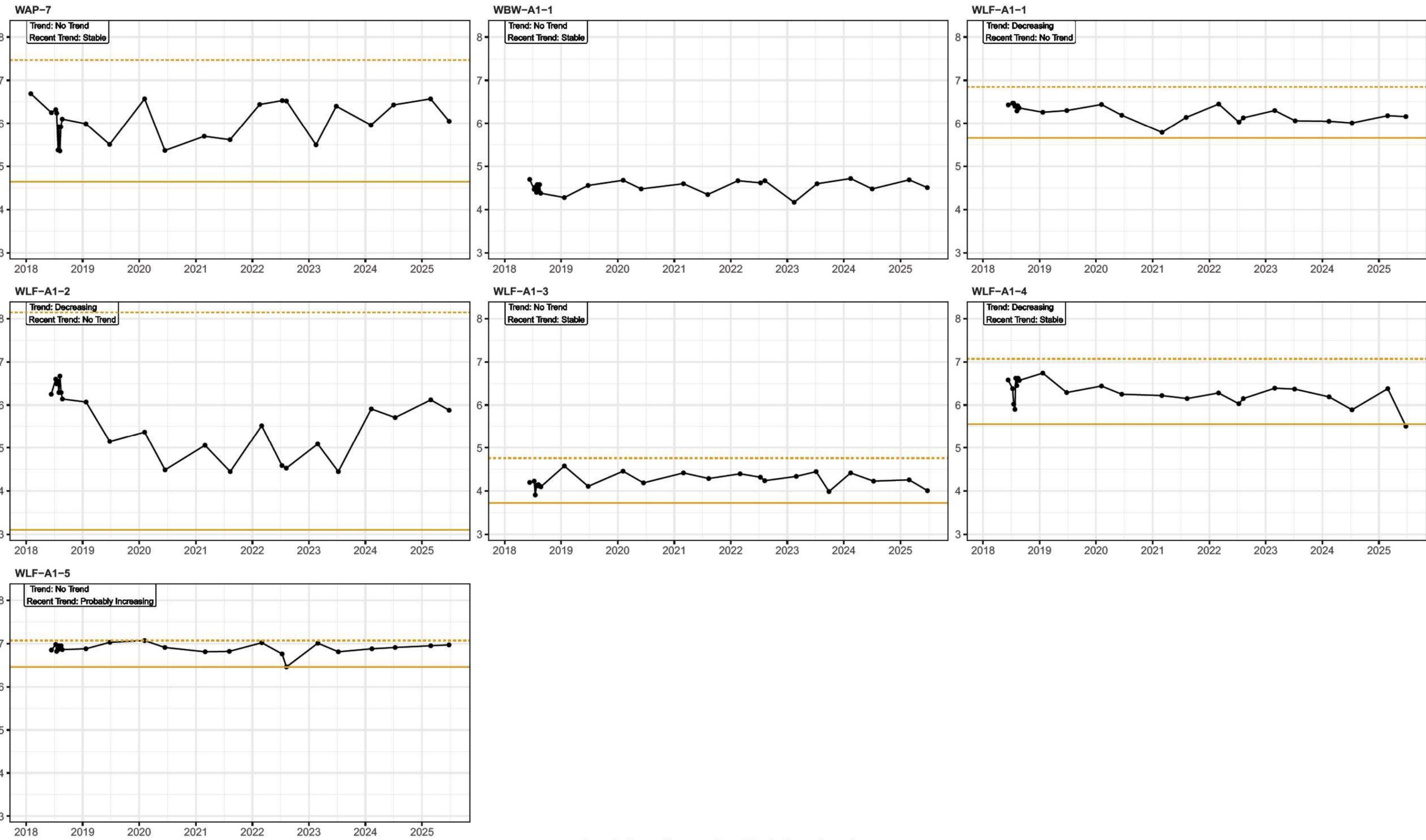


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for pH, Field



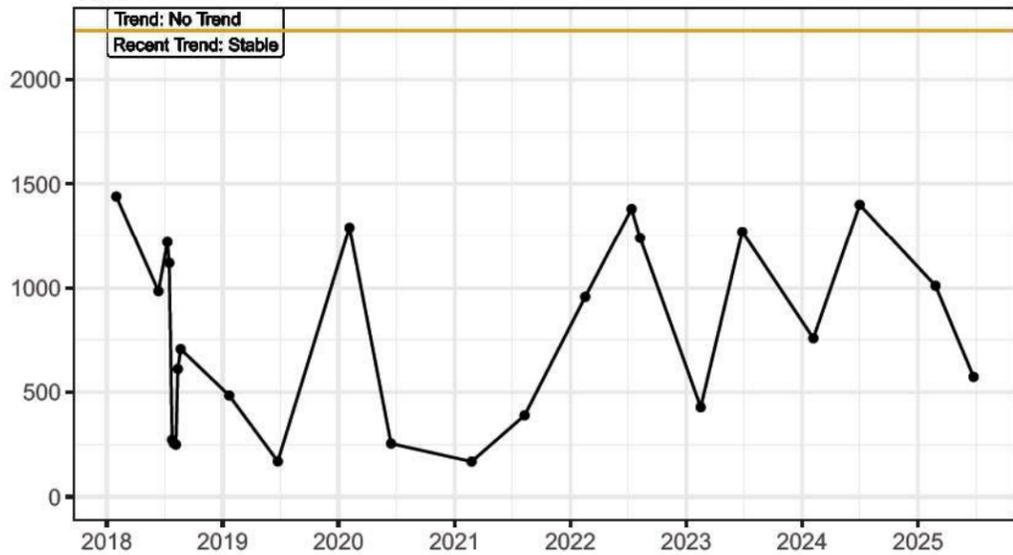
Sample Date (January 1st of the indicated year)

linetype — Lower Prediction Limit - - - Upper Prediction Limit Detection Status: ● Detect

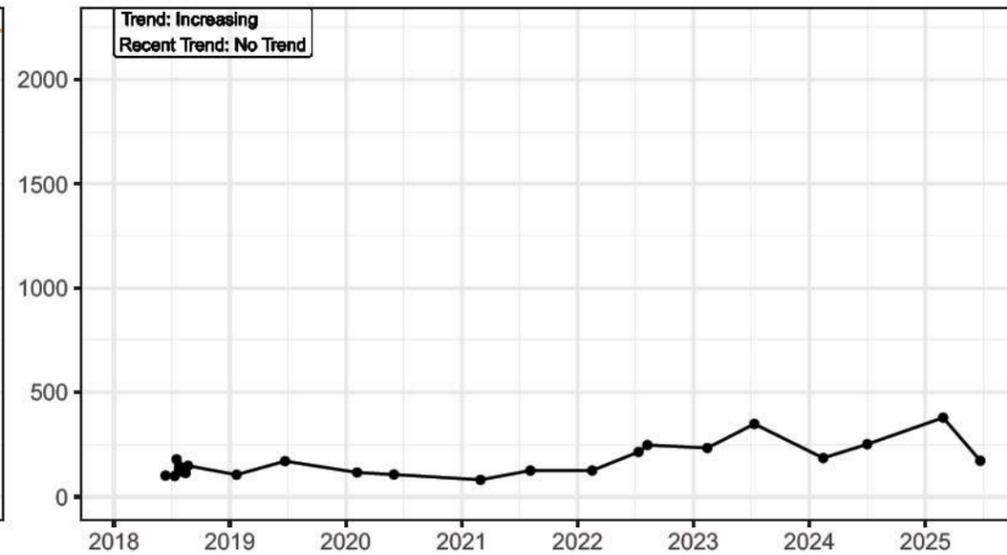
Notes: *Recent data are considered the 8 most recent data points collected for each well/analyte. Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Trend Plots for Sulfate

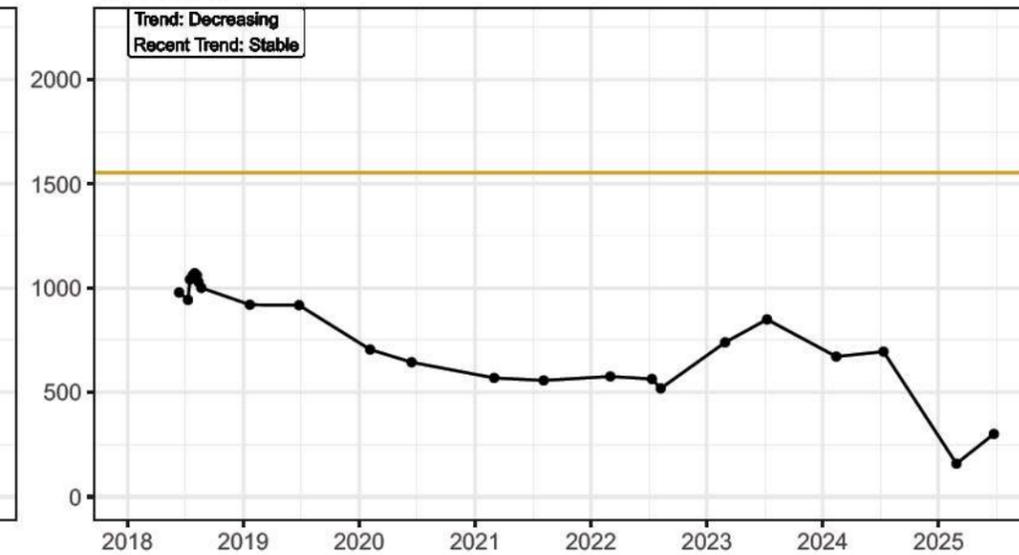
WAP-7



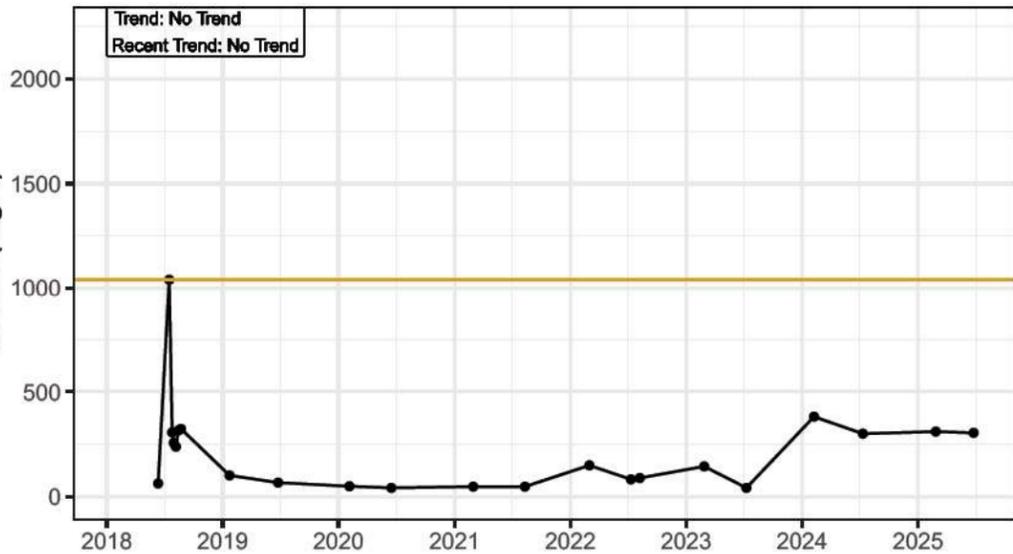
WBW-A1-1



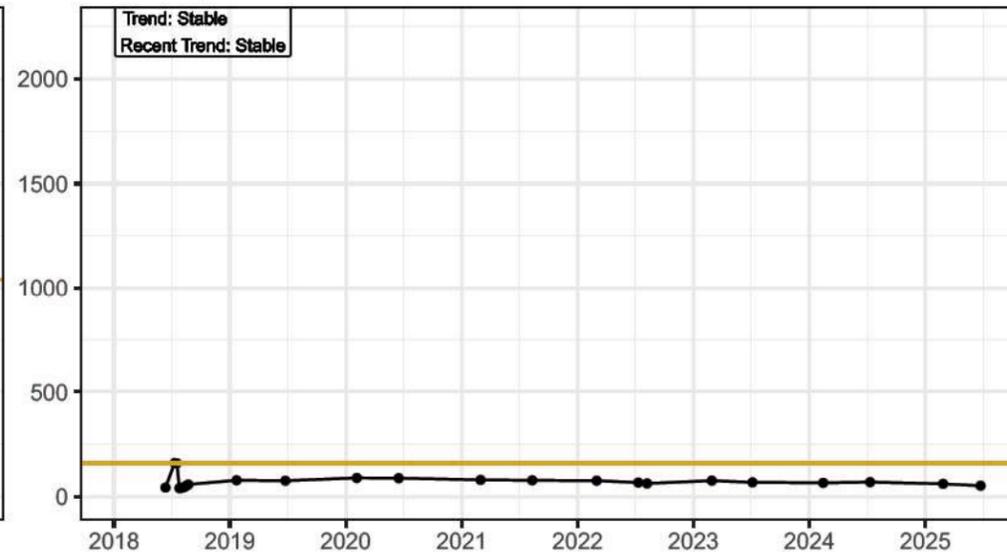
WLF-A1-1



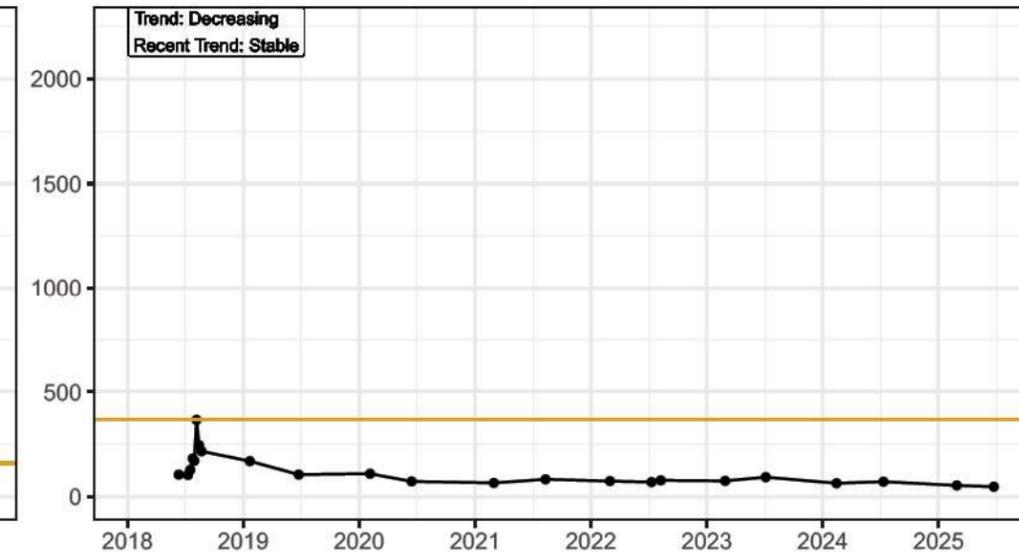
WLF-A1-2



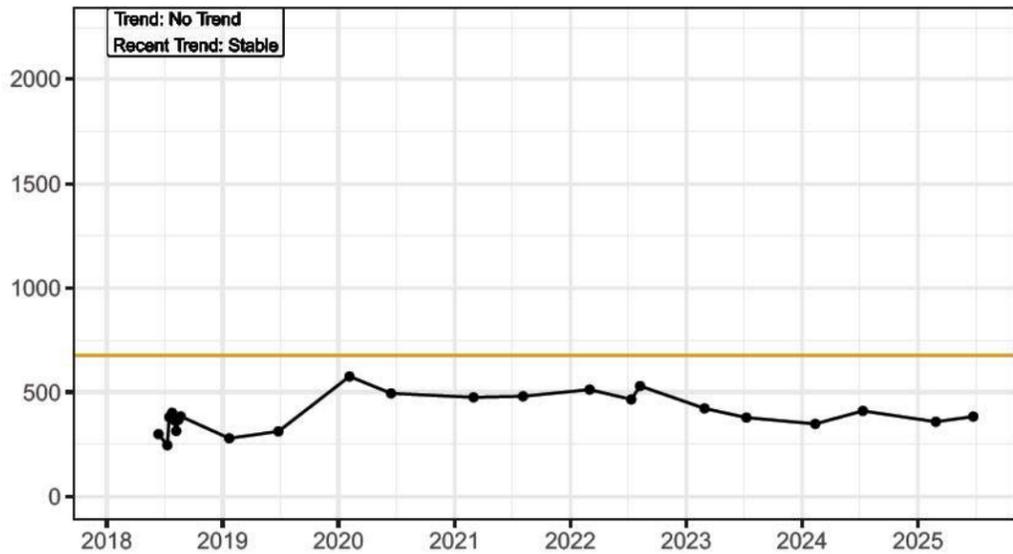
WLF-A1-3



WLF-A1-4



WLF-A1-5

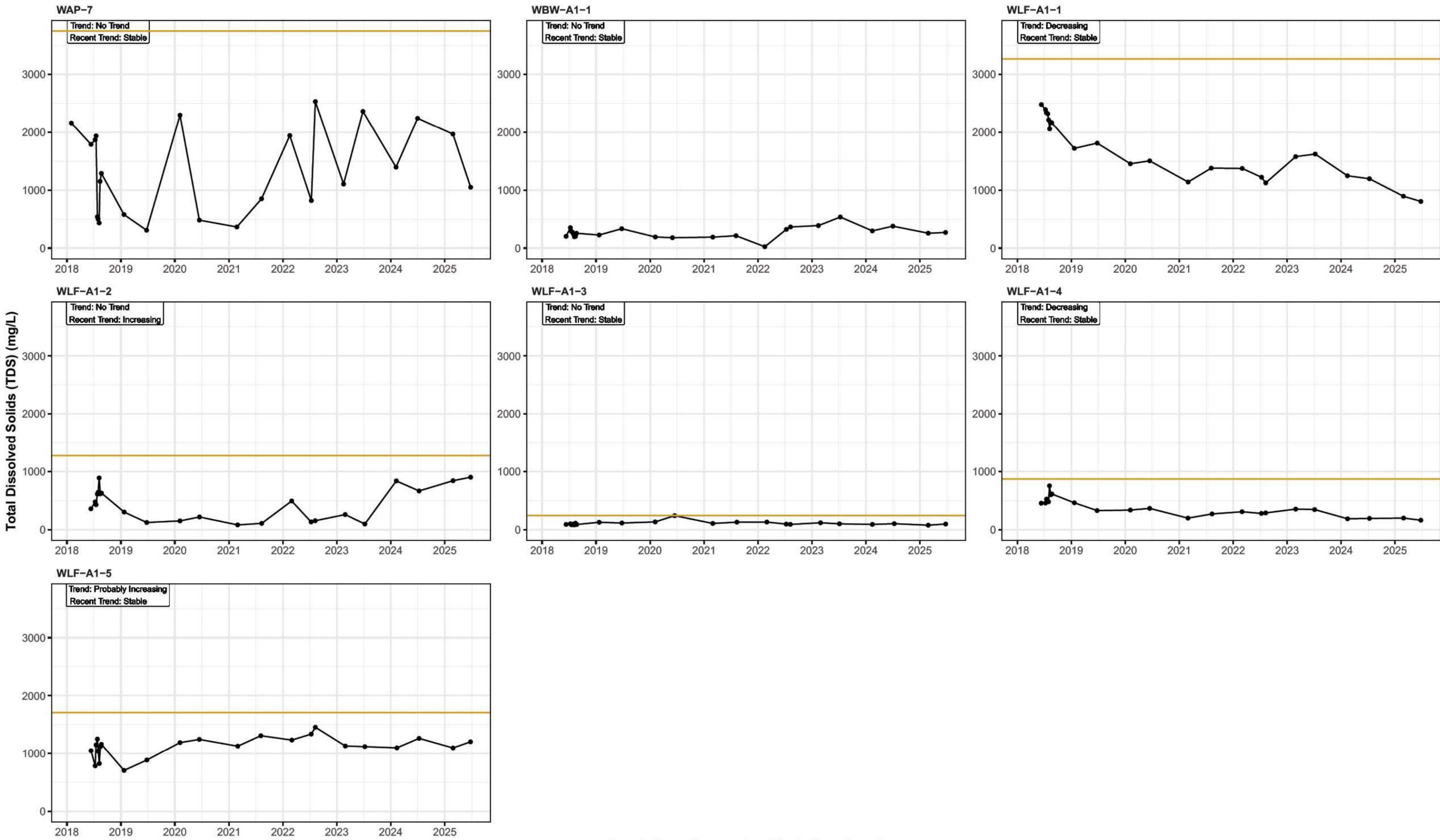


Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 Plots for Total Dissolved Solids (TDS)



Sample Date (January 1st of the indicated year)

— Upper Prediction Limit Detection Status: ● Detect

Notes: *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 # AG25165 Location: WGS well WBW A1 Date: 02/26/2025 Sample Collector: BWM/SB

Loc. Code WBW-A1-1 Time: 09:38

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	40.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	62.5	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	0.71	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	3020	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	60.5	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	0.103	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	12.5	mg/L	03/02/2025	GEL	EPA 300.0
Sulfate	379	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	257.5	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	0.832	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.998	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.83	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	4.69	SU	02/26/2025	BWM/SB	

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: 4/28/25
 Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25166 Location: WGS well WLF A1-1 Date: 02/26/2025 Sample Collector: BWM/SB

Loc. Code WLF-A1-1 Time: 11:55

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	32.1	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	250	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	17600	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	442	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	9.88	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	159	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	895.0	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	0.878	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.474	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.35	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.18	SU	02/26/2025	BWM/SB	

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: 4/28/25
Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed



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Moncks Corner, SC 29461-2901
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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

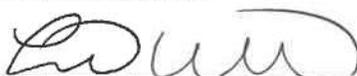
Sample # AG25167 **Location:** WGS well WLF A1-2 **Date:** 02/26/2025 **Sample Collector:** BWM/SB

Loc. Code WLF-A1-2 **Time:** 12:58

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	46.8	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	193	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	0.54	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	567	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	2280	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	121	mg/L	03/02/2025	GEL	EPA 300.0
Sulfate	310	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	842.5	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	1.42	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	1.19	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.61	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.12	SU	02/26/2025	BWM/SB	

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: 4/28/25
Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25169 Location: WGS well WLF A1-3 Date: 02/26/2025 Sample Collector: BWM/SB

Loc. Code WLF-A1-3 Time: 13:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	25.9	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	15.1	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	0.85	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	459	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Nickel	0.63	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	93.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	3.22	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	60.6	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	77.50	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	1.81	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.782	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.59	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	4.26	SU	02/26/2025	BWM/SB	

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: 4/28/05
Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25170 Location: WGS well WLF A1-4 Date: 02/27/2025 Sample Collector: ATH/SB

Loc. Code WLF-A1-4 Time: 09:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Barium	24.8	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Calcium	59.6	mg/L	03/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Antimony	5.7	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Iron	1730	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Boron	144	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	3.30	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	53.1	mg/L	03/01/2025	GEL	EPA 300.0
Total Dissolved Solids	200.0	mg/L	03/03/2025	GJKOCENI	SM 2540C
Radium 226	0.194	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	1.08	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.27	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.38	SU	02/27/2025	ATH/SB	

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: 4/28/25
Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25171 Location: WGS well WLF A1-4 Date: 02/27/2025 Sample Collector: ATH/SB

Loc. Code WLF-A1-4 DUP Time: 09:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Barium	25.1	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Calcium	58.6	mg/L	03/14/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Iron	1690	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Boron	143	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	3.31	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	54.2	mg/L	03/01/2025	GEL	EPA 300.0
Total Dissolved Solids	205.0	mg/L	03/03/2025	GJKOCENI	SM 2540C
Radium 226	0.219	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.829	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.05	pCi/L	04/07/2025	SLEVY	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: 4/28/25
Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25172 **Location:** WGS well WLF A1-5 **Date:** 02/26/2025 **Sample Collector:** BWM/SB

Loc. Code WLF-A1-5 **Time:** 10:55

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	34.7	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	273	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	0.52	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	2330	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Boron	2030	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Lithium	6.98	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	134	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	358	mg/L	03/01/2025	GEL	EPA 300.0
Total Dissolved Solids	1098	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	0.498	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.370	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.868	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.95	SU	02/26/2025	BWM/SB	

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: 4/28/25

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG25129 Location: GW Well WAP-7 Date: 02/25/2025 Sample Collector: MDG/SB
Loc. Code WAP-7 Time: 11:42

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	29.2	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	538	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Iron	79.6	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Magnesium	12.3	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Total Dissolved Solids	1968	mg/L	02/28/2025	GJKOCENI	SM 2540C
Chloride	26.6	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	1010	mg/L	03/01/2025	GEL	EPA 300.0
pH	6.57	SU	02/25/2025	MDG/SB	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Eurofins" - Eurofins. - Lab ID# 98001; "Pace"-Pace Analytical Laboratory- L ID# 99030

Qualifiers: U-Value below RL; H-Holding Time Exceeded; J-Value is Estimated; M-Matrix Interference

Analysis Validated: 
Linda Williams - Manager, Analytical Services

Validation Date: 4/21/25

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36912 Location: WGS well WBW A1 Date: 06/23/2025 Sample Collector: AGP/EA

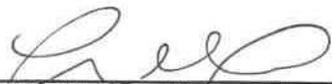
Loc. Code WBW-A1-1 Time: 15:28

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	43.6	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	66.2	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Iron	2390	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	74.4	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	11.5	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	173	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	270.0	mg/L	06/25/2025	JRLOTITO	SM 2540C
Radium 226	0.606	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.09	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.70	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.51	SU	06/23/2025	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:


Linda Williams - Manager Analytical Services

Validation date:

9/9/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36913 Location: WGS well WLF A1-1 Date: 06/24/2025 Sample Collector: AGP/EA

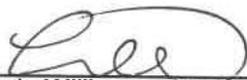
Loc. Code WLF-A1-1 Time: 11:59

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	30.4	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	222	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Iron	18500	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	415	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	11.5	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	301	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	805.0	mg/L	06/25/2025	JRLOTITO	SM 2540C
Radium 226	0.745	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.729	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.47	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.16	SU	06/24/2025	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:


Linda Williams - Manager Analytical Services

Validation date: 9/9/25

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG36914 **Location:** WGS well WLF A1-2 **Date:** 06/25/2025 **Sample Collector:** AGP/EA
Loc. Code WLF-A1-2 **Time:** 12:58

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	41.4	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	185	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Iron	426	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Nickel	0.60	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	2720	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/11/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	142	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	304	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	902.5	mg/L	06/26/2025	JRLOTITO	SM 2540C
Radium 226	1.28	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.928	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.21	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	5.88	SU	06/25/2025	AGP/EA	

Comments:

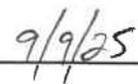
Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:


Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG36915 **Location:** WGS well WLF A1-3 **Date:** 06/24/2025 **Sample Collector:** AGP/EA

Loc. Code WLF-A1-3 **Time:** 11:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	7.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Barium	30.9	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Calcium	13.6	mg/L	07/28/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Iron	459	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Nickel	0.55	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Boron	79.4	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	3.46	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	51.9	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	97.50	mg/L	06/25/2025	JRLOTITO	SM 2540C
Radium 226	1.62	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.835	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.46	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.01	SU	06/24/2025	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:



Linda Williams - Manager Analytical Services

Validation date: 9/9/25

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36916 Location: WGS well WLF A1-4 Date: 06/24/2025 Sample Collector: AGP/EA

Loc. Code WLF-A1-4 Time: 09:49

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	26.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	38.4	mg/L	07/29/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Iron	3130	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Boron	108	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	3.93	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	47.1	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	162.5	mg/L	06/25/2025	JRLOTITO	SM 2540C
Radium 226	1.27	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.568	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.84	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	5.51	SU	06/24/2025	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:



Linda Williams - Manager Analytical Services

Validation date: 9/9/25

Authorized Signature Only - Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG36917 **Location:** WGS well WLF A1-4 **Date:** 06/24/2025 **Sample Collector:** AGP/EA

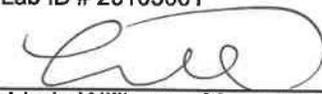
Loc. Code WLF-A1-4 **DUP** **Time:** 09:54

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	25.8	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	37.6	mg/L	07/29/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Iron	3130	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Boron	105	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	3.87	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	46.6	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	175.0	mg/L	06/25/2025	JRLOTITO	SM 2540C
Radium 226	0.610	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.699	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.31	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date: 9/9/25

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG36918 **Location:** WGS well WLF A1-5 **Date:** 06/24/2025 **Sample Collector:** AGP/EA

Loc. Code WLF-A1-5 **Time:** 13:04

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	31.7	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	272	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Iron	2700	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Boron	2200	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	8.33	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/14/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	07/07/2025	RWMIMS	EPA 300.0
Chloride	146	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	383	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1205	mg/L	06/25/2025	JRLOTITO	SM 2540C
Radium 226	0.945	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.197	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.14	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.97	SU	06/24/2025	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:



Linda Williams - Manager Analytical Services

Validation date: 9/9/25

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG36878 Location: GW Well WAP-7 Date: 06/25/2025 Sample Collector: AGP/EA
Loc. Code WAP-7 Time: 12:15

Analysis	Result	Units	Test Date	Analyst	Method
Aluminum	<0.1	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	16.6	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Calcium	290	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Iron	81.4	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Magnesium	3.1	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Selenium	14.6	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chloride	13.8	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	574	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1050	mg/L	06/26/2025	JRLOTITO	SM 2540C
pH	6.05	SU	06/25/2025	AGP/EA	

Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Eurofins" - Eurofins. - Lab ID# 98001; "Pace"-Pace Analytical Laboratory- L ID# 99030

Qualifiers: U-Value below RL; H-Holding Time Exceeded; J-Value is Estimated; M-Matrix Interference

Analysis Validated: 
Linda Williams - Manager, Analytical Services

Validation Date: 9/8/25

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

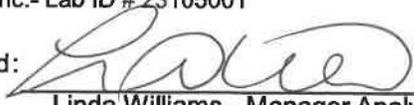
Sample # AG50066 **Location:** WGS well WLF A1-2 **Date:** 10/29/2025 **Sample Collector:** CG/JR
Loc. Code WLF-A1-2 **Time:** 13:39

Analysis	Result	Units	Test Date	Analyst	Method
Boron	690	ug/L	11/10/2025	SKJACOBS	EPA 6010D
pH	5.19	SU	10/29/2025	CG/JR	

Comments:

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

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:

12/9/25

Authorized Signature Only- Not Valid Unless Signed

SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

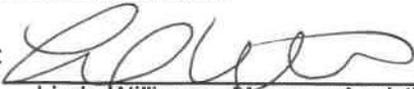
Sample # AG50067 **Location:** WGS well WLF A1-4 **Date:** 10/29/2025 **Sample Collector:**
Loc. Code WLF-A1-4 **Field Parameters Only** **Time:** 00:00

Analysis	Result	Units	Test Date	Analyst	Method
pH	5.54	SU	10/29/2025	CG/JR	

Comments:

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

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:

12/9/25

Authorized Signature Only- Not Valid Unless Signed



Chain of Custody

Winyah
CCR/Area 1 LF
(WLF-A1-1, 2, 3, 4, & 5 and WBW-A1-1 Duplicate WLF-A1-4 and field blank for WLF-A1-2)

Melanie Goings/A203

3 Weeks

125915 JM02.08.G01.1 /36500

Customer/Send Report To:

Need Results By (Date Needed):

Project/Task/Unit #

Contract Lab Due Date (Lab Only):

Preservative		Sample Analysis Requested (Method)				
Bottle Type (Glass/Plastic)	Number of Containers	As, Ba, Be, Ca, Cd, Co, Cr, Pb, Sb, Se, Ti, Cu, Fe, Ni, Zn	B, Li, Mo, Hg	Ra 226, Ra 228	F, Cl, SO4	TDS
Matrix	7	2	1	2	1	1
Grab/Comp	7	2	1	2	1	1

Labworks ID Number	Sample Location / Description	Collection		By
		Date	Time	
AG36914	WLF-A1-2	6/25/25	1323	AG/EA
AG36930	WLF-A1-2 F	6/25/25	1328	AG/EA

TEMP (°C)	INIT	Temperature Checks: Internal Use Only
0.4	777	
-EDITED DATE + TIME STL		

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/26/25 e 0753 TH

Start Date/Time	End Date/Time
6/25/25	0742

Sample Type: (G) Grab (P) Plastic	Date/Time/Int	Received by: (From Person / Lockbox)	Employee #
G	5/28/25	[Signature]	36851

Matrix Code	Preservation used	Bottom Ash	M-Misc	6-Other
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 <td>22-0325000 / 4G-10144</td> <td></td> <td></td> <td></td>	22-0325000 / 4G-10144			

Available Analytes:
TOC/DOC
TP, TPO4, NH3-N
F, Cl, NO2, Br, NO3, SO4, OPO4
TDS, TSS
Sulfide
BTEX, Naphthalene, 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, Ti, 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
Pulverizer Fineness
Particulate Matter Analysis

OH 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

Chain of Custody

Melanie Goings/A203

3 Weeks

125915 JM02.09.G01.1 / 36500

Customer/Send Report To:

Need Results By (Date Needed):

Project/Task/Unit #

Contract Lab Due Date (Lab Only):

Labworks ID Number	Sample Location / Description	Collection		Preservative	Sample Analysis Requested (Method)		Temperature Checks: Internal Use Only		
		Date	Time		By	Method			
AG36911	WBW-1	6/25/25	947	AGP/EA	1	1/2	1	TEMP (°C) 0.4	INIT TH
AG36871	WAP-1	6/25/25	1046	AGP/EA	P	P	P		
AG36878	WAP-7	6/25/25	1215	AGP/EA	P	P	P		

Matrix	Number of Containers	Fill in the Number of Containers for each Test	Temperature Checks: Internal Use Only
As, Ba, Be, Ca, Cd, Cr, Pb, Sb, Se, Hg	7	1	
B, Li, Mo, Hg	7	1	
F, Cl, SO4	7	1	
TDS	7	1	
Al, Cu, Fe, Mg, Ni, Zn	7	1	

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/26/25 @ 0753 TH

Composite Samples:
Start Date/Time:
End Date/Time:
Date/Time: 6/26/25 0742

Relinquished by: (To Person / Lockbox)
Date: 6/25/25
Employee #: 38361

Relinquished by: (To Person / Lockbox)
Date: 6/25/25
Employee #: 36851

Matrix Code: GW-Groundwater, BW-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-HNO3, 3-H2SO4, 4-HCl, 5-Na2S2O8, 6-Other (Specify)
Bottle Type: (G) Glass (P) Plastic
Date/Time/Int: 6/25/25 00:46:19
Sample Type: (G) Grab, (C) Composite

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2025 4:36:01 PM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

680-262767-1

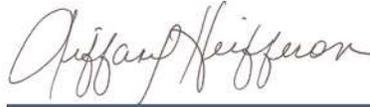
Eurofins Savannah

Job Notes

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

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

Authorization



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3/24/2025 4:36:01 PM

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

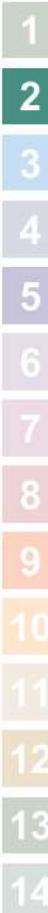


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Case Narrative

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

Job ID: 680-262767-1

Job ID: 680-262767-1

Eurofins Savannah

Job Narrative 680-262767-1

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 3/13/2025 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.1°C.

Metals

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

Eurofins Savannah

Sample Summary

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

Job ID: 680-262767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262767-1	AG25159	Water	03/06/25 10:43	03/13/25 09:30
680-262767-2	AG25160	Water	02/24/25 12:11	03/13/25 09:30
680-262767-3	AG25161	Water	02/24/25 12:49	03/13/25 09:30
680-262767-4	AG25138	Water	02/24/25 13:41	03/13/25 09:30
680-262767-5	AG25129	Water	02/25/25 11:42	03/13/25 09:30
680-262767-6	AG25153	Water	02/27/25 12:19	03/13/25 09:30

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Method Summary

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

Job ID: 680-262767-1

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

Protocol References:

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

Laboratory References:

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

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Definitions/Glossary

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

Job ID: 680-262767-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

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

Job ID: 680-262767-1

Client Sample ID: AG25159 **Lab Sample ID: 680-262767-1**

No Detections.

Client Sample ID: AG25160 **Lab Sample ID: 680-262767-2**

No Detections.

Client Sample ID: AG25161 **Lab Sample ID: 680-262767-3**

No Detections.

Client Sample ID: AG25138 **Lab Sample ID: 680-262767-4**

No Detections.

Client Sample ID: AG25129 **Lab Sample ID: 680-262767-5**

No Detections.

Client Sample ID: AG25153 **Lab Sample ID: 680-262767-6**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

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

Job ID: 680-262767-1

Client Sample ID: AG25159

Lab Sample ID: 680-262767-1

Date Collected: 03/06/25 10:43

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:09	1

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Client Sample Results

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

Job ID: 680-262767-1

Client Sample ID: AG25160

Lab Sample ID: 680-262767-2

Date Collected: 02/24/25 12:11

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:59	1

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Client Sample Results

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

Job ID: 680-262767-1

Client Sample ID: AG25161

Lab Sample ID: 680-262767-3

Date Collected: 02/24/25 12:49

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:11	1

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Client Sample Results

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

Job ID: 680-262767-1

Client Sample ID: AG25138

Lab Sample ID: 680-262767-4

Date Collected: 02/24/25 13:41

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:14	1

- 1
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Client Sample Results

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

Job ID: 680-262767-1

Client Sample ID: AG25129

Lab Sample ID: 680-262767-5

Date Collected: 02/25/25 11:42

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:02	1

- 1
- 2
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Client Sample Results

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

Job ID: 680-262767-1

Client Sample ID: AG25153

Lab Sample ID: 680-262767-6

Date Collected: 02/27/25 12:19

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:42	1

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QC Sample Results

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

Job ID: 680-262767-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-879235/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 17:55	1

Lab Sample ID: LCS 680-879235/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.221		ug/L		89	80 - 120

Lab Sample ID: 680-262836-B-18-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.7904	F1	ug/L		79	80 - 120

Lab Sample ID: 680-262836-B-18-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879235

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	0.8794		ug/L		88	80 - 120	11	20

Lab Sample ID: MB 680-879270/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:12	1

Lab Sample ID: LCS 680-879270/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.340		ug/L		94	80 - 120

Lab Sample ID: 680-262836-A-21-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.8804		ug/L		88	80 - 120

Lab Sample ID: 680-262836-A-21-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879270

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	0.8839		ug/L		88	80 - 120	0	20

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QC Association Summary

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

Job ID: 680-262767-1

Metals

Prep Batch: 879235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262767-6	AG25153	Total/NA	Water	7470A	
MB 680-879235/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879235/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-B-18-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-B-18-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 879270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262767-1	AG25159	Total/NA	Water	7470A	
680-262767-2	AG25160	Total/NA	Water	7470A	
680-262767-3	AG25161	Total/NA	Water	7470A	
680-262767-4	AG25138	Total/NA	Water	7470A	
680-262767-5	AG25129	Total/NA	Water	7470A	
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 879304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262767-1	AG25159	Total/NA	Water	7470A	879270
680-262767-2	AG25160	Total/NA	Water	7470A	879270
680-262767-3	AG25161	Total/NA	Water	7470A	879270
680-262767-4	AG25138	Total/NA	Water	7470A	879270
680-262767-5	AG25129	Total/NA	Water	7470A	879270
680-262767-6	AG25153	Total/NA	Water	7470A	879235
MB 680-879235/1-A	Method Blank	Total/NA	Water	7470A	879235
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	879270
LCS 680-879235/2-A	Lab Control Sample	Total/NA	Water	7470A	879235
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	879270
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	879270
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879270
680-262836-B-18-C MS	Matrix Spike	Total/NA	Water	7470A	879235
680-262836-B-18-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879235

Lab Chronicle

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

Job ID: 680-262767-1

Client Sample ID: AG25159

Lab Sample ID: 680-262767-1

Date Collected: 03/06/25 10:43

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:09

Client Sample ID: AG25160

Lab Sample ID: 680-262767-2

Date Collected: 02/24/25 12:11

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:59

Client Sample ID: AG25161

Lab Sample ID: 680-262767-3

Date Collected: 02/24/25 12:49

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:11

Client Sample ID: AG25138

Lab Sample ID: 680-262767-4

Date Collected: 02/24/25 13:41

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:14

Client Sample ID: AG25129

Lab Sample ID: 680-262767-5

Date Collected: 02/25/25 11:42

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:02

Client Sample ID: AG25153

Lab Sample ID: 680-262767-6

Date Collected: 02/27/25 12:19

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:42

Laboratory References:

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

Chain of Custody



COOLER |

Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02-07-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
AG-25159	WAP-27	3/6/25	1043	MDG DA	1	P	G	GW	2	7471 RL <0.2 ug/L	X
60	WAP-28	2/24/25	1211	ATH SB							
61	WAP-28R		1249								
38	WAP-13		1341								
AG-25129	WAP-7	2/25/25	1142	MDG SB							
AG-25153	WAP-22	2/27/25	1219	ATH SB							



680-262767 Chain of Custody

Nutrients <input type="checkbox"/> PO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> ABM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur <input type="checkbox"/> USDA	Coal <input type="checkbox"/> Short Prox. <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI Other Analysis: <input type="checkbox"/> Fincness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals (As, Cd, Cu, Ni, Pb, Hg) GOFER	MISC. <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<input type="checkbox"/> Metals (All) <table border="1"> <tr><td>Ag</td><td>Al</td><td>As</td><td>B</td></tr> <tr><td>Ba</td><td>Bi</td><td>Ca</td><td>Cd</td></tr> <tr><td>Cu</td><td>Cr</td><td>Cu</td><td>Fc</td></tr> <tr><td>K</td><td>Li</td><td>Mg</td><td>Mn</td></tr> <tr><td>Mo</td><td>Na</td><td>Ni</td><td>Pb</td></tr> <tr><td>Sb</td><td>Se</td><td>Sn</td><td>Sr</td></tr> <tr><td>Ti</td><td>Tl</td><td>V</td><td>Zn</td></tr> </table> Hg Cr(VI) XRF scan RCRA (As, Ba, Cd, Cu, Ni, Pb, Hg, Se, Ag)	Ag	Al	As	B	Ba	Bi	Ca	Cd	Cu	Cr	Cu	Fc	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Ag	Al	As	B																															
Ba	Bi	Ca	Cd																															
Cu	Cr	Cu	Fc																															
K	Li	Mg	Mn																															
Mo	Na	Ni	Pb																															
Sb	Se	Sn	Sr																															
Ti	Tl	V	Zn																															

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: _____
<i>S. Levy</i>	35574	FED-EX	—	3/12/25	1030	
		<i>C. M...</i>		3/13/25	0930	

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-262767-1

Login Number: 262767

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 680-262767-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

- 1
- 2
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/24/2025 4:45:37 PM

JOB DESCRIPTION

125915/JM02.08.G01.1/36500

JOB NUMBER

680-262769-1

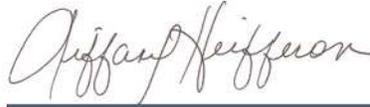
Eurofins Savannah

Job Notes

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Authorization



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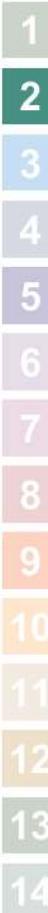


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Case Narrative

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

Job ID: 680-262769-1

Job ID: 680-262769-1

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Job Narrative 680-262769-1

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 3/13/2025 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.1°C.

Metals

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

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Sample Summary

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

Job ID: 680-262769-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262769-1	AG25173	Water	03/04/25 10:04	03/13/25 09:30
680-262769-2	AG25174	Water	03/04/25 11:03	03/13/25 09:30
680-262769-3	AG25146	Water	03/04/25 12:00	03/13/25 09:30
680-262769-4	AG25147	Water	03/04/25 12:05	03/13/25 09:30
680-262769-5	AG25149	Water	03/04/25 14:05	03/13/25 09:30
680-262769-6	AG25150	Water	03/04/25 14:10	03/13/25 09:30
680-262769-7	AG25177	Water	02/27/25 10:06	03/13/25 09:30
680-262769-8	AG25175	Water	02/27/25 10:42	03/13/25 09:30
680-262769-9	AG25176	Water	02/27/25 10:47	03/13/25 09:30
680-262769-10	AG25148	Water	02/27/25 11:49	03/13/25 09:30
680-262769-11	AG25170	Water	02/27/25 09:34	03/13/25 09:30
680-262769-12	AG25171	Water	02/27/25 09:39	03/13/25 09:30
680-262769-13	AG25165	Water	02/26/25 09:38	03/13/25 09:30
680-262769-14	AG25166	Water	02/26/25 11:55	03/13/25 09:30
680-262769-15	AG25172	Water	02/26/25 10:55	03/13/25 09:30
680-262769-16	AG25167	Water	02/26/25 12:28	03/13/25 09:30
680-262769-17	AG25168	Water	02/26/25 12:40	03/13/25 09:30
680-262769-18	AG25169	Water	02/26/25 13:45	03/13/25 09:30



Method Summary

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

Job ID: 680-262769-1

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

Protocol References:

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

Laboratory References:

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

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Definitions/Glossary

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

Job ID: 680-262769-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

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

Job ID: 680-262769-1

Client Sample ID: AG25173	Lab Sample ID: 680-262769-1
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25174	Lab Sample ID: 680-262769-2
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25146	Lab Sample ID: 680-262769-3
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25147	Lab Sample ID: 680-262769-4
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25149	Lab Sample ID: 680-262769-5
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25150	Lab Sample ID: 680-262769-6
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25177	Lab Sample ID: 680-262769-7
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25175	Lab Sample ID: 680-262769-8
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25176	Lab Sample ID: 680-262769-9
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25148	Lab Sample ID: 680-262769-10
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25170	Lab Sample ID: 680-262769-11
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25171	Lab Sample ID: 680-262769-12
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25165	Lab Sample ID: 680-262769-13
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25166	Lab Sample ID: 680-262769-14
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25172	Lab Sample ID: 680-262769-15
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25167	Lab Sample ID: 680-262769-16
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 680-262769-1

Client Sample ID: AG25168

Lab Sample ID: 680-262769-17

No Detections.

Client Sample ID: AG25169

Lab Sample ID: 680-262769-18

No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25173

Lab Sample ID: 680-262769-1

Date Collected: 03/04/25 10:04

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:35	1

- 1
- 2
- 3
- 4
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- 11
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- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25174

Lab Sample ID: 680-262769-2

Date Collected: 03/04/25 11:03

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:33	1

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25146

Lab Sample ID: 680-262769-3

Date Collected: 03/04/25 12:00

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:12	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 11
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- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25147

Lab Sample ID: 680-262769-4

Date Collected: 03/04/25 12:05

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:14	1

- 1
- 2
- 3
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25149

Lab Sample ID: 680-262769-5

Date Collected: 03/04/25 14:05

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:38	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25150

Lab Sample ID: 680-262769-6

Date Collected: 03/04/25 14:10

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:40	1

- 1
- 2
- 3
- 4
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- 10
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25177

Lab Sample ID: 680-262769-7

Date Collected: 02/27/25 10:06

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 21:04	1

- 1
- 2
- 3
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- 11
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25175

Lab Sample ID: 680-262769-8

Date Collected: 02/27/25 10:42

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:57	1

- 1
- 2
- 3
- 4
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- 10
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- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25176

Lab Sample ID: 680-262769-9

Date Collected: 02/27/25 10:47

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:26	1

- 1
- 2
- 3
- 4
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- 11
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- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25148

Lab Sample ID: 680-262769-10

Date Collected: 02/27/25 11:49

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:52	1

- 1
- 2
- 3
- 4
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- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25170

Lab Sample ID: 680-262769-11

Date Collected: 02/27/25 09:34

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:31	1

- 1
- 2
- 3
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25171

Lab Sample ID: 680-262769-12

Date Collected: 02/27/25 09:39

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:21	1

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25165

Lab Sample ID: 680-262769-13

Date Collected: 02/26/25 09:38

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:59	1

- 1
- 2
- 3
- 4
- 5
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- 13
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25166

Lab Sample ID: 680-262769-14

Date Collected: 02/26/25 11:55

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:54	1

- 1
- 2
- 3
- 4
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25172

Lab Sample ID: 680-262769-15

Date Collected: 02/26/25 10:55

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:28	1

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

Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25167

Lab Sample ID: 680-262769-16

Date Collected: 02/26/25 12:28

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:24	1

- 1
- 2
- 3
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- 10
- 11
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- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25168

Lab Sample ID: 680-262769-17

Date Collected: 02/26/25 12:40

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 18:49	1

- 1
- 2
- 3
- 4
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Client Sample Results

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

Job ID: 680-262769-1

Client Sample ID: AG25169

Lab Sample ID: 680-262769-18

Date Collected: 02/26/25 13:45

Matrix: Water

Date Received: 03/13/25 09:30

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:52	1

- 1
- 2
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QC Sample Results

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

Job ID: 680-262769-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-879235/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 11:26	03/19/25 17:55	1

Lab Sample ID: LCS 680-879235/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.221		ug/L		89	80 - 120

Lab Sample ID: 680-262836-B-18-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879235

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.7904	F1	ug/L		79	80 - 120

Lab Sample ID: 680-262836-B-18-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879235

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	0.8794		ug/L		88	80 - 120	11	20

Lab Sample ID: MB 680-879270/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:24	03/19/25 20:12	1

Lab Sample ID: LCS 680-879270/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.340		ug/L		94	80 - 120

Lab Sample ID: 680-262836-A-21-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U	1.00	0.8804		ug/L		88	80 - 120

Lab Sample ID: 680-262836-A-21-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879270

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	0.8839		ug/L		88	80 - 120	0	20

Eurofins Savannah

QC Association Summary

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

Job ID: 680-262769-1

Metals

Prep Batch: 879235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262769-1	AG25173	Total/NA	Water	7470A	
680-262769-2	AG25174	Total/NA	Water	7470A	
680-262769-3	AG25146	Total/NA	Water	7470A	
680-262769-4	AG25147	Total/NA	Water	7470A	
680-262769-5	AG25149	Total/NA	Water	7470A	
680-262769-6	AG25150	Total/NA	Water	7470A	
680-262769-8	AG25175	Total/NA	Water	7470A	
680-262769-9	AG25176	Total/NA	Water	7470A	
680-262769-10	AG25148	Total/NA	Water	7470A	
680-262769-11	AG25170	Total/NA	Water	7470A	
680-262769-12	AG25171	Total/NA	Water	7470A	
680-262769-13	AG25165	Total/NA	Water	7470A	
680-262769-14	AG25166	Total/NA	Water	7470A	
680-262769-15	AG25172	Total/NA	Water	7470A	
680-262769-16	AG25167	Total/NA	Water	7470A	
680-262769-17	AG25168	Total/NA	Water	7470A	
MB 680-879235/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879235/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-B-18-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-B-18-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 879270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262769-7	AG25177	Total/NA	Water	7470A	
680-262769-18	AG25169	Total/NA	Water	7470A	
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 879304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262769-1	AG25173	Total/NA	Water	7470A	879235
680-262769-2	AG25174	Total/NA	Water	7470A	879235
680-262769-3	AG25146	Total/NA	Water	7470A	879235
680-262769-4	AG25147	Total/NA	Water	7470A	879235
680-262769-5	AG25149	Total/NA	Water	7470A	879235
680-262769-6	AG25150	Total/NA	Water	7470A	879235
680-262769-7	AG25177	Total/NA	Water	7470A	879270
680-262769-8	AG25175	Total/NA	Water	7470A	879235
680-262769-9	AG25176	Total/NA	Water	7470A	879235
680-262769-10	AG25148	Total/NA	Water	7470A	879235
680-262769-11	AG25170	Total/NA	Water	7470A	879235
680-262769-12	AG25171	Total/NA	Water	7470A	879235
680-262769-13	AG25165	Total/NA	Water	7470A	879235
680-262769-14	AG25166	Total/NA	Water	7470A	879235
680-262769-15	AG25172	Total/NA	Water	7470A	879235
680-262769-16	AG25167	Total/NA	Water	7470A	879235
680-262769-17	AG25168	Total/NA	Water	7470A	879235
680-262769-18	AG25169	Total/NA	Water	7470A	879270
MB 680-879235/1-A	Method Blank	Total/NA	Water	7470A	879235

Eurofins Savannah

QC Association Summary

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

Job ID: 680-262769-1

Metals (Continued)

Analysis Batch: 879304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-879270/1-A	Method Blank	Total/NA	Water	7470A	879270
LCS 680-879235/2-A	Lab Control Sample	Total/NA	Water	7470A	879235
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	879270
680-262836-A-21-C MS	Matrix Spike	Total/NA	Water	7470A	879270
680-262836-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879270
680-262836-B-18-C MS	Matrix Spike	Total/NA	Water	7470A	879235
680-262836-B-18-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879235

Lab Chronicle

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

Job ID: 680-262769-1

Client Sample ID: AG25173

Lab Sample ID: 680-262769-1

Date Collected: 03/04/25 10:04

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:35

Client Sample ID: AG25174

Lab Sample ID: 680-262769-2

Date Collected: 03/04/25 11:03

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:33

Client Sample ID: AG25146

Lab Sample ID: 680-262769-3

Date Collected: 03/04/25 12:00

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:12

Client Sample ID: AG25147

Lab Sample ID: 680-262769-4

Date Collected: 03/04/25 12:05

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:14

Client Sample ID: AG25149

Lab Sample ID: 680-262769-5

Date Collected: 03/04/25 14:05

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:38

Client Sample ID: AG25150

Lab Sample ID: 680-262769-6

Date Collected: 03/04/25 14:10

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:40

Lab Chronicle

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

Job ID: 680-262769-1

Client Sample ID: AG25177

Lab Sample ID: 680-262769-7

Date Collected: 02/27/25 10:06

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 21:04

Client Sample ID: AG25175

Lab Sample ID: 680-262769-8

Date Collected: 02/27/25 10:42

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:57

Client Sample ID: AG25176

Lab Sample ID: 680-262769-9

Date Collected: 02/27/25 10:47

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:26

Client Sample ID: AG25148

Lab Sample ID: 680-262769-10

Date Collected: 02/27/25 11:49

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:52

Client Sample ID: AG25170

Lab Sample ID: 680-262769-11

Date Collected: 02/27/25 09:34

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:31

Client Sample ID: AG25171

Lab Sample ID: 680-262769-12

Date Collected: 02/27/25 09:39

Matrix: Water

Date Received: 03/13/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:21

Lab Chronicle

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

Job ID: 680-262769-1

Client Sample ID: AG25165

Date Collected: 02/26/25 09:38

Date Received: 03/13/25 09:30

Lab Sample ID: 680-262769-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:59

Client Sample ID: AG25166

Date Collected: 02/26/25 11:55

Date Received: 03/13/25 09:30

Lab Sample ID: 680-262769-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:54

Client Sample ID: AG25172

Date Collected: 02/26/25 10:55

Date Received: 03/13/25 09:30

Lab Sample ID: 680-262769-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:28

Client Sample ID: AG25167

Date Collected: 02/26/25 12:28

Date Received: 03/13/25 09:30

Lab Sample ID: 680-262769-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:24

Client Sample ID: AG25168

Date Collected: 02/26/25 12:40

Date Received: 03/13/25 09:30

Lab Sample ID: 680-262769-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879235	MG	EET SAV	03/19/25 11:26
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 18:49

Client Sample ID: AG25169

Date Collected: 02/26/25 13:45

Date Received: 03/13/25 09:30

Lab Sample ID: 680-262769-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			879270	MG	EET SAV	03/19/25 14:24
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:52

Laboratory References:

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

Chain of Custody



COOLER 1

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

LINDA. WILLIAMS @santeecooper.com / / 125915 / JM02.08.G01.1 / 36500 Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	Hg
AG-25173	WLF-A2-1	3/4/25	1004	BM DA	1	P	G	GW	2	7471 RL<0.2 ug/L	X
74	WLF-A2-2		1103								
46	WAP-17		1200								
47	WAP-17 DUP		1205								
49	WAP-19		1405								
50	WAP-19F		1410								
AG-25177	WLF-A2-6F	2/27/25	1006							 680-262769 Chain of Custody	
75	WLF-A2-6		1042								
76	WLF-A2-6 DUP		1047								
48	WAP-18		1147								

Nutrients TOC DOC TP/TP04 NH3-N Cl NO2 NO3 SO4	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> AlM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur <input type="checkbox"/> USDA	Coal <input type="checkbox"/> Short Prox. <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil Trans. Oil Quality <input type="checkbox"/> Used Oil Metals (As, Cd, Cr, Ni, Pb, Hg) GOFER	MISC. <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<input type="checkbox"/> 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)
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Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only) TEMP (°C): _____ Initials: _____ Correct pH: Yes No Preservative Lot #: <u>18.1/18.1</u> Date/Time/Init for preservative:
<i>S. Levy</i>	35594	FED-EX	-	3/12/25	1030	
		<i>C. Muro</i>		3/13/25	0930	

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

Chain of Custody



COOLER 1

Customer Email/Report Recipient: LINDA.WILLIAMS @santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.08. 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: (Class- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	HIS
AG 25170	WLF-A1-4	2/27/25	0934	ATH SB	1	P	G	GW	2	7471 RL<0.2 ug/L	X
↓ 71	WLF-A1-4 DUP	↓	0939	↓							
AG 25165	WBW-A1-1	2/26/25	0938	BWM SB							
↓ 66	WLF-A1-1		1155								
↓ 72	WLF-A1-5		1055								
↓ 67	WLF-A1-2		1228								
↓ 68	WLF-A1-2F		1240								
↓ 69	WLF-A1-3		1345								

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

Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only) TEMP (°C): _____ Initials: _____ Correct pH: Yes No Preservative Lot #: _____ 18-1/18-1 Date/Time/Init for preservative: _____
<i>S. Levy</i>	35594	FED-EX	—	3/12/25	1030	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
		<i>C. Mann</i>		3/13/25	0930	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-262769-1

Login Number: 262769

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 680-262769-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-26

- 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 7/14/2025 11:24:08 AM

JOB DESCRIPTION

Santee Cooper

JOB NUMBER

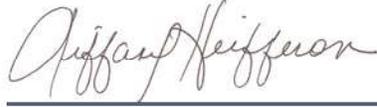
705-35290-1

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
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Case Narrative

Client: South Carolina Public Service Authority
Project: Santee Cooper

Job ID: 705-35290-1

Job ID: 705-35290-1

Eurofins Atlanta

Job Narrative 705-35290-1

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 7/1/2025 10:45 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.

Eurofins Atlanta

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-24

Lab Sample ID: 705-35290-1

No Detections.

Client Sample ID: WAP-2

Lab Sample ID: 705-35290-2

No Detections.

Client Sample ID: WAP-2F

Lab Sample ID: 705-35290-3

No Detections.

Client Sample ID: WAP-2R

Lab Sample ID: 705-35290-4

No Detections.

Client Sample ID: WBW-1

Lab Sample ID: 705-35290-5

No Detections.

Client Sample ID: WAP-1

Lab Sample ID: 705-35290-6

No Detections.

Client Sample ID: WAP-7

Lab Sample ID: 705-35290-7

No Detections.

Client Sample ID: WLF-AI-2

Lab Sample ID: 705-35290-8

No Detections.

Client Sample ID: WLF-AI-2F

Lab Sample ID: 705-35290-9

No Detections.

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35290-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-35290-1	WAP-24	Groundwater	06/26/25 12:09	07/01/25 10:45
705-35290-2	WAP-2	Groundwater	06/25/25 14:22	07/01/25 10:45
705-35290-3	WAP-2F	Groundwater	06/25/25 14:27	07/01/25 10:45
705-35290-4	WAP-2R	Groundwater	06/25/25 15:11	07/01/25 10:45
705-35290-5	WBW-1	Groundwater	06/25/25 09:47	07/01/25 10:45
705-35290-6	WAP-1	Groundwater	06/25/25 10:46	07/01/25 10:45
705-35290-7	WAP-7	Groundwater	06/25/25 12:15	07/01/25 10:45
705-35290-8	WLF-AI-2	Groundwater	06/25/25 13:23	07/01/25 10:45
705-35290-9	WLF-AI-2F	Groundwater	06/25/25 13:28	07/01/25 10:45
705-35290-10	WLF-AI-1	Groundwater	06/23/25 15:28	07/01/25 10:45



Method Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

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: Santee Cooper

Job ID: 705-35290-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-24

Lab Sample ID: 705-35290-1

Date Collected: 06/26/25 12:09

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:12	1

Client Sample ID: WAP-2

Lab Sample ID: 705-35290-2

Date Collected: 06/25/25 14:22

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:16	1

Client Sample ID: WAP-2F

Lab Sample ID: 705-35290-3

Date Collected: 06/25/25 14:27

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:20	1

Client Sample ID: WAP-2R

Lab Sample ID: 705-35290-4

Date Collected: 06/25/25 15:11

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:24	1

Client Sample ID: WBW-1

Lab Sample ID: 705-35290-5

Date Collected: 06/25/25 09:47

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:28	1

Client Sample ID: WAP-1

Lab Sample ID: 705-35290-6

Date Collected: 06/25/25 10:46

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:44	1

Client Sample ID: WAP-7

Lab Sample ID: 705-35290-7

Date Collected: 06/25/25 12:15

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:47	1

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Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WLF-AI-2

Lab Sample ID: 705-35290-8

Date Collected: 06/25/25 13:23

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:51	1

Client Sample ID: WLF-AI-2F

Lab Sample ID: 705-35290-9

Date Collected: 06/25/25 13:28

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:55	1

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35290-10

Date Collected: 06/23/25 15:28

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 21:59	1

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35290-1

Metals

Prep Batch: 67298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35290-1	WAP-24	Total/NA	Groundwater	7470A	
705-35290-2	WAP-2	Total/NA	Groundwater	7470A	
705-35290-3	WAP-2F	Total/NA	Groundwater	7470A	
705-35290-4	WAP-2R	Total/NA	Groundwater	7470A	
705-35290-5	WBW-1	Total/NA	Groundwater	7470A	
705-35290-6	WAP-1	Total/NA	Groundwater	7470A	
705-35290-7	WAP-7	Total/NA	Groundwater	7470A	
705-35290-8	WLF-AI-2	Total/NA	Groundwater	7470A	
705-35290-9	WLF-AI-2F	Total/NA	Groundwater	7470A	
705-35290-10	WLF-AI-1	Total/NA	Groundwater	7470A	
MB 705-67298/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-67298/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-264973-F-4-G MS	Matrix Spike	Total/NA	Water	7470A	
680-264973-F-4-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 67310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35290-1	WAP-24	Total/NA	Groundwater	7470A	67298
705-35290-2	WAP-2	Total/NA	Groundwater	7470A	67298
705-35290-3	WAP-2F	Total/NA	Groundwater	7470A	67298
705-35290-4	WAP-2R	Total/NA	Groundwater	7470A	67298
705-35290-5	WBW-1	Total/NA	Groundwater	7470A	67298
705-35290-6	WAP-1	Total/NA	Groundwater	7470A	67298
705-35290-7	WAP-7	Total/NA	Groundwater	7470A	67298
705-35290-8	WLF-AI-2	Total/NA	Groundwater	7470A	67298
705-35290-9	WLF-AI-2F	Total/NA	Groundwater	7470A	67298
705-35290-10	WLF-AI-1	Total/NA	Groundwater	7470A	67298
MB 705-67298/1-A	Method Blank	Total/NA	Water	7470A	67298
LCS 705-67298/2-A	Lab Control Sample	Total/NA	Water	7470A	67298
680-264973-F-4-G MS	Matrix Spike	Total/NA	Water	7470A	67298
680-264973-F-4-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	67298

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35290-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-67298/1-A
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/11/25 14:45	07/11/25 20:26	1

Lab Sample ID: LCS 705-67298/2-A
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.004278		mg/L		107	80 - 120

Lab Sample ID: 680-264973-F-4-G MS
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004245		mg/L		106	75 - 125

Lab Sample ID: 680-264973-F-4-H MSD
Matrix: Water
Analysis Batch: 67310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67298

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	0.004254		mg/L		106	75 - 125	0	20

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-24

Lab Sample ID: 705-35290-1

Date Collected: 06/26/25 12:09

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:12

Client Sample ID: WAP-2

Lab Sample ID: 705-35290-2

Date Collected: 06/25/25 14:22

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:16

Client Sample ID: WAP-2F

Lab Sample ID: 705-35290-3

Date Collected: 06/25/25 14:27

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:20

Client Sample ID: WAP-2R

Lab Sample ID: 705-35290-4

Date Collected: 06/25/25 15:11

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:24

Client Sample ID: WBW-1

Lab Sample ID: 705-35290-5

Date Collected: 06/25/25 09:47

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:28

Client Sample ID: WAP-1

Lab Sample ID: 705-35290-6

Date Collected: 06/25/25 10:46

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:44

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35290-1

Client Sample ID: WAP-7

Lab Sample ID: 705-35290-7

Date Collected: 06/25/25 12:15

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:47

Client Sample ID: WLF-AI-2

Lab Sample ID: 705-35290-8

Date Collected: 06/25/25 13:23

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:51

Client Sample ID: WLF-AI-2F

Lab Sample ID: 705-35290-9

Date Collected: 06/25/25 13:28

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:55

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35290-10

Date Collected: 06/23/25 15:28

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67298	TA	EET ATL	07/11/25 14:45
Total/NA	Analysis	7470A		1	67310	GR	EET ATL	07/11/25 21:59

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-35290-1

Login Number: 35290

List Number: 1

Creator: Taylor, Renee

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
Project/Site: Santee Cooper

Job ID: 705-35290-1

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-26
South Carolina	State	98016	06-30-26

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- 15

END OF REPORT

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/16/2025 1:45:04 PM

JOB DESCRIPTION

Santee Cooper

JOB NUMBER

705-35289-1

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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7/16/2025 1:45:04 PM

Authorized for release by
Tiffany Heifferon, Project Manager I
Tiffany.Heifferon@et.eurofinsus.com
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Case Narrative

Client: South Carolina Public Service Authority
Project: Santee Cooper

Job ID: 705-35289-1

Job ID: 705-35289-1

Eurofins Atlanta

Job Narrative 705-35289-1

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 7/1/2025 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Metals

Method 7470A: The continuing calibration blank (CCB) for analytical batch 705-67679 contained Mercury above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

Eurofins Atlanta

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WAP-10

Lab Sample ID: 705-35289-1

No Detections.

Client Sample ID: WAP-10 DUP

Lab Sample ID: 705-35289-2

No Detections.

Client Sample ID: WAP-9

Lab Sample ID: 705-35289-3

No Detections.

Client Sample ID: WAP-3

Lab Sample ID: 705-35289-4

No Detections.

Client Sample ID: WAP-4

Lab Sample ID: 705-35289-5

No Detections.

Client Sample ID: WLF-AI-4

Lab Sample ID: 705-35289-6

No Detections.

Client Sample ID: WLF-AI-4 DUP

Lab Sample ID: 705-35289-7

No Detections.

Client Sample ID: WLF-AI-3

Lab Sample ID: 705-35289-8

No Detections.

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35289-9

No Detections.

Client Sample ID: WLF-AI-5

Lab Sample ID: 705-35289-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-35289-1	WAP-10	Groundwater	06/26/25 10:58	07/01/25 10:45
705-35289-2	WAP-10 DUP	Groundwater	06/26/25 11:03	07/01/25 10:45
705-35289-3	WAP-9	Groundwater	06/26/25 13:11	07/01/25 10:45
705-35289-4	WAP-3	Groundwater	06/26/25 14:24	07/01/25 10:45
705-35289-5	WAP-4	Groundwater	06/26/25 15:33	07/01/25 10:45
705-35289-6	WLF-AI-4	Groundwater	06/24/25 09:49	07/01/25 10:45
705-35289-7	WLF-AI-4 DUP	Groundwater	06/24/25 09:54	07/01/25 10:45
705-35289-8	WLF-AI-3	Groundwater	06/24/25 11:00	07/01/25 10:45
705-35289-9	WLF-AI-1	Groundwater	06/24/25 11:59	07/01/25 10:45
705-35289-10	WLF-AI-5	Groundwater	06/24/25 13:04	07/01/25 10:45



Method Summary

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

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: Santee Cooper

Job ID: 705-35289-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WAP-10

Lab Sample ID: 705-35289-1

Date Collected: 06/26/25 10:58

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 18:51	1

Client Sample ID: WAP-10 DUP

Lab Sample ID: 705-35289-2

Date Collected: 06/26/25 11:03

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 18:55	1

Client Sample ID: WAP-9

Lab Sample ID: 705-35289-3

Date Collected: 06/26/25 13:11

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 18:59	1

Client Sample ID: WAP-3

Lab Sample ID: 705-35289-4

Date Collected: 06/26/25 14:24

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/15/25 15:19	07/15/25 20:57	1

Client Sample ID: WAP-4

Lab Sample ID: 705-35289-5

Date Collected: 06/26/25 15:33

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/15/25 15:19	07/15/25 21:01	1

Client Sample ID: WLF-AI-4

Lab Sample ID: 705-35289-6

Date Collected: 06/24/25 09:49

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:11	1

Client Sample ID: WLF-AI-4 DUP

Lab Sample ID: 705-35289-7

Date Collected: 06/24/25 09:54

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:15	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WLF-AI-3

Lab Sample ID: 705-35289-8

Date Collected: 06/24/25 11:00

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:19	1

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35289-9

Date Collected: 06/24/25 11:59

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:23	1

Client Sample ID: WLF-AI-5

Lab Sample ID: 705-35289-10

Date Collected: 06/24/25 13:04

Matrix: Groundwater

Date Received: 07/01/25 10:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 19:26	1

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35289-1

Metals

Prep Batch: 67612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-1	WAP-10	Total/NA	Groundwater	7470A	
705-35289-2	WAP-10 DUP	Total/NA	Groundwater	7470A	
705-35289-3	WAP-9	Total/NA	Groundwater	7470A	
705-35289-6	WLF-AI-4	Total/NA	Groundwater	7470A	
705-35289-7	WLF-AI-4 DUP	Total/NA	Groundwater	7470A	
705-35289-8	WLF-AI-3	Total/NA	Groundwater	7470A	
705-35289-9	WLF-AI-1	Total/NA	Groundwater	7470A	
705-35289-10	WLF-AI-5	Total/NA	Groundwater	7470A	
MB 705-67612/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-67612/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-36548-C-2-E MS	Matrix Spike	Total/NA	Water	7470A	
705-36548-C-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 67679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-1	WAP-10	Total/NA	Groundwater	7470A	67612
705-35289-2	WAP-10 DUP	Total/NA	Groundwater	7470A	67612
705-35289-3	WAP-9	Total/NA	Groundwater	7470A	67612
705-35289-6	WLF-AI-4	Total/NA	Groundwater	7470A	67612
705-35289-7	WLF-AI-4 DUP	Total/NA	Groundwater	7470A	67612
705-35289-8	WLF-AI-3	Total/NA	Groundwater	7470A	67612
705-35289-9	WLF-AI-1	Total/NA	Groundwater	7470A	67612
705-35289-10	WLF-AI-5	Total/NA	Groundwater	7470A	67612
MB 705-67612/1-A	Method Blank	Total/NA	Water	7470A	67612
LCS 705-67612/2-A	Lab Control Sample	Total/NA	Water	7470A	67612
705-36548-C-2-E MS	Matrix Spike	Total/NA	Water	7470A	67612
705-36548-C-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	67612

Prep Batch: 67926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-4	WAP-3	Total/NA	Groundwater	7470A	
705-35289-5	WAP-4	Total/NA	Groundwater	7470A	
MB 705-67926/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-67926/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-36058-A-4-E MS	Matrix Spike	Total/NA	Water	7470A	
705-36058-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 67976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-35289-4	WAP-3	Total/NA	Groundwater	7470A	67926
705-35289-5	WAP-4	Total/NA	Groundwater	7470A	67926
MB 705-67926/1-A	Method Blank	Total/NA	Water	7470A	67926
LCS 705-67926/2-A	Lab Control Sample	Total/NA	Water	7470A	67926
705-36058-A-4-E MS	Matrix Spike	Total/NA	Water	7470A	67926
705-36058-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	67926

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35289-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-67612/1-A
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/14/25 12:58	07/14/25 17:45	1

Lab Sample ID: LCS 705-67612/2-A
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003983		mg/L		100	80 - 120

Lab Sample ID: 705-36548-C-2-E MS
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004400		mg/L		110	75 - 125

Lab Sample ID: 705-36548-C-2-F MSD
Matrix: Water
Analysis Batch: 67679

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67612

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	0.004065		mg/L		102	75 - 125	8	20

Lab Sample ID: MB 705-67926/1-A
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/15/25 15:19	07/15/25 18:56	1

Lab Sample ID: LCS 705-67926/2-A
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003804		mg/L		95	80 - 120

Lab Sample ID: 705-36058-A-4-E MS
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 67926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.003857		mg/L		96	75 - 125

Lab Sample ID: 705-36058-A-4-F MSD
Matrix: Water
Analysis Batch: 67976

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 67926

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	0.003622		mg/L		91	75 - 125	6	20

Eurofins Atlanta

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WAP-10

Lab Sample ID: 705-35289-1

Date Collected: 06/26/25 10:58

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 18:51

Client Sample ID: WAP-10 DUP

Lab Sample ID: 705-35289-2

Date Collected: 06/26/25 11:03

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 18:55

Client Sample ID: WAP-9

Lab Sample ID: 705-35289-3

Date Collected: 06/26/25 13:11

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 18:59

Client Sample ID: WAP-3

Lab Sample ID: 705-35289-4

Date Collected: 06/26/25 14:24

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67926	GR	EET ATL	07/15/25 15:19
Total/NA	Analysis	7470A		1	67976	GR	EET ATL	07/15/25 20:57

Client Sample ID: WAP-4

Lab Sample ID: 705-35289-5

Date Collected: 06/26/25 15:33

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67926	GR	EET ATL	07/15/25 15:19
Total/NA	Analysis	7470A		1	67976	GR	EET ATL	07/15/25 21:01

Client Sample ID: WLF-AI-4

Lab Sample ID: 705-35289-6

Date Collected: 06/24/25 09:49

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:11

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: Santee Cooper

Job ID: 705-35289-1

Client Sample ID: WLF-AI-4 DUP

Lab Sample ID: 705-35289-7

Date Collected: 06/24/25 09:54

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:15

Client Sample ID: WLF-AI-3

Lab Sample ID: 705-35289-8

Date Collected: 06/24/25 11:00

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:19

Client Sample ID: WLF-AI-1

Lab Sample ID: 705-35289-9

Date Collected: 06/24/25 11:59

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:23

Client Sample ID: WLF-AI-5

Lab Sample ID: 705-35289-10

Date Collected: 06/24/25 13:04

Matrix: Groundwater

Date Received: 07/01/25 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			67612	GR	EET ATL	07/14/25 12:58
Total/NA	Analysis	7470A		1	67679	GR	EET ATL	07/14/25 19:26

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Chain of Custody



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

705 35289 COC

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com
Date Results Needed by: / /
Project/Task/Unit #: 125915 / JM02.08.GRI.3 / 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			
AG36881	WAP-10	6/26/25	1058	AGP EA	1	P	G	GW	2	7470 RL < 0.2 ug/L	X		
AG36882	WAP-10 DUP		1103										
AG36880	WAP-9		1311										
AG36874	WAP-3		1424										
AG36875	WAP-4		1533										
AG36916	WLF-A1-4	6/24/25	0949										
AG36917	WLF-A1-4 DUP		0954										
AG36915	WLF-A1-3		1100										
AG36913	WLF-A1-1		1159										
AG36918	WLF-A1-5		1304										

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
TOC DOC TP/TP04 NH3-N F Cl NO2 B NO3 SO4	Wallboard Ash TOC Total metals Soluble metals Purity (CaSO4) % Moisture Sulfites pH Chlorides Particle Size Sulfur USDA	<input type="checkbox"/> Short Prox. <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Fresh Oil Quality Flashpoint Viscosity Density @ 15°C BT Dissolved Gases Used Oil Flashpoint Metals As, Cd, Cr, Ni, Pb, Hg	<input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	Ag, Al, As, Ba, Be, Bi, Br, B, Ca, Cd, Co, Cr, Cu, Fe, F, H, Hg, I, In, K, Li, Mn, Mo, Ni, Pb, P, Pt, Se, Si, Sn, Sr, S, Tl, U, V, Zn, Zr (CA) XRF scan PCBs, As, Ba, Bi, Br, B, Se, Ag

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:
S. Levy	35594	FED-EX		6/30/25	1300	
				07/01/25	1045	

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-35289-1

Login Number: 35289

List Number: 1

Creator: Taylor, Renee

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
Project/Site: Santee Cooper

Job ID: 705-35289-1

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-26
South Carolina	State	98016	06-30-26

1

2

3

4

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END OF REPORT

March 28, 2025

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

Re: ABS Lab Analytical
Work Order: 711428

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 28, 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,

Joanne Harley for
Julie Robinson
Project Manager

Purchase Order: 125915/JM02.08.G01.3/36500
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: 711428 GEL Work Order: 711428

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

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Certificate of Analysis

Report Date: March 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: AG25125 Project: SOOP00119
Sample ID: 711428003 Client ID: SOOP001
Matrix: GW
Collect Date: 24-FEB-25 11:15
Receive Date: 28-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	03/01/25	0140	2758487	1
Chloride		185	3.35	10.0	mg/L		50	TXT1	03/01/25	1947	2758487	2
Sulfate		143	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25135 Project: SOOP00119
Sample ID: 711428004 Client ID: SOOP001
Matrix: GW
Collect Date: 24-FEB-25 10:03
Receive Date: 28-FEB-25
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		81.6	1.34	4.00	mg/L		20	TXT1	03/01/25	2019	2758487	1
Sulfate		257	2.66	8.00	mg/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25170 Project: SOOP00119
Sample ID: 711428005 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 09:34
Receive Date: 28-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"												
Chloride		3.30	0.0670	0.200	mg/L		1	TXT1	03/01/25	0244	2758487	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		53.1	0.665	2.00	mg/L		5	TXT1	03/01/25	2051	2758487	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

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Certificate of Analysis

Report Date: March 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: AG25171 Project: SOOP00119
Sample ID: 711428006 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 09:39
Receive Date: 28-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"												
Chloride		3.31	0.0670	0.200	mg/L		1	TXT1	03/01/25	0316	2758487	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		54.2	0.665	2.00	mg/L		5	TXT1	03/01/25	2123	2758487	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

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Certificate of Analysis

Report Date: March 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: AG25128 Project: SOOP00119
Sample ID: 711428007 Client ID: SOOP001
Matrix: GW
Collect Date: 25-FEB-25 10:36
Receive Date: 28-FEB-25
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		18.1	0.335	1.00	mg/L		5	TXT1	03/01/25	2154	2758487	1
Sulfate		85.6	0.665	2.00	mg/L		5					

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 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: AG25130 Project: SOOP00119
Sample ID: 711428008 Client ID: SOOP001
Matrix: GW
Collect Date: 25-FEB-25 12:45
Receive Date: 28-FEB-25
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Chloride, Liquid "As Received"												
Chloride		482	6.70	20.0	mg/L		100	TXT1	03/03/25	1302	2758487	1
Sulfate		952	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25132 Project: SOOP00119
Sample ID: 711428010 Client ID: SOOP001
Matrix: GW
Collect Date: 25-FEB-25 14:56
Receive Date: 28-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"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	TXT1	03/01/25	0627	2758487	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	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 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: AG25134	Project: SOOP00119
Sample ID: 711428012	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-FEB-25 13:50	
Receive Date: 28-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	U	0.0330	0.0330	0.100	mg/L		1	TXT1	03/01/25	0834	2758487	1
Chloride		343	6.70	20.0	mg/L		100	TXT1	03/02/25	0106	2758487	2
Sulfate		560	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/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 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: AG25141 Project: SOOP00119
Sample ID: 711428015 Client ID: SOOP001
Matrix: GW
Collect Date: 20-FEB-25 14:00
Receive Date: 28-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	0.0775	0.0330	0.100	mg/L		1	TXT1	03/01/25	1217	2758487	1
Chloride		969	16.8	50.0	mg/L		250	TXT1	03/03/25	1334	2758487	2
Sulfate		640	33.3	100	mg/L		250					

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

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Certificate of Analysis

Report Date: March 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: AG25162 Project: SOOP00119
Sample ID: 711428016 Client ID: SOOP001
Matrix: GW
Collect Date: 20-FEB-25 09:07
Receive Date: 28-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	0.0734	0.0330	0.100	mg/L		1	TXT1	03/01/25	0400	2758488	1
Chloride		567	13.4	40.0	mg/L		200	TXT1	03/01/25	1944	2758488	2
Sulfate		444	26.6	80.0	mg/L		200					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25139 Project: SOOP00119
Sample ID: 711428017 Client ID: SOOP001
Matrix: GW
Collect Date: 20-FEB-25 10:12
Receive Date: 28-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		0.796	0.0330	0.100	mg/L		1	TXT1	03/01/25	0431	2758488	1
Chloride		1410	16.8	50.0	mg/L		250	TXT1	03/01/25	2016	2758488	2
Sulfate		798	33.3	100	mg/L		250					

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 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: AG25140 Project: SOOP00119
Sample ID: 711428018 Client ID: SOOP001
Matrix: GW
Collect Date: 20-FEB-25 10:17
Receive Date: 28-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		0.805	0.0330	0.100	mg/L		1	TXT1	03/01/25	0502	2758488	1
Chloride		1390	16.8	50.0	mg/L		250	TXT1	03/01/25	2047	2758488	2
Sulfate		809	33.3	100	mg/L		250					

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 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: AG25160 Project: SOOP00119
Sample ID: 711428019 Client ID: SOOP001
Matrix: GW
Collect Date: 24-FEB-25 12:11
Receive Date: 28-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		0.134	0.0330	0.100	mg/L		1	TXT1	03/01/25	0534	2758488	1
Chloride		173	3.35	10.0	mg/L		50	TXT1	03/01/25	2118	2758488	2
Sulfate		139	6.65	20.0	mg/L		50					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25161 Project: SOOP00119
Sample ID: 711428020 Client ID: SOOP001
Matrix: GW
Collect Date: 24-FEB-25 12:49
Receive Date: 28-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	0.0828	0.0330	0.100	mg/L		1	TXT1	03/01/25	0637	2758488	1
Chloride		63.9	0.670	2.00	mg/L		10	TXT1	03/01/25	2150	2758488	2
Sulfate		61.8	1.33	4.00	mg/L		10					

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

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Certificate of Analysis

Report Date: March 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: AG25138 Project: SOOP00119
Sample ID: 711428021 Client ID: SOOP001
Matrix: GW
Collect Date: 24-FEB-25 13:41
Receive Date: 28-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	0.0992	0.0330	0.100	mg/L		1	TXT1	03/01/25	0811	2758488	1
Chloride		446	6.70	20.0	mg/L		100	TXT1	03/01/25	2324	2758488	2
Sulfate		99.2	13.3	40.0	mg/L		100					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25177 Project: SOOP00119
Sample ID: 711428022 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 10:06
Receive Date: 28-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"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	TXT1	03/01/25	0945	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 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: AG25175 Project: SOOP00119
Sample ID: 711428023 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 10:42
Receive Date: 28-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		0.177	0.0330	0.100	mg/L		1	TXT1	03/01/25	1016	2758488	1
Chloride		70.2	1.34	4.00	mg/L		20	TXT1	03/01/25	2355	2758488	2
Sulfate		257	2.66	8.00	mg/L		20					

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 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: AG25176 Project: SOOP00119
Sample ID: 711428024 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 10:47
Receive Date: 28-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		0.147	0.0330	0.100	mg/L		1	TXT1	03/01/25	1048	2758488	1
Chloride		69.5	1.34	4.00	mg/L		20	TXT1	03/02/25	0027	2758488	2
Sulfate		252	2.66	8.00	mg/L		20					

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 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: AG25148 Project: SOOP00119
Sample ID: 711428025 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 11:49
Receive Date: 28-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		0.132	0.0330	0.100	mg/L		1	TXT1	03/01/25	1119	2758488	1
Chloride		39.0	1.34	4.00	mg/L		20	TXT1	03/02/25	0201	2758488	2
Sulfate		150	2.66	8.00	mg/L		20					

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

Client Sample ID: AG25165 Project: SOOP00119
Sample ID: 711428026 Client ID: SOOP001
Matrix: GW
Collect Date: 26-FEB-25 09:38
Receive Date: 28-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		0.103	0.0330	0.100	mg/L		1	TXT1	03/01/25	1150	2758488	1
Chloride		12.5	0.134	0.400	mg/L		2	TXT1	03/02/25	0232	2758488	2
Sulfate		379	6.65	20.0	mg/L		50	TXT1	03/02/25	0406	2758488	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 Lc/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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Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG25166 Project: SOOP00119
Sample ID: 711428027 Client ID: SOOP001
Matrix: GW
Collect Date: 26-FEB-25 11:55
Receive Date: 28-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"												
Chloride		9.88	0.0670	0.200	mg/L		1	TXT1	03/01/25	1325	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		159	2.66	8.00	mg/L		20	TXT1	03/02/25	0540	2758488	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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Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG25172 Project: SOOP00119
Sample ID: 711428028 Client ID: SOOP001
Matrix: GW
Collect Date: 26-FEB-25 10:55
Receive Date: 28-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	0.0862	0.0330	0.100	mg/L		1	TXT1	03/01/25	1356	2758488	1
Chloride		134	3.35	10.0	mg/L		50	TXT1	03/02/25	0612	2758488	2
Sulfate		358	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

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

Client Sample ID: AG25167 Project: SOOP00119
Sample ID: 711428029 Client ID: SOOP001
Matrix: GW
Collect Date: 26-FEB-25 12:58
Receive Date: 28-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	U	0.0330	0.0330	0.100	mg/L		1	TXT1	03/01/25	1427	2758488	1
Chloride		121	1.68	5.00	mg/L		25	TXT1	03/02/25	0643	2758488	2
Sulfate		310	3.33	10.0	mg/L		25					

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

Client Sample ID: AG25168 Project: SOOP00119
Sample ID: 711428030 Client ID: SOOP001
Matrix: GW
Collect Date: 26-FEB-25 12:40
Receive Date: 28-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"												
Chloride	U	0.0670	0.0670	0.200	mg/L		1	TXT1	03/01/25	1601	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate	U	0.133	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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Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG25169 Project: SOOP00119
Sample ID: 711428031 Client ID: SOOP001
Matrix: GW
Collect Date: 26-FEB-25 13:45
Receive Date: 28-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"												
Chloride		3.22	0.0670	0.200	mg/L		1	TXT1	03/01/25	1633	2758488	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		60.6	0.665	2.00	mg/L		5	TXT1	03/02/25	0817	2758488	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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QC Summary

Report Date: March 28, 2025

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

Contact: Ms. Jeanette Gilmetti
Workorder: 711428

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2758487										
QC1206022215	711428001	DUP									
Chloride		100		101	mg/L	0.137		(0%-20%)	TXT1	03/01/25	17:40
Fluoride	J	0.0474	J	0.0486	mg/L	2.5	^	(+/-0.100)		03/01/25	00:05
Sulfate		98.6		97.3	mg/L	1.28		(0%-20%)		03/01/25	17:40
QC1206022217	711428010	DUP									
Chloride	U	0.0670	U	0.0670	mg/L	N/A				03/01/25	06:59
Fluoride	U	0.0330	U	0.0330	mg/L	N/A					
Sulfate	U	0.133	U	0.133	mg/L	N/A					
QC1206022214	LCS										
Chloride	5.00			4.60	mg/L		91.9	(90%-110%)		02/28/25	23:01
Fluoride	2.50			2.39	mg/L		95.7	(90%-110%)			
Sulfate	10.0			9.40	mg/L		94	(90%-110%)			
QC1206022213	MB										
Chloride			U	0.0670	mg/L					02/28/25	22:29
Fluoride			U	0.0330	mg/L						
Sulfate			U	0.133	mg/L						

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QC Summary

Workorder: 711428

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Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2758487										
QC1206022216	711428001	PS									
Chloride	5.00	5.02		10.2	mg/L		104	(90%-110%)	TXT1	03/01/25	18:11
Fluoride	2.50	J	0.0474	2.42	mg/L		94.8	(90%-110%)		03/01/25	00:36
Sulfate	10.0		4.93	14.5	mg/L		96.1	(90%-110%)		03/01/25	18:11
QC1206022218	711428010	PS									
Chloride	5.00	U	0.000	4.58	mg/L		91.7	(90%-110%)		03/01/25	07:31
Fluoride	2.50	U	0.000	2.43	mg/L		97.1	(90%-110%)			
Sulfate	10.0	U	0.000	9.27	mg/L		92.7	(90%-110%)			
Batch	2758488										
QC1206022221	711428020	DUP									
Chloride		63.9		63.7	mg/L	0.279		(0%-20%)	TXT1	03/01/25	22:21
Fluoride		J	0.0828	J	0.0823	mg/L	0.606	^	(+/-0.100)		03/01/25 07:08
Sulfate		61.8		61.5	mg/L	0.475		(0%-20%)		03/01/25	22:21
QC1206022223	711428026	DUP									
Chloride		12.5		12.3	mg/L	1.75		(0%-20%)		03/02/25	03:04
Fluoride		0.103	J	0.0961	mg/L	7.22	^	(+/-0.100)		03/01/25	12:22
Sulfate		379		377	mg/L	0.575		(0%-20%)		03/02/25	04:38
QC1206022220	LCS										
Chloride	5.00			4.62	mg/L		92.5	(90%-110%)		03/01/25	03:28

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QC Summary

Workorder: 711428

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2758488										
Fluoride	2.50			2.36	mg/L		94.4	(90%-110%)	TXT1	03/01/25	03:28
Sulfate	10.0			9.40	mg/L		94	(90%-110%)			
QC1206022219 MB											
Chloride			U	0.0670	mg/L					03/01/25	02:57
Fluoride			U	0.0330	mg/L						
Sulfate			U	0.133	mg/L						
QC1206022222 711428020 PS											
Chloride	5.00	6.39		11.8	mg/L		108	(90%-110%)		03/01/25	22:53
Fluoride	2.50	J 0.0828		2.45	mg/L		94.8	(90%-110%)		03/01/25	07:39
Sulfate	10.0	6.18		16.0	mg/L		97.8	(90%-110%)		03/01/25	22:53
QC1206022224 711428026 PS											
Chloride	5.00	6.24		11.6	mg/L		107	(90%-110%)		03/02/25	03:35
Fluoride	2.50	0.103		2.44	mg/L		93.4	(90%-110%)		03/01/25	12:53
Sulfate	10.0	7.59		17.5	mg/L		99.4	(90%-110%)		03/02/25	05:09

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

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QC Summary

Workorder: 711428

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID: AG25153 Project: SOOP00119
Sample ID: 711428001 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 12:19
Receive Date: 28-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	0.703	+/-0.550	0.846	1.00	pCi/L		DH1	03/27/25	1313	2761041	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.574	+/-0.346	0.364	1.00	pCi/L		MJ2	03/26/25	1037	2761178	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"			81.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 28, 2025

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

Client Sample ID: AG25129	Project: SOOP00119
Sample ID: 711428002	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-FEB-25 11:42	
Receive Date: 28-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	0.0806	+/-0.401	0.738	1.00	pCi/L		DH1	03/27/25	1313	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.434	+/-0.306	0.377	1.00	pCi/L		MJ2	03/26/25	1037	2761178	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 |

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Report Date: March 28, 2025

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

Client Sample ID: AG25125	Project: SOOP00119
Sample ID: 711428003	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-FEB-25 11:15	
Receive Date: 28-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	0.822	+/-0.597	0.957	1.00	pCi/L		DH1	03/27/25	1313	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.771	+/-0.411	0.419	1.00	pCi/L		MJ2	03/26/25	1107	2761178	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"			78.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Client Sample ID: AG25170	Project: SOOP00119
Sample ID: 711428005	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-25 09:34	
Receive Date: 28-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		1.08	+/-0.609	0.933	1.00	pCi/L			DH1	03/27/25	1313 2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226	U	0.194	+/-0.242	0.403	1.00	pCi/L			MJ2	03/26/25	1107 2761178	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72	(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 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: AG25171	Project: SOOP00119
Sample ID: 711428006	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-25 09:39	
Receive Date: 28-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	0.829	+/-0.594	0.944	1.00	pCi/L		DH1	03/27/25	1313	2761041		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.219	+/-0.252	0.385	1.00	pCi/L		MJ2	03/26/25	1107	2761178		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	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Client Sample ID: AG25131	Project: SOOP00119
Sample ID: 711428009	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-FEB-25 15:21	
Receive Date: 28-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		1.09	+/-0.524	0.747	1.00	pCi/L		DH1	03/27/25	1313	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.37	+/-0.535	0.451	1.00	pCi/L		MJ2	03/26/25	1107	2761178	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"			69.9	(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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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25132	Project: SOOP00119
Sample ID: 711428010	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-FEB-25 14:56	
Receive Date: 28-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		1.12	+/-0.649	0.910	1.00	pCi/L			DH1	03/27/25	1313	2761041	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.153	+/-0.318	0.586	1.00	pCi/L			RS2	03/28/25	1051	2761179	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"			42.3	(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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Company : Santee Cooper
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Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG25133 Project: SOOP00119
Sample ID: 711428011 Client ID: SOOP001
Matrix: GW
Collect Date: 25-FEB-25 13:45
Receive Date: 28-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		1.60	+/-0.679	0.988	1.00	pCi/L		DH1	03/27/25	1313	2761041		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.35	+/-0.731	0.578	1.00	pCi/L		RS2	03/28/25	1051	2761179		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.4	(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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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25134	Project: SOOP00119
Sample ID: 711428012	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-FEB-25 13:50	
Receive Date: 28-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	0.240	+/-0.520	0.915	1.00	pCi/L		DH1	03/27/25	1313	2761041		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.15	+/-0.469	0.519	1.00	pCi/L		RS2	03/28/25	1052	2761179		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Client Sample ID: AG25143 Project: SOOP00119
Sample ID: 711428013 Client ID: SOOP001
Matrix: GW
Collect Date: 20-FEB-25 11:44
Receive Date: 28-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		1.30	+/-0.534	0.681	1.00	pCi/L		DH1	03/27/25	1313	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.91	+/-0.612	0.533	1.00	pCi/L		RS2	03/28/25	1052	2761179	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"			62.3	(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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Company : Santee Cooper
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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25142	Project: SOOP00119
Sample ID: 711428014	Client ID: SOOP001
Matrix: GW	
Collect Date: 20-FEB-25 13:20	
Receive Date: 28-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		1.84	+/-0.609	0.699	1.00	pCi/L		DH1	03/27/25	1313	2761041		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		7.83	+/-1.08	0.456	1.00	pCi/L		RS2	03/28/25	1052	2761179		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	Lc/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: AG25141 Project: SOOP00119
Sample ID: 711428015 Client ID: SOOP001
Matrix: GW
Collect Date: 20-FEB-25 14:00
Receive Date: 28-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		0.768	+/-0.467	0.691	1.00	pCi/L		DH1	03/27/25	1336	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.807	+/-0.377	0.368	1.00	pCi/L		RS2	03/28/25	1052	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.5	(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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Report Date: March 28, 2025

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

Client Sample ID: AG25162	Project: SOOP00119
Sample ID: 711428016	Client ID: SOOP001
Matrix: GW	
Collect Date: 20-FEB-25 09:07	
Receive Date: 28-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	0.626	+/-0.419	0.637	1.00	pCi/L		DH1	03/27/25	1336	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.24	+/-0.575	0.702	1.00	pCi/L		RS2	03/28/25	1052	2761179	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	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Client Sample ID: AG25139	Project: SOOP00119
Sample ID: 711428017	Client ID: SOOP001
Matrix: GW	
Collect Date: 20-FEB-25 10:12	
Receive Date: 28-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		0.752	+/-0.458	0.674	1.00	pCi/L		DH1	03/27/25	1336	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.40	+/-0.641	0.329	1.00	pCi/L		RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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

Client Sample ID: AG25140	Project: SOOP00119
Sample ID: 711428018	Client ID: SOOP001
Matrix: GW	
Collect Date: 20-FEB-25 10:17	
Receive Date: 28-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		1.31	+/-0.541	0.696	1.00	pCi/L		DH1	03/27/25	1336	2761041		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.04	+/-0.449	0.515	1.00	pCi/L		RS2	03/28/25	1131	2761179		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	(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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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25160	Project: SOOP00119
Sample ID: 711428019	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-FEB-25 12:11	
Receive Date: 28-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	0.113	+/-0.375	0.691	1.00	pCi/L		DH1	03/27/25	1336	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.31	+/-0.741	0.708	1.00	pCi/L		RS2	03/28/25	1131	2761179	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor	Lc/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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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25161	Project: SOOP00119
Sample ID: 711428020	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-FEB-25 12:49	
Receive Date: 28-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	-0.173	+/-0.313	0.681	1.00	pCi/L		DH1	03/27/25	1336	2761041	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.515	+/-0.357	0.475	1.00	pCi/L		RS2	03/28/25	1131	2761179	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"			64.9	(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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Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG25138 Project: SOOP00119
Sample ID: 711428021 Client ID: SOOP001
Matrix: GW
Collect Date: 24-FEB-25 13:41
Receive Date: 28-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		1.57	+/-0.518	0.627	1.00	pCi/L		DH1	03/27/25	1336	2761041	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.83	+/-0.573	0.341	1.00	pCi/L		RS2	03/28/25	1131	2761179	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 Lc/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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 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25177	Project: SOOP00119
Sample ID: 711428022	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-25 10:06	
Receive Date: 28-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	0.321	+/-0.433	0.743	1.00	pCi/L		DH1	03/27/25	1337	2761041		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.38	+/-0.502	0.501	1.00	pCi/L		RS2	03/28/25	1131	2761179		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"			57.6	(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 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: AG25175 Project: SOOP00119
Sample ID: 711428023 Client ID: SOOP001
Matrix: GW
Collect Date: 27-FEB-25 10:42
Receive Date: 28-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	0.178	+/-0.437	0.776	1.00	pCi/L			DH1	03/27/25	1336	2761041	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.06	+/-0.467	0.525	1.00	pCi/L			RS2	03/28/25	1131	2761179	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"			84.5	(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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Company : Santee Cooper
 Address : P.O. Box 2946101
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 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25176	Project: SOOP00119
Sample ID: 711428024	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-25 10:47	
Receive Date: 28-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	0.451	+/-0.737	1.28	1.00	pCi/L		DH1	03/28/25	1231	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.0879	+/-0.385	0.745	1.00	pCi/L		RS2	03/28/25	1131	2761179		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"			85.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Report Date: March 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: AG25148	Project: SOOP00119
Sample ID: 711428025	Client ID: SOOP001
Matrix: GW	
Collect Date: 27-FEB-25 11:49	
Receive Date: 28-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	0.485	+/-0.441	0.724	1.00	pCi/L		DH1	03/28/25	1231	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.06	+/-0.491	0.585	1.00	pCi/L		RS2	03/28/25	1213	2761179		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	Lc/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 28, 2025

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

Client Sample ID: AG25165	Project: SOOP00119
Sample ID: 711428026	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-FEB-25 09:38	
Receive Date: 28-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		0.998	+/-0.454	0.601	1.00	pCi/L		DH1	03/28/25	1231	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.832	+/-0.431	0.512	1.00	pCi/L		RS2	03/28/25	1213	2761179		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	(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 28, 2025

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

Client Sample ID: AG25166	Project: SOOP00119
Sample ID: 711428027	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-FEB-25 11:55	
Receive Date: 28-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	0.474	+/-0.333	0.503	1.00	pCi/L		DH1	03/28/25	1231	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.878	+/-0.435	0.443	1.00	pCi/L		RS2	03/28/25	0855	2766323		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"			75.3	(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: March 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: AG25172	Project: SOOP00119
Sample ID: 711428028	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-FEB-25 10:55	
Receive Date: 28-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	0.370	+/-0.342	0.555	1.00	pCi/L		DH1	03/28/25	1231	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.498	+/-0.360	0.513	1.00	pCi/L		RS2	03/28/25	0855	2766323		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	(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 28, 2025

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

Client Sample ID: AG25167	Project: SOOP00119
Sample ID: 711428029	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-FEB-25 12:58	
Receive Date: 28-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		1.19	+/-0.442	0.531	1.00	pCi/L		DH1	03/28/25	1232	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.42	+/-0.593	0.583	1.00	pCi/L		RS2	03/28/25	0855	2766323		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"			70.1	(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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Report Date: March 28, 2025

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

Client Sample ID: AG25168	Project: SOOP00119
Sample ID: 711428030	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-FEB-25 12:40	
Receive Date: 28-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	0.313	+/-0.547	0.952	1.00	pCi/L		DH1	03/28/25	1232	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.300	+/-0.255	0.360	1.00	pCi/L		RS2	03/28/25	0854	2766323		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"			61.7	(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

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Certificate of Analysis

Report Date: March 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: AG25169	Project: SOOP00119
Sample ID: 711428031	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-FEB-25 13:45	
Receive Date: 28-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		0.782	+/-0.511	0.765	1.00	pCi/L		DH1	03/28/25	1232	2761042		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.81	+/-0.681	0.695	1.00	pCi/L		RS2	03/28/25	0854	2766323		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"			54.4	(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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QC Summary

Report Date: March 28, 2025

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

Workorder: 711428

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2761041										
QC1206027592	711428001	DUP									
Radium-228	U	0.703	U	0.521	pCi/L	N/A		N/A	DH1	03/27/25	13:36
	Uncertainty	+/-0.550		+/-0.579							
QC1206027593	LCS										
Radium-228	28.4			23.4	pCi/L		82.3	(75%-125%)		03/27/25	13:36
	Uncertainty			+/-1.81							
QC1206027591	MB										
Radium-228			U	-0.174	pCi/L					03/27/25	13:36
	Uncertainty			+/-0.432							
<hr/>											
Batch	2761042										
QC1206027595	711428024	DUP									
Radium-228	U	0.451	U	0.767	pCi/L	N/A		N/A	DH1	03/28/25	12:31
	Uncertainty	+/-0.737		+/-0.633							
QC1206027596	LCS										
Radium-228	28.4			28.9	pCi/L		102	(75%-125%)		03/28/25	12:31
	Uncertainty			+/-1.60							
QC1206027594	MB										
Radium-228			U	0.0539	pCi/L					03/28/25	12:31
	Uncertainty			+/-0.216							
<hr/>											
Rad Ra-226											
Batch	2761178										
QC1206027857	711428001	DUP									
Radium-226				0.574	pCi/L	28.6		(0% - 100%)	MJ2	03/26/25	11:07
	Uncertainty			+/-0.346							
QC1206027860	LCS										
Radium-226	27.3			25.5	pCi/L		93.5	(75%-125%)		03/26/25	11:40
	Uncertainty			+/-2.25							
QC1206027855	MB										
Radium-226			U	0.126	pCi/L					03/26/25	11:07
	Uncertainty			+/-0.178							

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QC Summary

Workorder: 711428

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Ra-226											
Batch	2761178										
QC1206027859	711428001	MS									
Radium-226	133	0.574		122	pCi/L		91.1	(75%-125%)	MJ2	03/26/25	11:40
	Uncertainty	+/-0.346		+/-10.5							
<hr/>											
Batch	2761179										
QC1206027862	711428010	DUP									
Radium-226	U	0.153		0.395	pCi/L	88.4		(0% - 100%)	RS2	03/28/25	12:13
	Uncertainty	+/-0.318		+/-0.268							
QC1206027864	LCS										
Radium-226	27.1			28.4	pCi/L		105	(75%-125%)		03/28/25	12:13
	Uncertainty			+/-2.02							
QC1206027861	MB										
Radium-226				0.479	pCi/L					03/28/25	12:13
	Uncertainty			+/-0.325							
QC1206027863	711428010	MS									
Radium-226	128 U	0.153		146	pCi/L		114	(75%-125%)		03/28/25	12:13
	Uncertainty	+/-0.318		+/-11.1							
<hr/>											
Batch	2766323										
QC1206046944	711428027	DUP									
Radium-226		0.878		1.24	pCi/L	34.2		(0% - 100%)	RS2	03/28/25	10:12
	Uncertainty	+/-0.435		+/-0.496							
QC1206038663	LCS										
Radium-226	27.2			21.2	pCi/L		78.1	(75%-125%)		03/28/25	10:51
	Uncertainty			+/-1.88							
QC1206038660	MB										
Radium-226			U	0.335	pCi/L					03/28/25	15:10
	Uncertainty			+/-0.328							
QC1206046945	711428027	MS									
Radium-226	136	0.878		113	pCi/L		82	(75%-125%)		03/28/25	15:10
	Uncertainty	+/-0.435		+/-9.40							

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

GEL LABORATORIES LLC

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QC Summary

Workorder: 711428

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

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 #: 711428

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 37

Analytical Batch: 2758487

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
711428001	AG25153
711428002	AG25129
711428003	AG25125
711428004	AG25135
711428005	AG25170
711428006	AG25171
711428007	AG25128
711428008	AG25130
711428009	AG25131
711428010	AG25132
711428011	AG25133
711428012	AG25134
711428013	AG25143
711428014	AG25142
711428015	AG25141
1206022213	Method Blank (MB)
1206022214	Laboratory Control Sample (LCS)
1206022215	711428001(AG25153) Sample Duplicate (DUP)
1206022216	711428001(AG25153) Post Spike (PS)
1206022217	711428010(AG25132) Sample Duplicate (DUP)
1206022218	711428010(AG25132) 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 1206022215 (AG25153DUP), 1206022216 (AG25153PS), 711428001 (AG25153), 711428002 (AG25129), 711428003 (AG25125), 711428004 (AG25135), 711428005 (AG25170), 711428006 (AG25171), 711428007 (AG25128), 711428008 (AG25130), 711428009 (AG25131), 711428011 (AG25133), 711428012 (AG25134), 711428013 (AG25143), 711428014 (AG25142) and 711428015 (AG25141) 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	711428									
	001	002	003	004	005	006	007	008	009	011
Chloride	20X	5X	50X	20X	1X	1X	5X	100X	50X	100X
Sulfate	20X	100X	50X	20X	5X	5X	5X	100X	50X	100X

Analyte	711428			
	012	013	014	015
Chloride	100X	50X	200X	250X
Sulfate	100X	50X	200X	250X

Sample Re-analysis

Samples 711428008 (AG25130) and 711428015 (AG25141) were re-analyzed to verify the results.

Miscellaneous Information

Manual Integrations

Samples 711428014 (AG25142) and 711428015 (AG25141) 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# 37

Analytical Batch: 2758488

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

GEL Sample ID#	Client Sample Identification
711428016	AG25162
711428017	AG25139
711428018	AG25140
711428019	AG25160
711428020	AG25161
711428021	AG25138
711428022	AG25177
711428023	AG25175
711428024	AG25176
711428025	AG25148
711428026	AG25165
711428027	AG25166
711428028	AG25172
711428029	AG25167
711428030	AG25168
711428031	AG25169
1206022219	Method Blank (MB)
1206022220	Laboratory Control Sample (LCS)
1206022221	711428020(AG25161) Sample Duplicate (DUP)
1206022222	711428020(AG25161) Post Spike (PS)
1206022223	711428026(AG25165) Sample Duplicate (DUP)
1206022224	711428026(AG25165) 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 1206022221 (AG25161DUP), 1206022222 (AG25161PS), 1206022223 (AG25165DUP), 1206022224 (AG25165PS), 711428016 (AG25162), 711428017 (AG25139), 711428018 (AG25140), 711428019 (AG25160), 711428020 (AG25161), 711428021 (AG25138), 711428022 (AG25177), 711428023 (AG25175), 711428024 (AG25176), 711428025 (AG25148), 711428026 (AG25165), 711428027 (AG25166), 711428028 (AG25172), 711428029 (AG25167) and 711428031 (AG25169) 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	711428									
	016	017	018	019	020	021	023	024	025	026
Chloride	200X	250X	250X	50X	10X	100X	20X	20X	20X	2X
Sulfate	200X	250X	250X	50X	10X	100X	20X	20X	20X	50X

Analyte	711428			
	027	028	029	031
Chloride	1X	50X	25X	1X
Sulfate	20X	50X	25X	5X

Radiochemistry

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2761041

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
711428001	AG25153
711428002	AG25129
711428003	AG25125
711428005	AG25170
711428006	AG25171
711428009	AG25131
711428010	AG25132
711428011	AG25133
711428012	AG25134
711428013	AG25143
711428014	AG25142
711428015	AG25141
711428016	AG25162
711428017	AG25139

711428018	AG25140
711428019	AG25160
711428020	AG25161
711428021	AG25138
711428022	AG25177
711428023	AG25175
1206027591	Method Blank (MB)
1206027592	711428001(AG25153) Sample Duplicate (DUP)
1206027593	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

1206027592 (AG25153DUP) and 711428001 (AG25153) Aliquots were reduced due to limited sample volume.

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2761042

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
711428024	AG25176
711428025	AG25148
711428026	AG25165
711428027	AG25166
711428028	AG25172
711428029	AG25167
711428030	AG25168
711428031	AG25169
1206027594	Method Blank (MB)
1206027595	711428024(AG25176) Sample Duplicate (DUP)
1206027596	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

1206027595 (AG25176DUP) and 711428024 (AG25176) Aliquots were reduced due to limited sample volume.

Quality Control (QC) Information**RDL Met**

The following RDL was met with rounding.

Sample	Analyte	Value
711428024 (AG25176)	Radium-228	Result 0.451 < MDA 1.28 > 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: 2761178

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
711428001	AG25153
711428002	AG25129
711428003	AG25125
711428005	AG25170
711428006	AG25171
711428009	AG25131
1206027855	Method Blank (MB)
1206027857	711428001(AG25153) Sample Duplicate (DUP)
1206027859	711428001(AG25153) Matrix Spike (MS)
1206027860	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**

1206027859 (AG25153MS) 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: 2761179

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
711428010	AG25132
711428011	AG25133
711428012	AG25134
711428013	AG25143
711428014	AG25142
711428015	AG25141
711428016	AG25162
711428017	AG25139
711428018	AG25140
711428019	AG25160
711428020	AG25161
711428021	AG25138
711428022	AG25177
711428023	AG25175
711428024	AG25176
711428025	AG25148
711428026	AG25165
1206027861	Method Blank (MB)
1206027862	711428010(AG25132) Sample Duplicate (DUP)
1206027863	711428010(AG25132) Matrix Spike (MS)
1206027864	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

Method Blank Criteria

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

Sample	Analyte	Value
1206027861 (MB)	Radium-226	Result: 0.479 pCi/L > MDA: 0.367 pCi/L <= RDL: 1.00 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2766323

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
711428027	AG25166
711428028	AG25172
711428029	AG25167
711428030	AG25168
711428031	AG25169
1206038660	Method Blank (MB)
1206038663	Laboratory Control Sample (LCS)
1206046944	711428027(AG25166) Sample Duplicate (DUP)
1206046945	711428027(AG25166) Matrix Spike (MS)

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

Data Summary:

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

Technical Information

Recounts

Sample 1206046945 (AG25166MS) was recounted due to low recovery. The recount is reported. Sample 1206038660 (MB) was recounted due to a suspected blank false positive. The recount is reported.

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 3/28/25

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 10 / 25

Send report to lwillia@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:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA.WILLIAMS @santeecooper.com

125915 / JMO2.08. GP 1.3 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4	C1, SO4
AG25135	WAP-11	2/24/25	1003		1	P	G	GW	-		0	0	0
AG25170	WLF-A1-4	2/27/25	0934		3				2+ 1		2	1	0
AG25171	WLF-A1-4 DUP		0939		3				2+ 1		2	1	0
AG25128	WAP-6	2/25/25	1036	MDG SB	1						0	0	1
AG25130	WAP-8		1245		1						0	0	1
AG25131	WAP-9		1521		3				2+ 1		2	1	0
	32 WAP-9F		1456		3						2	1	0
	33 WAP-10		1345		3						2	1	0
	34 WAP-10 DUP		1350		3						2	1	0

Nutrients <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur <input type="checkbox"/> USDA	Coal <input type="checkbox"/> Short Prox. <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> GOFER	MISC. <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	Metals (All) <input type="checkbox"/> Ag <input type="checkbox"/> Al <input type="checkbox"/> As <input type="checkbox"/> B <input type="checkbox"/> Ba <input type="checkbox"/> Be <input type="checkbox"/> Ca <input type="checkbox"/> Cd <input type="checkbox"/> Co <input type="checkbox"/> Cr <input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> K <input type="checkbox"/> Li <input type="checkbox"/> Mg <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> Na <input type="checkbox"/> Ni <input type="checkbox"/> Pb <input type="checkbox"/> Sb <input type="checkbox"/> Se <input type="checkbox"/> Sn <input type="checkbox"/> Sr <input type="checkbox"/> Ti <input type="checkbox"/> Tl <input type="checkbox"/> V <input type="checkbox"/> Zn <input type="checkbox"/> Hg <input type="checkbox"/> CrVI <input type="checkbox"/> XRF scan <input type="checkbox"/> RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
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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: _____
<i>[Signature]</i>	36851	<i>[Signature]</i>	GEL	2/28/25	0525	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	<i>[Signature]</i>	2-28-25	1:45	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	

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

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 10 / 25

Send report to lwillia@santecooper.com & sherri.levy@santecooper.com

Chain of Custody



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Run request for any flagged QC

LJUNDA . WILLIAMS @santecooper.com

125915 / JM02.09.GB.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes
AG25143	WAP-14C	2/20/25	1144	ATH DCA	3	P	G	GW	2+	
42	WAP-14B		1320		3					
41	WAP-14A		1400		3					
AG25162	WAP-27		0907		3					
39	WAP-14		1012		3					
40	WAP-14 DUP		1017		3					
AG25160	WAP-28	2/24/25	1211	ATH SB	3				2+	
61	WAP-28R		1249		3					
38	WAP-13		1341		3					

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
<input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TP04 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input type="checkbox"/> SO4	<input type="checkbox"/> Wallboard <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur <input type="checkbox"/> USDA	<input type="checkbox"/> Short Prox. <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUS Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<input type="checkbox"/> Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> GOFER	<input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<input type="checkbox"/> Ag <input type="checkbox"/> Al <input type="checkbox"/> As <input type="checkbox"/> B <input type="checkbox"/> Ba <input type="checkbox"/> Be <input type="checkbox"/> Ca <input type="checkbox"/> Cd <input type="checkbox"/> Co <input type="checkbox"/> Cr <input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> K <input type="checkbox"/> Li <input type="checkbox"/> Mg <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> Na <input type="checkbox"/> Ni <input type="checkbox"/> Pb <input type="checkbox"/> Sb <input type="checkbox"/> Se <input type="checkbox"/> Sn <input type="checkbox"/> Sr <input type="checkbox"/> Ti <input type="checkbox"/> Tl <input type="checkbox"/> V <input type="checkbox"/> Zn <input type="checkbox"/> Hg <input type="checkbox"/> CrVI <input type="checkbox"/> XRF scan <input type="checkbox"/> RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

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:
<i>[Signature]</i>	36851	<i>[Signature]</i>	GEL	2/28/25	0925	
<i>[Signature]</i>		<i>[Signature]</i>	GEL	2/28/25	1545	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	

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

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 10 / 25

Send report to kwillio@santecooper.com & sherrilevy@santecooper.com

Chain of Custody



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

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LUNDA.WILLIAMS

@santecooper.com

125915 / JMO2.08. GP.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic/P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO4
AG25177	WLF-A2-6F	2/27/25	1006	ATH SB	3	P	G	GW	2+ 1		2	1
75	WLF-A2-6		1042		3						2	1
76	WLF-A2-6 DUP		1047		3						2	1
48	WAP-18		1149		2						2	1
AG25165	WPBW-A1-1	2/26/25	0938	BWA SB	3	P	G	GW	2+ 1		2	1
66	WLF-A1-1		1155		3						2	1
72	WLF-A1-5		1055		3						2	1
67	WLF-A1-2		1258		2						2	1
68	WLF-A1-2F		1240		2						2	1
69	WLF-A1-3		1345		3						2	1

Nutrients <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TPO4 <input type="checkbox"/> NH3-N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO2 <input type="checkbox"/> Br <input type="checkbox"/> NO3 <input checked="" type="checkbox"/> SO4	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfites <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur <input type="checkbox"/> USDA	Coal <input type="checkbox"/> Short Prox. <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	Flyash <input type="checkbox"/> Ammonia <input type="checkbox"/> LOI <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	Oil <input type="checkbox"/> Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals (As, Cd, Cr, Ni, Pb, Hg) <input type="checkbox"/> GOFER	MISC. <input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input checked="" type="checkbox"/> Rad 226 <input checked="" type="checkbox"/> Rad 228 <input type="checkbox"/> PCB	<input type="checkbox"/> Metals (All) <input type="checkbox"/> Ag <input type="checkbox"/> Al <input type="checkbox"/> As <input type="checkbox"/> B <input type="checkbox"/> Ba <input type="checkbox"/> Be <input type="checkbox"/> Ca <input type="checkbox"/> Cd <input type="checkbox"/> Co <input type="checkbox"/> Cr <input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> K <input type="checkbox"/> Li <input type="checkbox"/> Mg <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> Na <input type="checkbox"/> Ni <input type="checkbox"/> Pb <input type="checkbox"/> Sb <input type="checkbox"/> Se <input type="checkbox"/> Sn <input type="checkbox"/> Sr <input type="checkbox"/> Ti <input type="checkbox"/> Tl <input type="checkbox"/> V <input type="checkbox"/> Zn <input type="checkbox"/> Hg <input type="checkbox"/> CrVI <input type="checkbox"/> XRF scan <input type="checkbox"/> RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
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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: _____
<i>[Signature]</i>	36851	<i>[Signature]</i>	GEL	2/28/25	0925	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	2-28-25	1545	

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

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDG/AR/COC/Work Order: 711428 GEL-PM: JR

Received By: CLM Date Received at GEL: 2/28/25

Carrier (Circle Applicable): FedEx Express FedEx Ground UPS Field Services Courier Client Other: IR Temp gun # IR5-23 Daily Calibration Performed (Y)

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radichem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radichem only).
<u>(noice) cooler 1</u>	<u>24</u>				
<u>2</u>	<u>0°</u>				
<u>(noice) 3</u>	<u>17°</u>	<input checked="" type="checkbox"/>			

Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:	
B) Did the client designate the samples are to be received as radioactive?			<input checked="" type="checkbox"/>	If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
C) Did the RSO classify the samples as radioactive?			<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
			<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr	
D) Are there any sample hazards to document?			<input checked="" type="checkbox"/>	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:	
E) Was a SDS received and reviewed by Lab Safety?			<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?		<input checked="" type="checkbox"/>		Preservation Method: <u>Wet Ice</u> Ice Packs Dry Ice <u>None</u> Other: *all temperatures recorded next to tracking numbers are in Celsius
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Preserved per COC request or list Sample IDs and Containers Affected:
6	Do any samples require Volatile Analysis? (if yes, answer all three additional questions.)		<input checked="" type="checkbox"/>		If Preservation added, Lot#: 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?	<input checked="" type="checkbox"/>			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			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?	<input checked="" type="checkbox"/>			
12	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials mas Date 3/3/25

Continuation Form Required when selected

List of current GEL Certifications as of 28 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

July 29, 2025

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

Re: ABS Lab Analytical
Work Order: 731146

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 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/JM02.08.G01.3/36110
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 731146 GEL Work Order: 731146

The Qualifiers in this report are defined as follows:

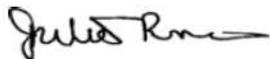
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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 29, 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: AG36881	Project: SOOP00119
Sample ID: 731146001	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-JUN-25 10:58	
Receive Date: 01-JUL-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		2.40	+/-0.585	0.532	1.00	pCi/L		HH3	07/11/25	0938	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		4.86	+/-1.03	0.517	1.00	pCi/L		RS2	07/13/25	0833	2824332		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 29, 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: AG36882	Project: SOOP00119
Sample ID: 731146002	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-JUN-25 11:03	
Receive Date: 01-JUL-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		2.58	+/-0.609	0.691	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.56	+/-0.535	0.535	1.00	pCi/L			RS2	07/13/25	0833	2824332	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"			83.2	(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 29, 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: AG36880	Project: SOOP00119
Sample ID: 731146003	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-JUN-25 13:11	
Receive Date: 01-JUL-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		0.908	+/-0.426	0.582	1.00	pCi/L			HH3	07/11/25	0940 2822944	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.899	+/-0.475	0.507	1.00	pCi/L			RS2	07/13/25	0833 2824332	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"			81.9	(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 29, 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: AG36874	Project: SOOP00119
Sample ID: 731146004	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-JUN-25 14:24	
Receive Date: 01-JUL-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		3.21	+/-0.828	0.985	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.53	+/-0.489	0.356	1.00	pCi/L			RS2	07/13/25	0833	2824332	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"			56.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 29, 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: AG36875	Project: SOOP00119
Sample ID: 731146005	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-JUN-25 15:33	
Receive Date: 01-JUL-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		0.949	+/-0.456	0.659	1.00	pCi/L		HH3	07/11/25	0940	2822944	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.92	+/-0.566	0.319	1.00	pCi/L		RS2	07/13/25	0833	2824332	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"			78.2	(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 29, 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: AG36916	Project: SOOP00119
Sample ID: 731146006	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-JUN-25 09:49	
Receive Date: 01-JUL-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		0.568	+/-0.369	0.557	1.00	pCi/L		HH3	07/11/25	0940	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.27	+/-0.447	0.295	1.00	pCi/L		RS2	07/13/25	0833	2824332		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 29, 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: AG36917	Project: SOOP00119
Sample ID: 731146007	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-JUN-25 09:54	
Receive Date: 01-JUL-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	0.699	+/-0.469	0.733	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.610	+/-0.317	0.292	1.00	pCi/L			RS2	07/13/25	0833	2824332	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"			84.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 29, 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: AG36915	Project: SOOP00119
Sample ID: 731146008	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-JUN-25 11:00	
Receive Date: 01-JUL-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Ra228, Liquid "As Received"												
Radium-228		0.835	+/-0.452	0.654	1.00	pCi/L		HH3	07/11/25	0938	2822944	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.62	+/-0.535	0.335	1.00	pCi/L		RS2	07/13/25	0833	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.7	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor	Lc/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 29, 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: AG36913	Project: SOOP00119
Sample ID: 731146009	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-JUN-25 11:59	
Receive Date: 01-JUL-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		0.729	+/-0.351	0.482	1.00	pCi/L		HH3	07/11/25	0938	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.745	+/-0.516	0.753	1.00	pCi/L		RS2	07/13/25	0905	2824332		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"			80.9	(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 29, 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: AG36918	Project: SOOP00119
Sample ID: 731146010	Client ID: SOOP001
Matrix: GW	
Collect Date: 24-JUN-25 13:04	
Receive Date: 01-JUL-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	0.197	+/-0.400	0.702	1.00	pCi/L		HH3	07/11/25	0938	2822944	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.945	+/-0.423	0.435	1.00	pCi/L		RS2	07/13/25	0905	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.5	(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 29, 2025

Page 1 of 2

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

Contact: Ms. Jeanette Gilmetti
Workorder: 731146

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2822944										
QC1206157292	LCS										
Radium-228	27.5			29.1	pCi/L		106	(75%-125%)	HH3	07/11/25	09:40
	Uncertainty			+/-1.56							
QC1206158814	LCSD										
Radium-228	27.5			33.3	pCi/L	13.7	121	(0%-20%)		07/11/25	09:40
	Uncertainty			+/-1.95							
QC1206157290	MB										
Radium-228				0.798	pCi/L					07/11/25	09:40
	Uncertainty			+/-0.383							
Rad Ra-226											
Batch	2824332										
QC1206159774	731146001	DUP									
Radium-226		4.86		3.77	pCi/L	25.2	*	(0%-20%)	RS2	07/13/25	09:37
	Uncertainty	+/-1.03		+/-0.776							
QC1206159776	LCS										
Radium-226	27.1			26.9	pCi/L		99	(75%-125%)		07/13/25	09:37
	Uncertainty			+/-2.34							
QC1206159773	MB										
Radium-226			U	0.282	pCi/L					07/13/25	09:37
	Uncertainty			+/-0.344							
QC1206159775	731146001	MS									
Radium-226	133	4.86		128	pCi/L		92.4	(75%-125%)		07/13/25	09:37
	Uncertainty	+/-1.03		+/-9.77							

- 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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 731146

Page 2 of 2

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.										
NI	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 #: 731146**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2822944

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
731146001	AG36881
731146002	AG36882
731146003	AG36880
731146004	AG36874
731146005	AG36875
731146006	AG36916
731146007	AG36917
731146008	AG36915
731146009	AG36913
731146010	AG36918
1206157290	Method Blank (MB)
1206157292	Laboratory Control Sample (LCS)
1206158814	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Method Blank Criteria

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

Sample	Analyte	Value
1206157290 (MB)	Radium-228	Result: 0.798 pCi/L > MDA: 0.518 pCi/L <= RDL: 1.00 pCi/L

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2824332

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
731146001	AG36881
731146002	AG36882
731146003	AG36880
731146004	AG36874
731146005	AG36875
731146006	AG36916
731146007	AG36917
731146008	AG36915
731146009	AG36913
731146010	AG36918
1206159773	Method Blank (MB)
1206159774	731146001(AG36881) Sample Duplicate (DUP)
1206159775	731146001(AG36881) Matrix Spike (MS)
1206159776	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
1206159774 (AG36881DUP)	Radium-226	RPD 25.2* (0.00%-20.00%) RER 1.24 (0-3)

Miscellaneous Information

Additional Comments

The matrix spike, 1206159775 (AG36881MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Chain of Custody



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

731146

Customer Email/Report Recipient: _____ Date Results Needed by: _____ Project/Task/Unit #: _____ Run request for any flagged Q

LINDA.WILLIAMS @santecooper.com _____ / _____ / _____ 125915 / JM02.08. G01.3 / 36110 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
AG36881	WAP-10	6/26/25	1058	AGP EA		P	G	GW	2		X
AG36882	WAP-10 DUP		1103								
AG36880	WAP-9		1311								
AG36874	WAP-3		1424								
AG36875	WAP-4		1533								
AG36916	WLF-A1-4	6/24/25	0949								
AG36917	WLF-A1-4 DUP		0954								
AG36915	WLF-A1-3		1100								
AG36913	WLF-A1-1		1159								
AG36918	WLF-A1-5		1304								

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

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:
S. Levy	35594	<i>[Signature]</i>	GEL	7/1/25	0950	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	7-1-25	1625	

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDG/AR/COC/Work Order: _____ GEL PM: _____
 Received By: KE Date Received at GEL: 070125
 Carrier (Circle Applicable):
 FedEx Express FedEx Ground UPS Field Services Courier Client Other: _____
 IR Temp gun # IR1-24 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
<u>COOLEV</u>	<u>2</u>				
<u>COOLEV</u>	<u>22</u>				

Suspected Hazard Information

Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
<input type="checkbox"/>	<input checked="" type="checkbox"/>	COC rotation or radioactive stickers on containers equal client designation
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ Classified as: Rad 1 Rad 2 Rad 3 <u>0</u> (CPM/yr/Hr)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, select Hazards below: PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celsius
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot/ID: _____
6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and tests affected: <u>24 Ammonia test 125 plastic ml</u>
8 Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and containers affected: _____
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments: Dup containers A633120 - Dup and A633676 - Dup do not have times

PM (or PMA) review: Initials KE Date 7/2/25

Continuation Form Required when selected

List of current GEL Certifications as of 29 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

July 29, 2025

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

Re: ABS Lab Analytical
Work Order: 731157

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 01, 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: 731157 GEL Work Order: 731157

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 29, 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: AG36902	Project: SOOP00119
Sample ID: 731157001	Client ID: SOOP001
Matrix: GW	
Collect Date: 26-JUN-25 12:09	
Receive Date: 01-JUL-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	0.493	+/-0.409	0.634	1.00	pCi/L		HH3	07/11/25	0938	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.331	+/-0.342	0.529	1.00	pCi/L		RS2	07/13/25	0905	2824332		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"			65.5	(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 29, 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: AG36872	Project: SOOP00119
Sample ID: 731157002	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 14:22	
Receive Date: 01-JUL-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		1.39	+/-0.563	0.737	1.00	pCi/L		HH3	07/11/25	0940	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.55	+/-0.661	0.401	1.00	pCi/L		RS2	07/13/25	0905	2824332		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"			58.9	(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 29, 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: AG36928	Project: SOOP00119
Sample ID: 731157003	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 14:27	
Receive Date: 01-JUL-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	0.00676	+/-0.497	0.977	1.00	pCi/L		HH3	07/11/25	0940	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.437	+/-0.342	0.483	1.00	pCi/L		RS2	07/13/25	0905	2824332		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"			35.9	(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 29, 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: AG36873	Project: SOOP00119
Sample ID: 731157004	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 15:11	
Receive Date: 01-JUL-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.81	+/-0.652	0.818	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.91	+/-0.760	0.464	1.00	pCi/L			RS2	07/13/25	0905	2824332	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"			58.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 29, 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: AG36911	Project: SOOP00119
Sample ID: 731157005	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 09:47	
Receive Date: 01-JUL-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		1.99	+/-0.527	0.563	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.248	+/-0.304	0.509	1.00	pCi/L			RS2	07/13/25	0905	2824332	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	Lc/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 29, 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: AG36871	Project: SOOP00119
Sample ID: 731157006	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 10:46	
Receive Date: 01-JUL-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	+/-0.504	0.827	1.00	pCi/L		HH3	07/11/25	1121	2822944		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.63	+/-0.616	0.564	1.00	pCi/L		RS2	07/13/25	0905	2824332		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"			63.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 29, 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: AG36878	Project: SOOP00119
Sample ID: 731157007	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 12:15	
Receive Date: 01-JUL-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		1.11	+/-0.515	0.736	1.00	pCi/L			HH3	07/11/25	0938	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.421	+/-0.330	0.466	1.00	pCi/L			RS2	07/13/25	0937	2824332	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"			78	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 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: AG36914	Project: SOOP00119
Sample ID: 731157008	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 13:23	
Receive Date: 01-JUL-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		0.928	+/-0.397	0.493	1.00	pCi/L		HH3	07/11/25	0939	2822944	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.28	+/-0.476	0.430	1.00	pCi/L		RS2	07/13/25	0937	2824332	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"			75.6	(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: July 29, 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: AG36930	Project: SOOP00119
Sample ID: 731157009	Client ID: SOOP001
Matrix: GW	
Collect Date: 25-JUN-25 13:28	
Receive Date: 01-JUL-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		1.07	+/-0.657	0.990	1.00	pCi/L			HH3	07/11/25	0940	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.591	+/-0.408	0.514	1.00	pCi/L			RS2	07/13/25	0937	2824332	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	Lc/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 29, 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: AG36912	Project: SOOP00119
Sample ID: 731157010	Client ID: SOOP001
Matrix: GW	
Collect Date: 23-JUN-25 15:28	
Receive Date: 01-JUL-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	+/-0.540	0.774	1.00	pCi/L			HH3	07/11/25	0939	2822944	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.606	+/-0.363	0.447	1.00	pCi/L			RS2	07/13/25	0937	2824332	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: July 29, 2025

Page 1 of 2

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

Contact: Ms. Jeanette Gilmetti
Workorder: 731157

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2822944										
QC1206157292	LCS										
Radium-228	27.5			29.1	pCi/L		106	(75%-125%)	HH3	07/11/25	09:40
	Uncertainty			+/-1.56							
QC1206158814	LCSD										
Radium-228	27.5			33.3	pCi/L	13.7	121	(0%-20%)		07/11/25	09:40
	Uncertainty			+/-1.95							
QC1206157290	MB										
Radium-228				0.798	pCi/L					07/11/25	09:40
	Uncertainty			+/-0.383							
Rad Ra-226											
Batch	2824332										
QC1206159774	731146001	DUP									
Radium-226		4.86		3.77	pCi/L	25.2 *		(0%-20%)	RS2	07/13/25	09:37
	Uncertainty	+/-1.03		+/-0.776							
QC1206159776	LCS										
Radium-226	27.1			26.9	pCi/L		99	(75%-125%)		07/13/25	09:37
	Uncertainty			+/-2.34							
QC1206159773	MB										
Radium-226			U	0.282	pCi/L					07/13/25	09:37
	Uncertainty			+/-0.344							
QC1206159775	731146001	MS									
Radium-226	133	4.86		128	pCi/L		92.4	(75%-125%)		07/13/25	09:37
	Uncertainty	+/-1.03		+/-9.77							

- 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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 731157

Page 2 of 2

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.										
NI	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 #: 731157**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2822944

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
731157001	AG36902
731157002	AG36872
731157003	AG36928
731157004	AG36873
731157005	AG36911
731157006	AG36871
731157007	AG36878
731157008	AG36914
731157009	AG36930
731157010	AG36912
1206157290	Method Blank (MB)
1206157292	Laboratory Control Sample (LCS)
1206158814	Laboratory Control Sample Duplicate (LCSD)

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

Data Summary:

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

Quality Control (QC) Information

Method Blank Criteria

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

Sample	Analyte	Value
1206157290 (MB)	Radium-228	Result: 0.798 pCi/L > MDA: 0.518 pCi/L <= RDL: 1.00 pCi/L

Technical Information

Recounts

Sample 731157006 (AG36871) was recounted due to results more negative than the three sigma TPU. The second count is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2824332

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
731157001	AG36902
731157002	AG36872
731157003	AG36928
731157004	AG36873
731157005	AG36911
731157006	AG36871
731157007	AG36878
731157008	AG36914
731157009	AG36930
731157010	AG36912
1206159773	Method Blank (MB)
1206159774	731146001(AG36881) Sample Duplicate (DUP)
1206159775	731146001(AG36881) Matrix Spike (MS)
1206159776	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
1206159774 (AG36881DUP)	Radium-226	RPD 25.2* (0.00%-20.00%) RER 1.24 (0-3)

Miscellaneous Information

Additional Comments

The matrix spike, 1206159775 (AG36881MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Chain of Custody



731157

Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JM02.09.GP1-1 / 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	RAD 226/228
AG 36902	WAP-24	6/26/25	1209	AGP EA		P	G	GW	2		X
AG 36872	WAP-2	6/25/25	1422								
AG 36928	WAP-2F		1427								
AG 36873	WAP-2R		1511								
AG 36911	WBW-1		0747								
AG 36871	WAP-1		1046								
AG 36878	WAP-7		1215								
AG 36914	WLF-A1-2	6/25/25	1323								
AG 36930	WLF-A1-2F		1328								
AG 36912	WBW-A1-1	6/23/25	1328								

Water Quality	Coal	Flyash	MISC.
<input type="checkbox"/> Volatile Matter <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI <input type="checkbox"/> Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Short Prox <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Sulfur <input type="checkbox"/> BTUs <input type="checkbox"/> Ultimate <input type="checkbox"/> Volatile Matter <input type="checkbox"/> CHN <input type="checkbox"/> HGI <input type="checkbox"/> Other Analysis: <input type="checkbox"/> Fineness <input type="checkbox"/> Particulate Matter	<input type="checkbox"/> Ammonia <input type="checkbox"/> EOF <input type="checkbox"/> % Carbon <input type="checkbox"/> Mineral Analysis <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture <input type="checkbox"/> NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	<input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> Total Coliform <input type="checkbox"/> pH <input type="checkbox"/> Dissolved As <input type="checkbox"/> Dissolved Fe <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB

Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only)
<i>S. Levy</i>	35594	<i>[Signature]</i>	GEL	7/1/25	0950	TEMP (°C): _____
<i>[Signature]</i>	666	<i>[Signature]</i>	666	7.1.25	1628/650	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,

SAMPLE RECEIPT & REVIEW FORM

Client: GOOP SDG/AR/COC/Work Order: _____ GEL PM: _____
 Received By: KE Date Received at GEL: 07/01/25

Carrier (Circle Applicable) FedEx Express FedEx Ground UPS Field Services Courier Client Other: _____ IR Temp gun # IR1-24 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
<u>COOLEV</u>	<u>2</u>				
<u>COOLEV</u>	<u>22</u>				

Suspected Hazard Information

Yes No *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

A) Shipped as a DOT Hazardous? Yes No Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? Yes No COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Yes No Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Are there any sample hazards to document? Yes No If yes, select Hazards below.
 PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____

E) Was a SDS received and reviewed by Lab Safety? Yes No 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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and tests affected: <u>24 Ammonia test 125 plastic ml</u>
8 Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and containers affected: _____
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments: Dup containers A633120 - dup and A633676 - Dup do not have times

PM (or PMA) review: Initials CR Date 7/2/25

Continuation Form Required when selected

List of current GEL Certifications as of 29 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

Field Data Sheets

(Note: the color coding is to assist field personnel in determining when the well has stabilized enough to begin sample collection.)

Winyah Generating Station						
CCR Groundwater Monitoring Wells						
Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WAP-7	29.94	9.79	15- 25	6/25/2025	1215	26.93
Final GW Depth:	9.74	depth to GW (ft)		7.39	Screen Submerged (ft)?	
Drawdown:	-0.05	ft		0.25	Silt Buildup (ft)	
Ferric Iron:	0	mg/L		24	Tubing Length (ft)	
Ferrous Iron:	0	mg/L				
Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1120	25.14	5.72	218	1190	0	2.02
1125	24.74	5.88	186	1240	0	0.83
1130	24.7	5.92	176	1240	0	0.71
1135	24.48	5.93	169	1250	0	0.64
1140	24.7	5.95	158	1250	0	0.85
1145	24.83	5.97	143	1250	0	0.62
1148	24.71	5.97	127	1260	0	0.56
1151	25.4	5.98	118	1260	0	0.53
1154	24.79	6	106	1260	0	0.53
1157	24.87	6	91	1260	0	0.5
1200	24.83	6.02	79	1270	0	0.49
1203	24.88	6.02	66	1270	0	0.47
1206	24.93	6.03	55	1270	0	0.46
1209	24.96	6.03	47	1280	0	0.45
1212	25.09	6.04	39	1290	0	0.44
1215	24.97	6.05	32	1290	0	0.43
Samples were collected by Ashton Poole and Evan Amick						
Comments/Conditions:						
Formatting Error the values are within conditional formatting standards						

Winyah Generating Station						
Area 1 Class 3 Landfill Groundwater Monitoring Wells						
Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WLF-A1-2	29.21	7.46	12'-22'	6/25/2025	1323	24.64
Final GW Depth:	7.52	depth to GW (ft)		7.07	Screen Submerged (ft)?	
Drawdown:	0.06	ft		-0.11	Silt Buildup (ft)	
Ferric Iron:	0.19	mg/L		18	Tubing Length (ft)	
Ferrous Iron:	0.29	mg/L				
Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1243	31.07	5.91	23	259	0	0.81
1248	29.39	5.61	0	289	0	0.38
1253	28.94	5.71	-39	307	0	0.29
1258	28.3	5.78	-73	399	0	0.26
1303	27.24	5.83	-119	665	0	0.21
1308	27.03	5.88	-138	785	0	0.22
1311	27.58	5.87	-148	820	0	0.21
1314	28	5.87	-153	845	0	0.2
1317	28.09	5.89	-163	889	0	0.2
1320	28.07	5.88	-170	913	0	0.2
1323	28.55	5.88	-178	928	0	0.18
Samples were collected by Ashton Poole and Evan Amick						
Comments/Conditions:						
Field Blanks taken at 1328						

Winyah Generating Station						
Area 1 Class 3 Landfill Groundwater Monitoring Wells						
Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth (ft, bgs)
WLF-A1-2	29.21	5.24	12'-22'	10/29/2025	1339	24.69
Final GW Depth:	5.43	depth to GW (ft)		9.29	Screen Submerged (ft)?	
Drawdown:	0.19	ft		-0.16	Silt Buildup (ft)	
Ferric Iron:	0.25	mg/L		18	Tubing Length (ft)	
Ferrous Iron:	0.21	mg/L				
Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1245	20.65	5.97	131	294	23.9	6.31
1250	20.63	4.87	128	225	34	2.82
1255	20.68	4.91	74	218	12.4	2.43
1300	20.79	4.99	23	237	5.6	2.47
1305	20.79	5.03	-7	259	3.2	1.8
1310	20.84	5.09	-34	271	3	1.45
1315	20.62	5.18	-56	313	1.8	0.99
1318	20.56	5.18	-64	331	1.7	0.95
1321	20.53	5.18	-70	338	2.5	1.04
1324	20.44	5.18	-76	345	1.4	0.93
1327	20.52	5.2	-82	355	1.3	1.05
1330	20.54	5.21	-89	363	1.5	0.96
1333	20.5	5.19	-93	372	1.2	0.8
1336	20.49	5.19	-96	380	1.8	0.78
1339	20.5	5.19	-99	386	2.5	0.8
Samples were collected by Catie Gill and Jordan Rajcok						
Comments/Conditions:						

