

**2025 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
ASH PONDS A AND B
WINYAH GENERATING STATION**

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January 31, 2026

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1. Annual Groundwater Monitoring Report Summary

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

WGS Ash Ponds A and B are two CCR units within the same hydrogeologic system essentially located on an island surrounded by a permitted industrial cooling pond and an intake and discharge canal system. Accordingly, both CCR units are being addressed together in this multiunit Annual Report. In accordance with § 257.90(e)(6), an overview of the current status of groundwater monitoring and corrective action programs for the CCR units is provided below:

At the start of the current annual reporting period (January 1, 2025), Ash Ponds A and B continued groundwater monitoring with the continuing implementation of the corrective action program in accordance with § 257.98. For Ash Pond A's February/March 2025 semi-annual monitoring event, statistically significant levels (SSLs) above the groundwater protection standard (GWPS) for arsenic were identified in monitoring wells WAP-9, WAP-17, WAP-18, and WAP-19; and for lithium in monitoring wells WAP-9, WAP-18, and WAP-19. For Ash Pond A's June/July 2025 semi-annual monitoring event, SSLs above the GWPS for arsenic were again identified in monitoring wells WAP-9, WAP-17, WAP-18, and WAP-19; and for lithium in monitoring wells WAP-9, WAP-18, and WAP-19. For Ash Pond B's February/March 2025 semi-annual monitoring event, a statistically significant level (SSL) above the groundwater protection standard (GWPS) for arsenic was identified in monitoring well WAP-27. For Ash Pond B's June/July 2025 semi-annual monitoring event, an SSL above the GWPS for arsenic was again identified in monitoring well WAP-27.

On April 19, 2019, an assessment of corrective measures and an evaluation of the nature and extent of contamination was initiated per § 257.95(g)(3) and it was completed on September 11, 2019. A public meeting was held on December 10, 2019 to discuss six remedial alternatives per § 257.96. A remedy was selected pursuant to § 257.97 and the remedy selection report was completed on March 31, 2022. An amended remedy report was completed December 4, 2025, to acknowledge dynamic site conditions associated with ongoing ash pond closures and landfill construction, incorporating adaptive management. Remedial activities were initiated in 2022 and are ongoing. At the end of the current annual reporting period (December 31, 2024), Ash Ponds A and B continue to implement the corrective action monitoring program with ongoing ash pond closure activities involving removal of CCR and CCR-contaminated subsurface soils.

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.

Ash Ponds A and B at WGS were surface impoundments historically used for industrial wastewater treatment which, as of April 11, 2021, are no longer receiving CCR or non-CCR waste streams and are undergoing closure by removal of CCR and a layer of subsurface soil. They are subject to the groundwater monitoring and corrective action requirements set forth by the EPA in 40 CFR § 257.90 through § 257.98. This document satisfies the requirement under § 257.90(e) which requires the CCR Unit Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report.

2.2 40 CFR § 257.90(e) - SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report documents the activities completed in 2025 for WGS Ash Ponds A & B as required by the subject regulations. Groundwater sampling and analysis was conducted per the requirements of § 257.93, and the status of the groundwater monitoring program, set forth in § 257.95 and § 257.98, is provided in this report.

2.2.1 Status of the Groundwater Monitoring and Corrective Action Program

As required by § 257.93(h)(2), the initial statistical evaluation of the detected Appendix IV constituents identified SSLs exceeding GWPS, specifically arsenic, lithium, and molybdenum at both Ash Pond A and Ash Pond B. Therefore, an assessment of corrective measures and an evaluation of the nature & extent of contamination was initiated per § 257.95(g)(3). Additional groundwater sampling during the nature & extent evaluation showed that the extent of the SSLs was confined to the uppermost aquifer on-site and did not extend north and east of the Industrial Cooling Pond. An Assessment of Corrective Measures report (ACM) was completed on September 11, 2019, and is posted on the publicly available CCR website. A public meeting was held on December 10, 2019, to discuss the six alternatives presented in the ACM for a remedy per § 257.96(e).

In March 2022, the remedy was selected and implementation began; therefore, the groundwater monitoring program transitioned from assessment to corrective action monitoring. Consistent with

previous results, arsenic and lithium continue to be the only Appendix IV constituents present in groundwater at SSLs above the GWPS. Of note, molybdenum, which was detected above the GWPS during prior sampling events, was not detected at an SSL in 2025 in either Ash Pond A or B. Similarly, lithium, which was detected above the GWPS during prior sampling events, was not detected at an SSL in 2025 in Ash Pond B. Arsenic continues to be detected at an SSL in one or more wells for both ash ponds.

The selected remedial alternative is closure by removal (CBR) of CCR and a layer of subsurface soil followed by monitored natural attenuation (MNA). The removed CCR is currently disposed of in on-site landfills. This remedy eliminates the source through removal, thereby meeting the source control requirement stated in the CCR Rule. Over time, removing the source material and a layer of subsurface contaminated soils allows the concentrations of these constituents in downgradient groundwater to attenuate. The other component of the selected remedy will be to address the continuing presence of arsenic and lithium in Ash Pond A and arsenic in Ash Pond B. As noted earlier, molybdenum was initially detected above the GWPS, but that has not been the case for several years and, as of 2025, lithium is not an SSL in Ash Pond B. To address the limited and local CCR impacts, groundwater remediation is currently being addressed through MNA, which is a viable remedial technology recognized by state and federal regulators that is applicable to inorganic compounds in groundwater. MNA occurs due to naturally occurring processes within the aquifer following source control or removal. MNA, in combination with source removal, is intended to reduce concentrations of arsenic, lithium, and molybdenum in groundwater at the Ash Pond A & B boundary, thereby attaining the groundwater protection standards.

The development of the corrective action groundwater monitoring program for MNA was completed by reevaluating the current groundwater sampling plan. This evaluation concluded that the assessment monitoring protocol currently being implemented was sufficient to meet the needs of the corrective action groundwater monitoring program while source and soil removals continue, which is consistent with § 257.98(a)(1)(i), and thus will continue to be implemented during the regularly scheduled semi-annual groundwater monitoring events. It is anticipated that the corrective action groundwater monitoring program and ongoing success of the selected remedy will be reevaluated once source and soil removals are complete in 2026 to ensure ongoing adequacy or make the necessary revisions. To this means, the amended remedy selection report, which includes MNA as a component of the remedy, incorporates adaptive site management with contingency remedy modification. The adaptive site management approach allows source removals, site remediation, and groundwater monitoring to continue while conducting additional site-specific studies for the MNA process.

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 (2) rounds of groundwater samples (February/March and June/July) in accordance with § 257.95(b) and § 257.95(d)(1) and recorded the concentrations in the facility's

operating record as required by § 257.95(d)(1). Groundwater monitoring results are summarized in Table 1 and laboratory analytical reports are provided in Appendix B.

- Completed statistical evaluation to determine statistically significant exceedances of GWPS for Appendix IV in accordance with § 257.93(h)(2) (Appendix A).
- Updated the statistical upper tolerance limits for background wells WAP-1 and WBW-1 after the first semi-annual sampling event of 2025 in accordance with the Unified Guidance.
- Continued characterization of nature and extent [§ 257.95(g)(1)].
- Continued with potentiometric surface characterization of the uppermost aquifer given changing site conditions by completing sitewide synoptic water level measurements on an approximately quarterly basis to further evaluate temporal changes.
- An updated closure plan was approved by SCDES and uploaded to the CCR Website on October 17, 2025.
- The remedy selection report was amended on December 4, 2025.
- 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 Statistical Data Analysis Plan.

2.2.3 Problems Encountered

No problems were encountered during 2025.

2.2.4 Actions to Resolve Problems

No actions were required during 2025.

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2026 include the following:

- Prepare the 2025 annual report; place it in the record as required by § 257.105(h)(1); notify the Relevant State Director [§ 257.106(d)]; and post to the facility's publicly available website [§ 257.107(d)].
- Conduct semi-annual groundwater monitoring consistent with § 257.98(a)(1) and § 257.95(d)(1).
- Conduct semi-annual statistical analysis of corrective action monitoring analytical data to determine if SSLs of the detected Appendix IV constituents are present above GWPS.
- Continue ongoing characterization of nature and extent, including installation of additional wells if necessary, to further define the contaminant plumes.
- Abandon WAP-23 due to inadequate well construction and because WAP-30 is successfully monitoring vertical delineation.
- Continue field implementation of the remedy including any associated additional groundwater monitoring activities such as additional geochemical analysis, as appropriate.
- Continue improving the 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.

- Continue improving understanding of the dynamic hydraulic environment surrounding Ash Ponds A & B, including an evaluation of installing standpipes and/or completing a transducer study to improve surface water level and groundwater level data collection.
- Removal of CCR material and a layer of contaminated subsurface soil from Ash Ponds A & B will continue and completion of physical closure by removal will be verified.
- 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 40 CFR § 257.90(e)(1)

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

As required by § 257.90(e)(1), a map showing the location of the CCR units and associated upgradient and downgradient monitoring wells for Ash Ponds A and B are presented as Figure 1.

2.3.2 40 CFR § 257.90(e)(2)

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

No groundwater monitoring wells were installed or decommissioned in 2025.

2.3.3 40 CFR § 257.90(e)(3)

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

In accordance with § 257.95(b) and § 257.95(d)(1), two (2) independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection, and monitoring data obtained for the groundwater monitoring program for Ash Ponds A and B is presented in Table 1 of this report. In addition, and in accordance with § 257.95(d)(3), Table 1 includes the groundwater protection standards established under § 257.95(d)(2). Laboratory analytical results, along with field sampling forms, are also provided in Appendix B.

2.3.4 40 CFR § 257.90(e)(4)

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

The groundwater monitoring program transitioned from an assessment monitoring program to the corrective action monitoring program in 2022. A summary of the evolution of the monitoring programs is provided in this section.

As required by § 257.93(h) a statistical analysis of the Appendix III constituents was completed by January 15, 2018. Baseline analytical data collected from background monitoring wells WBW-1 and WAP-1 were combined to develop Upper Tolerance Limits (UTLs). The UTLs for each Appendix III constituent were compared to the analytical results for the downgradient monitoring wells WAP-9, WAP-10, WAP-17, WAP-18, and WAP-19. Constituents with analytical results exceeding the UTLs were identified as statistically significant increases (SSIs) over background for the respective Appendix III constituent. This statistical analysis determined that statistically significant increases of boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids were present downgradient of Ash Ponds A and B. An evaluation of alternate sources was initiated and completed on April 13, 2018, as provided in § 257.94(e)(2). A source causing the SSI over background levels other than the CCR unit was not identified at that time and an assessment monitoring program was initiated on July 16, 2018.

The assessment monitoring program has been established to meet the requirements of § 257.95. As required by § 257.93(h)(2), the statistical evaluation of the detected Appendix IV constituents determined a statistically significant exceedance of groundwater protection standards, specifically for arsenic, lithium, and molybdenum at Ash Ponds A & B. Therefore, per § 257.95(g)(3), an assessment of corrective measures and an evaluation of the nature and extent of contamination was initiated on April 15, 2019. The ACM report was created considering the presence and distribution of arsenic, lithium, and molybdenum, Ash Ponds A and B's configuration and operational history, hydrogeologic setting, and the results of the evaluation of the nature and extent of contamination available at the time of the ACM.

In March 2022, the remedy was selected; therefore, the groundwater monitoring program transitioned from assessment to corrective action monitoring. The development of the corrective action groundwater monitoring program for MNA (a component of the selected remedy) was completed by reevaluating the current groundwater sampling plan. This evaluation concluded that the assessment monitoring protocol currently being implemented was sufficient to meet the needs of the corrective action groundwater monitoring program at this time, which is consistent with § 257.98(a)(1)(i) and thus will continue to be implemented during the regularly scheduled semi-annual groundwater monitoring events. It is anticipated that the corrective action groundwater monitoring program will be reevaluated around the time that source removal is complete in 2026 to ensure ongoing adequacy.

For the February/March 2025 semi-annual monitoring event, statistically significant levels (SSLs) above the groundwater protection standard (GWPS) for arsenic were identified in monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WAP-27; and for lithium in monitoring wells WAP-9, WAP-18, and WAP-19. For the June/July 2025 semi-annual monitoring event, SSLs above the GWPS for arsenic were identified in monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WAP-27; and for lithium in monitoring wells WAP-9, WAP-18, and WAP-19.

2.3.5 40 CFR § 257.90(e)(5)

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

This Annual Report documents activities conducted to comply with Sections § 257.90 through § 257.98 of the CCR Rule.

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

The existing groundwater model was used in 2022 to evaluate how pond closure of WGS Ash Ponds A & B with the construction of the new landfill in the footprint of Ash Pond A may affect groundwater flow direction. The groundwater flow in the vicinity of Ash Ponds A & B and the Class 3 Landfill Area 2 has historically been radial, with groundwater discharge into the surrounding surface water of the Industrial Cooling Pond and the connecting cooling water intake and discharge canals. The model conditions were updated to simulate changes in groundwater flow following closure of a portion of Ash Pond A by the removal of CCR and affected soils, the backfilling with clean soil to provide the required separation between groundwater and the new landfill, and the covering by the Class 3 Landfill Area 2 in 65 acres of the 90-acre footprint of Ash Pond A, with a liner meeting construction standards for a new CCR landfill. Modeled recharge was reduced from 6-inches per year to zero in the Class 3 Landfill area because, by design, rainfall and leachate were prevented from infiltrating into the subsurface due to the liner. Modeled recharge remained 6 inches per year around Ash Pond B and the remaining 25 acres of Ash Pond A because those areas will remain open and will be graded for drainage. The groundwater flow model predicted that as recharge to the surficial aquifer decreases over time as the ash pond is closed and the new Class 3 Landfill is constructed, groundwater flow will shift to the north-northwest. Therefore, Santee Cooper is evaluating installing standpipes and/or completing a transducer study on the south side of the Class 3 Landfill Area 2 adjacent to Ash Pond A to improve surface water level and groundwater level data collection. This will provide the ability to proactively address any potential changes to the groundwater monitoring network for ongoing compliance.

TABLES

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:

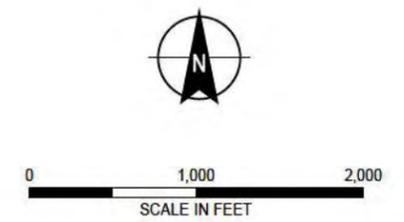
1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SCDES NPDES Permit #SC0037401 and are not used for CCR constituent concentrations.
2. Depth to groundwater is measured below the top of the casing (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



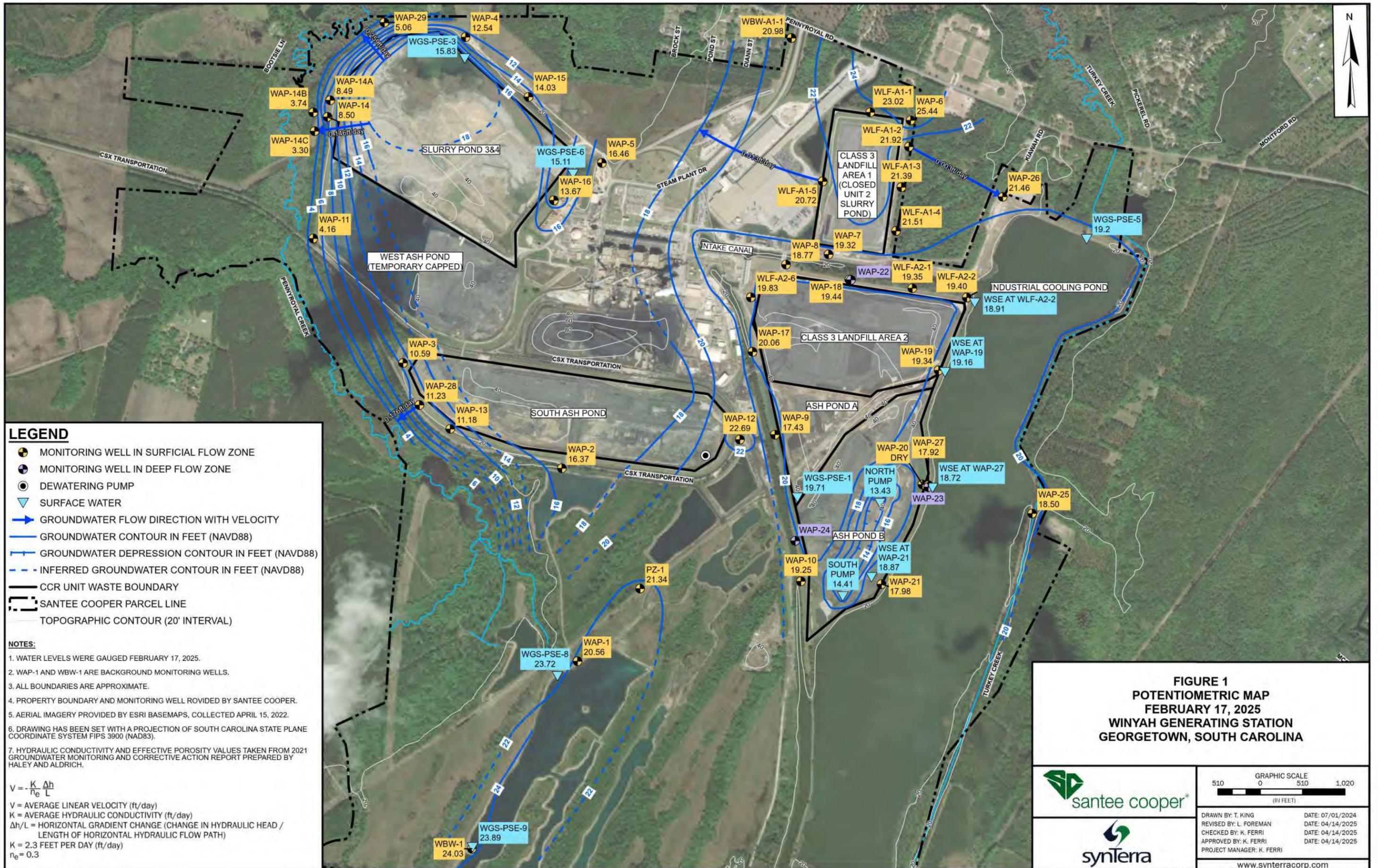
- LEGEND**
- BACKGROUND WELL
 - ASH POND A MONITORING WELL
 - ASH POND B MONITORING WELL
 - ASH PONDS A&B NATURE & EXTENT WELL
 - PROPERTY BOUNDARY WELL
 - CCR UNIT BOUNDARY
 - PROPERTY BOUNDARY
 - POND WATER SURFACE ELEVATION MEASUREMENT LOCATION

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



SANTEE COOPER
 WINYAH GENERATING STATION
 GEORGETOWN, SOUTH CAROLINA

**LOCATION OF ASH PONDS A & B
 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)

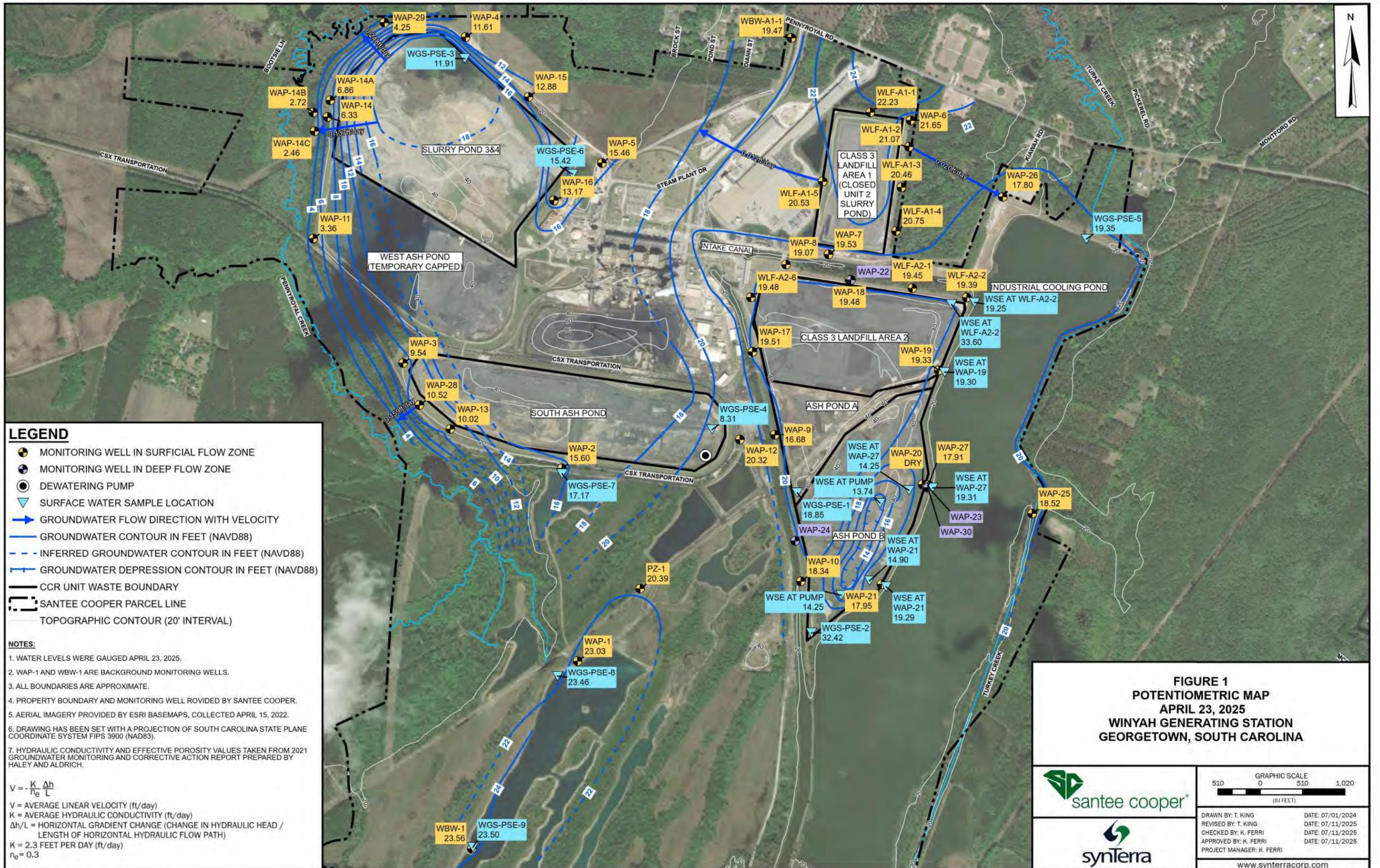
- NOTES:**
1. WATER LEVELS WERE GAUGED FEBRUARY 17, 2025.
 2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
 3. ALL BOUNDARIES ARE APPROXIMATE.
 4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
 5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.
 6. DRAWING HAS 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 0 510 1,020 (IN FEET)
	DRAWN BY: T. KING REVISOR: L. FOREMAN CHECKED BY: K. FERRI APPROVED BY: K. FERRI PROJECT MANAGER: K. FERRI
	www.synTerracorp.com



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:

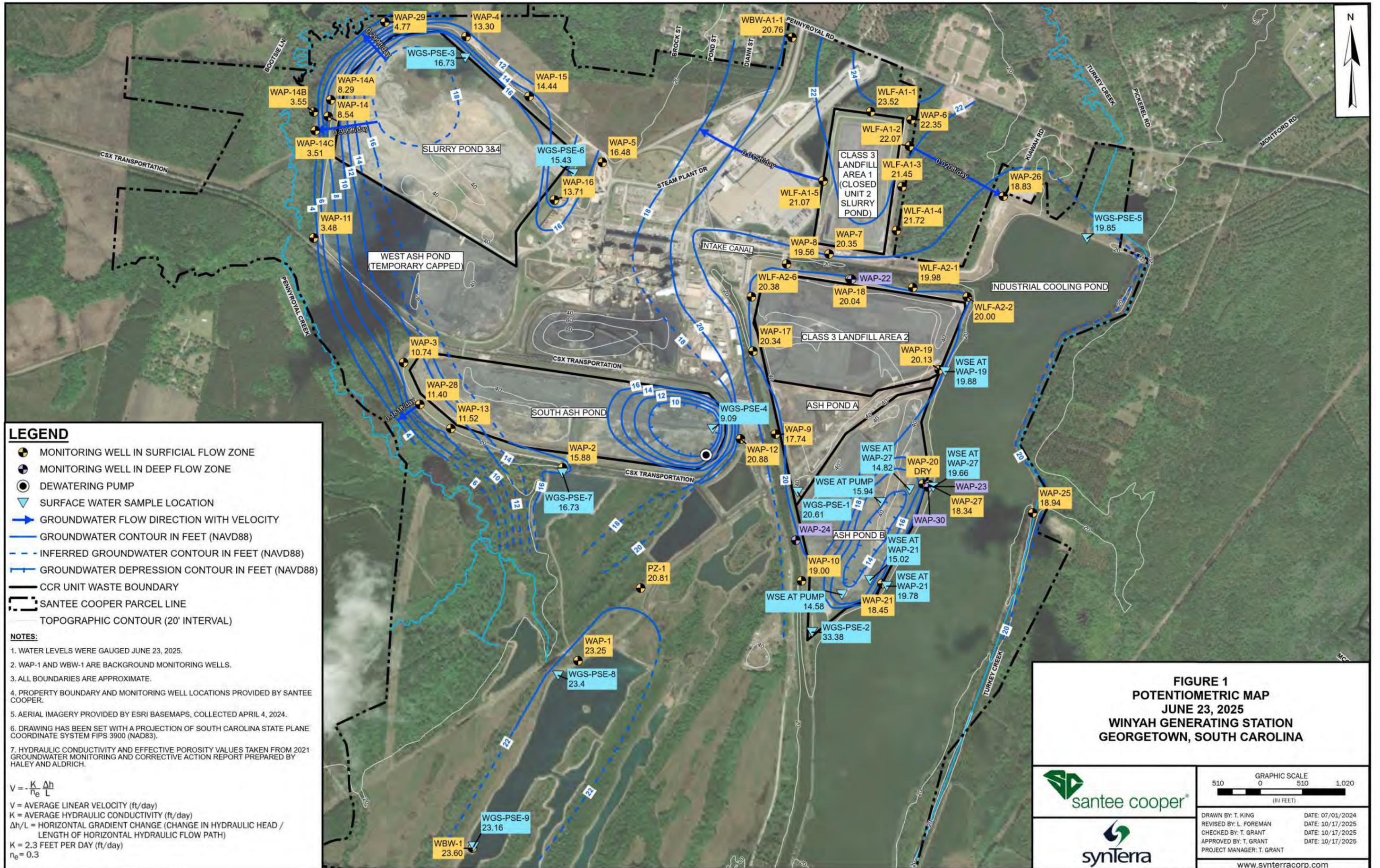
1. WATER LEVELS WERE GAUGED APRIL 23, 2025.
2. WAP-1 AND WBW-1 ARE BACKGROUND MONITORING WELLS.
3. ALL BOUNDARIES ARE APPROXIMATE.
4. PROPERTY BOUNDARY AND MONITORING WELL PROVIDED BY SANTEE COOPER.
5. AERIAL IMAGERY PROVIDED BY ESRI BASEMAPS, COLLECTED APRIL 15, 2022.
6. DRAWING HAS BEEN SET WITH A 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.

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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

	GRAPHIC SCALE 510 0 510 1,020 (IN FEET)
	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
	www.synTerraCorp.com



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 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.

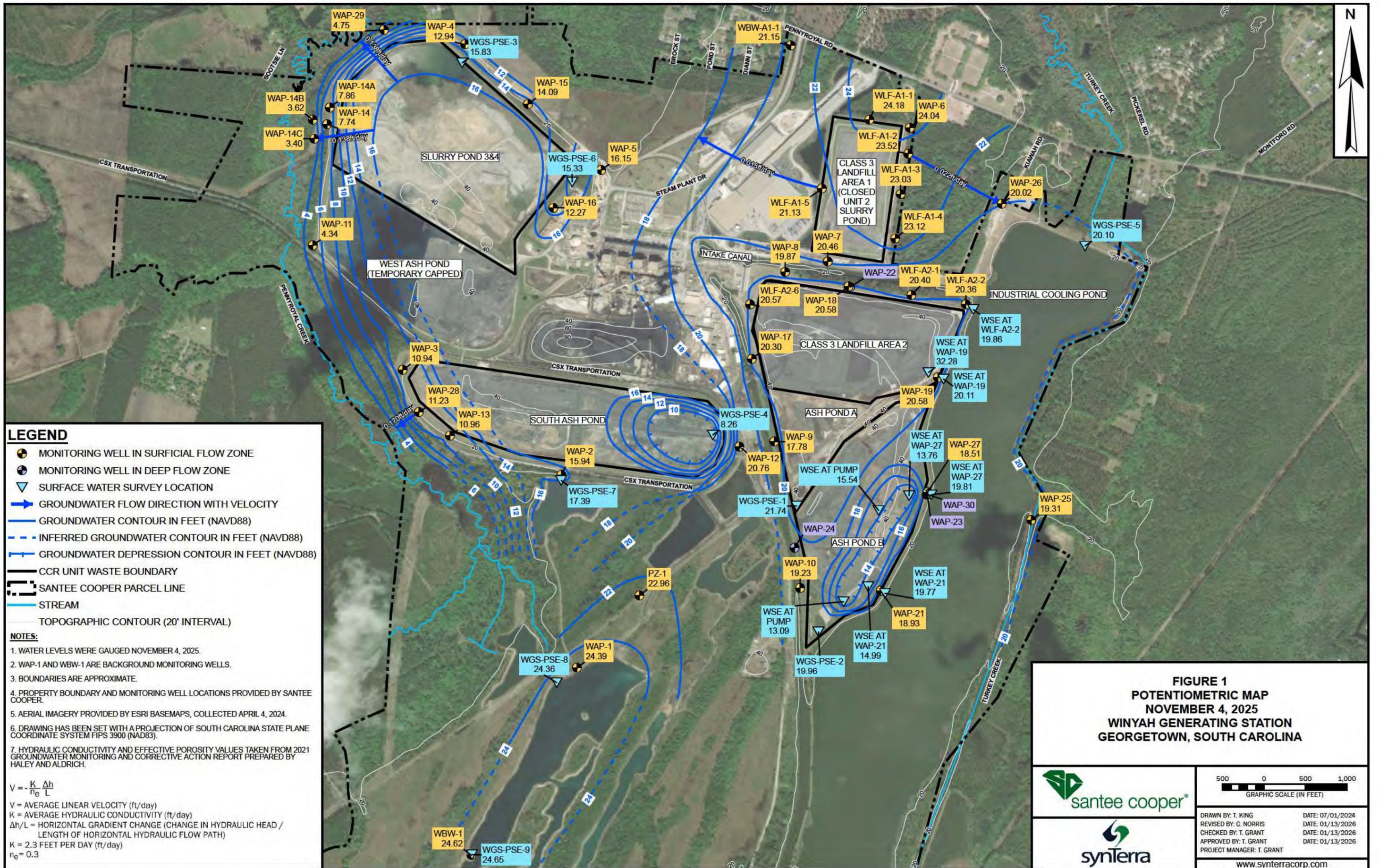
$$v = -\frac{K}{n_e} \frac{\Delta h}{L}$$

v = AVERAGE LINEAR VELOCITY (ft/day)
 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
 JUNE 23, 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: 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.

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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**

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 and March 2025 Semiannual Corrective Action Groundwater Monitoring Data, Winyah Generating Station, Ash Pond A

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93, §257.95, and §257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the February and March 2025 semiannual corrective action monitoring event for Winyah Generating Station (WGS) Ash Pond A. Data for this groundwater sampling event were validated on April 30, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc (Haley & Aldrich).

BACKGROUND

Coal combustion residual (CCR) and non-CCR wastewater inflows to the WGS Ash Pond A ceased prior to the regulatory deadline of April 11, 2021. The unit has completed closure-by-removal of the CCR material as the first step in groundwater remediation as outlined in the *Remedy Selection Report* dated March 30, 2022. During previous groundwater sampling events, assessment monitoring identified the presence of arsenic, lithium, and molybdenum in one or more downgradient wells at a statistically significant level (SSL) above the Groundwater Protection Standards (GWPS).

Recent analytical testing results were evaluated to determine if SSLs exist above the GWPS of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR §257.93(f) (1-4)) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich on October 14, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

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

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

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

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

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2024 and updated in the Statistical Output produced with R programming software (Attachment A). The background dataset will be updated in Table 1 after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on 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 24 downgradient well/constituent datasets that were evaluated for recent trends, 38 percent were stable, and 58 percent were variable with no statistically significant trend. Dynamic site conditions, due to both natural conditions and closure activities, may result in variability in the trends. A recent increasing trend was identified for barium in WAP-9, but the maximum detected value (0.15 milligrams

per liter [mg/L]) remains well below the GWPS (2 mg/L). It is important to note that increasing trends are not part of the comparison criteria for triggering an SSL.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. No outliers were removed. Consistent with previous results, arsenic and lithium remain the only Appendix IV constituents present in groundwater at SSLs above the GWPS, and groundwater monitoring will continue:

- Arsenic SSLs at WAP-9, WAP-17, WAP-18, and WAP-19.
- Lithium SSLs at WAP-9, WAP-18, and WAP-19.
- WAP-17 did not have an SSL for lithium during this sampling event and the event sample concentration was below the GWPS.

While landfill construction within the footprint of a portion of Ash Pond A was completed in December 2022, Ash Pond A closure activities are not yet complete. As closure activities continue in the footprint of Ash Pond A, downgradient groundwater conditions may remain in a state of flux, contributing to potential short-term fluctuations in some of the concentrations of Appendix IV SSLs. The fluctuations are expected to subside once aquifer equilibrium conditions are restored.

Enclosures:

Table 1 – February and March 2025 Semiannual Corrective Action Monitoring Data
(WGS Ash Pond A)

Attachment A – Statistical Output, February and March 2025

TABLE

TABLE 1
FEBRUARY AND MARCH 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND A)
 WINYAH GENERATING STATION
 ASH POND A

Overall Data Summary											Mann-Kendall Trend ^[a]	Inter-well Analysis									
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances		Assumed Data Distribution	Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>
CCR Appendix IV: Antimony, Total (mg/L)																					
WBW-1	0/21	100%	0.005 - 0.025	0.0060	0.005	0.005	NA	73%	0	1	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	NA	0.006	0.025	NA	NA	
WAP-1	0/21	100%	0.002 - 0.025	0.0058	0.005	0.005	NA	77%	0	1	Not Evaluated		2/18/2025	0.005	No	NA			NA		
WAP-9	1/19	95%	0.002 - 0.025	0.0060	0.005	0.008	0.0065	78%	1	1	Not Evaluated		NA	2/25/2025	0.0065	Yes			No	NA	No
WAP-17	0/20	100%	0.002 - 0.025	0.0059	0.005	0.006	NA	78%	0	1	Not Evaluated		NA	3/4/2025	0.005	No			No	NA	No
WAP-18	0/19	100%	0.002 - 0.025	0.0059	0.005	0.007	NA	79%	0	1	Not Evaluated		NA	2/27/2025	0.005	No			No	NA	No
WAP-19	0/19	100%	0.002 - 0.025	0.0059	0.005	0.007	NA	79%	0	1	Not Evaluated		NA	3/4/2025	0.005	No			No	NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																					
WBW-1	0/23	100%	0.003 - 0.005	0.004	0.005	0.005	NA	20%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	NA	0.0096	0.01	NA	NA	
WAP-1	6/25	76%	0.003 - 0.005	0.005	0.005	0.008	0.0096	28%	0	0	No Trend		2/18/2025	0.005	No	NA			NA		
WAP-9	26/26	0%	NA	0.182	0.180	0.40	0.42	63%	26	0	Stable		Parametric	2/25/2025	0.0443	Yes			Yes	0.136	Yes
WAP-17	25/25	0%	NA	0.121	0.108	0.195	0.24	33%	25	0	Stable		Non-Parametric	3/4/2025	0.0996	Yes			Yes	0.095	Yes
WAP-18	23/23	0%	NA	0.42300	0.249	1.29000	1.53	97%	23	0	Stable		Non-Parametric	2/27/2025	0.117	Yes			Yes	0.137	Yes
WAP-19	23/23	0%	NA	0.13100	0.117	0.253	0.474	72%	23	0	Stable		Non-Parametric	3/4/2025	0.0831	Yes			Yes	0.082	Yes
CCR Appendix IV: Barium, Total (mg/L)																					
WBW-1	23/23	0%	NA	0.0181	0.0150	0.0428	0.0534	62%	0	0	Stable	Non-Parametric (Pooled Background Data)	2/18/2025	0.0161	Yes	NA	2	2	NA	NA	
WAP-1	25/25	0%	NA	0.0422	0.0434	0.0810	0.094	63%	0	0	Stable		2/18/2025	0.0403	Yes	NA			NA		
WAP-9	26/26	0%	NA	0.0812	0.0726	0.1280	0.15	30%	0	0	Increasing		NA	2/25/2025	0.117	Yes			Yes	NA	No
WAP-17	25/25	0%	NA	0.0480	0.0462	0.0691	0.1	33%	0	0	No Trend		NA	3/4/2025	0.0454	Yes			No	NA	No
WAP-18	23/23	0%	NA	0.0969	0.0920	0.1380	0.141	21%	0	0	No Trend		NA	2/27/2025	0.13	Yes			Yes	NA	No
WAP-19	23/23	0%	NA	0.06	0.05	0.10	0.104	35%	0	0	No Trend		NA	3/4/2025	0.0579	Yes			No	NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																					
WBW-1	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0005	No	NA	0.0005	0.004	NA	NA	
WAP-1	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/18/2025	0.0005	No	NA			NA		
WAP-9	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	2/25/2025	0.0005	No			No	NA	No
WAP-17	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	3/4/2025	0.0005	No			No	NA	No
WAP-18	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	2/27/2025	0.0005	No			No	NA	No
WAP-19	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	3/4/2025	0.0005	No			No	NA	No
CCR Appendix IV: Cadmium, Total (mg/L)																					
WBW-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0005	No	NA	0.0005	0.005	NA	NA	
WAP-1	0/24	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/18/2025	0.0005	No	NA			NA		
WAP-9	0/25	100%	0.0005 - 0.004	0.0007	0.0005	0.0017	NA	107%	0	0	Not Evaluated		NA	2/25/2025	0.0005	No			No	NA	No
WAP-17	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	3/4/2025	0.0005	No			No	NA	No
WAP-18	1/19	95%	0.0005 - 0.0005	0.0005	0.0005	0.0005	0.00068	8%	0	0	Not Evaluated		NA	2/27/2025	0.0005	No			No	NA	No
WAP-19	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	3/4/2025	0.0005	No			No	NA	No
CCR Appendix IV: Chromium, Total (mg/L)																					
WBW-1	1/22	96%	0.005 - 0.005	0.005	0.005	0.005	0.005	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	NA	0.005	0.1	NA	NA	
WAP-1	0/24	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		2/18/2025	0.005	No	NA			NA		
WAP-9	0/24	100%	0.005 - 0.01	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated		NA	2/25/2025	0.005	No			No	NA	No
WAP-17	0/20	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		NA	3/4/2025	0.005	No			No	NA	No
WAP-18	0/19	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		NA	2/27/2025	0.005	No			No	NA	No
WAP-19	0/19	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		NA	3/4/2025	0.005	No			No	NA	No

TABLE 1
FEBRUARY AND MARCH 2025 SEMI-ANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND A)
 WINYAH GENERATING STATION
 ASH POND A

Overall Data Summary											Inter-well Analysis											
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>	
CCR Appendix IV: Cobalt, Total (mg/L)																						
WBW-1	8/23	65%	0.0005 - 0.0005	0.0012	0.0005	0.0031	0.00838	148%	1	0	Decreasing	Non-Parametric (Pooled Background Data)	2/18/2025	0.00061	Yes	0.00838	NA	0.006	0.00838	NA	NA	
WAP-1	10/23	57%	0.0005 - 0.0005	0.0007	0.0005	0.0015	0.0016	51%	0	0	Probably Decreasing		2/18/2025	0.00065	Yes		NA			NA		
WAP-9	2/21	91%	0.0005 - 0.0005	0.0005	0.0005	0.0007	0.0009	18%	0	0	No Trend		2/25/2025	0.0009	Yes		No			NA	No	
WAP-17	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		3/4/2025	0.0005	No		No			NA	No	
WAP-18	11/21	48%	0.0005 - 0.0005	0.0010	0.0005	0.0022	0.0033	81%	0	0	Stable		2/27/2025	0.0019	Yes		No			NA	No	
WAP-19	7/22	68%	0.0005 - 0.0005	0.0016	0.0005	0.0059	0.0121	177%	2	0	No Trend		3/4/2025	0.0013	Yes		No			NA	No	
CCR Appendix IV: Fluoride, Total (mg/L)																						
WBW-1	1/24	96%	0.1 - 0.1	0.100	0.100	0.100	0.100	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.1	No	0.14	NA	4	4	NA	NA	
WAP-1	2/24	92%	0.1 - 0.1	0.103	0.100	0.125	0.140	10%	0	0	Not Evaluated		2/18/2025	0.1	No		NA			NA		
WAP-9	2/24	92%	0.1 - 0.1	0.100	0.100	0.10	0.11	2%	0	0	Not Evaluated		2/25/2025	0.1	No		No			NA	No	
WAP-17	12/25	52%	0.066 - 0.1	0.138	0.100	0.246	0.320	44%	0	0	Not Evaluated		3/4/2025	0.066	No		No			NA	No	
WAP-18	17/24	29%	0.1 - 0.1	0.900	0.880	1.980	2.510	82%	0	0	No Trend		2/27/2025	0.132	Yes		No			NA	No	
WAP-19	20/24	17%	0.1 - 0.1	0.240	0.185	0.560	0.600	60%	0	0	No Trend		3/4/2025	0.45	Yes		Yes			NA	No	
CCR Appendix IV: Lead, Total (mg/L)																						
WBW-1	0/22	100%	0.001 - 0.01	0.002	0.001	0.010	NA	121%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.001	No	0.01	NA	0.015	0.015	NA	NA	
WAP-1	4/24	83%	0.001 - 0.01	0.002	0.001	0.004	0.00456	103%	0	0	Not Evaluated		2/18/2025	0.001	No		NA			NA		
WAP-9	0/25	100%	0.001 - 0.05	0.003	0.001	0.003	NA	295%	0	1	Not Evaluated		2/25/2025	0.001	No		No			NA	No	
WAP-17	0/20	100%	0.001 - 0.01	0.002	0.001	0.003	NA	116%	0	0	Not Evaluated		3/4/2025	0.001	No		No			NA	No	
WAP-18	0/19	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated		2/27/2025	0.001	No		No			NA	No	
WAP-19	0/19	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated		3/4/2025	0.001	No		No			NA	No	
CCR Appendix IV: Lithium, Total (mg/L)																						
WBW-1	1/23	96%	0.005 - 0.01	0.0089	0.0100	0.010	0.010	24%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.0116	NA	0.04	0.04	NA	NA	
WAP-1	1/23	96%	0.005 - 0.01	0.009	0.010	0.010	0.0116	26%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA		
WAP-9	23/23	0%	NA	0.076	0.070	0.122	0.130	32%	22	0	No Trend		Parametric	2/25/2025	0.104		Yes			Yes	0.0657	Yes
WAP-17	24/24	0%	NA	0.244	0.215	0.534	0.825	79%	21	0	No Trend		NA	3/4/2025	0.0199		Yes			Yes	NA	No
WAP-18	23/23	0%	NA	0.2160	0.1840	0.4900	0.54	65%	23	0	No Trend		Parametric	2/27/2025	0.0818		Yes			Yes	0.155	Yes
WAP-19	24/24	0%	NA	0.3750	0.2600	0.9550	1.45	81%	24	0	No Trend		Non-Parametric	3/4/2025	0.653		Yes			Yes	0.24	Yes
CCR Appendix IV: Mercury, Total (mg/L)																						
WBW-1	1/21	95%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.0002	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0002	No	0.0002	NA	0.002	0.002	NA	NA	
WAP-1	0/21	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		2/18/2025	0.0002	No		NA			NA		
WAP-9	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		2/25/2025	0.0002	No		No			NA	No	
WAP-17	0/20	100%	0.0002 - 0.00024	0.0002	0.0002	0.0002	NA	4%	0	0	Not Evaluated		3/4/2025	0.0002	No		No			NA	No	
WAP-18	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		2/27/2025	0.0002	No		No			NA	No	
WAP-19	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		3/4/2025	0.0002	No		No			NA	No	
CCR Appendix IV: Molybdenum, Total (mg/L)																						
WBW-1	0/23	100%	0.005 - 0.05	0.011	0.010	0.010	NA	83%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.05	NA	0.1	0.1	NA	NA	
WAP-1	0/23	100%	0.005 - 0.01	0.009	0.010	0.010	NA	26%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA		
WAP-9	9/23	61%	0.005 - 0.01	0.013	0.010	0.03	0.034	64%	0	0	Not Evaluated		2/25/2025	0.005	No		No			NA	No	
WAP-17	22/23	4%	0.005 - 0.005	0.056	0.043	0.106	0.35	122%	2	0	Stable		3/4/2025	0.005	No		No			NA	No	
WAP-18	22/22	0%	NA	0.335	0.150	1.270	2.9	191%	14	0	No Trend		Non-Parametric	2/27/2025	0.121		Yes			Yes	0.09	No
WAP-19	20/22	9%	0.005 - 0.05	0.037	0.039	0.057	0.0947	54%	0	0	Stable		3/4/2025	0.0101	Yes		No			NA	No	

TABLE 1
FEBRUARY AND MARCH 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND A)
 WINYAH GENERATING STATION
 ASH POND A

Overall Data Summary											Mann-Kendall Trend ^[a]	Inter-well Analysis									
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances		Assumed Data Distribution	Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																					
WBW-1	16/23	30%	0 - 4	2.89	4.00	4.33	4.39	51%	0	0	Stable	Non-Parametric (Pooled Background Data)	2/18/2025	1.45	Yes	5.97	5	5.97	NA	NA	
WAP-1	18/23	22%	4-4	3.28	4.00	5.67	5.97	48%	4	0	Stable		2/18/2025	1.88	Yes				NA	NA	
WAP-9	20/23	13%	4-4	3.57	4.00	5.31	5.72	38%	3	0	Stable	NA	2/25/2025	2.46	Yes				No	NA	No
WAP-17	16/23	30%	4-4	2.81	3.05	4.35	5.51	56%	1	0	No Trend	NA	3/4/2025	3.05	Yes				No	NA	No
WAP-18	16/23	30%	4-4	3.09	4.00	4.30	4.46	43%	0	0	Stable	NA	2/27/2025	1.55	Yes				No	NA	No
WAP-19	14/23	39%	4-4	3.19	4.00	4.66	4.94	39%	0	0	No Trend	NA	3/4/2025	1.47	Yes				No	NA	No
CCR Appendix IV: Selenium, Total (mg/L)																					
WBW-1	0/22	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	41%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.01	No	0.02	0.05	0.05	NA	NA	
WAP-1	0/24	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		2/18/2025	0.01	No				NA	NA	
WAP-9	0/25	100%	0.0025 - 0.05	0.012	0.010	0.020	NA	74%	0	0	Not Evaluated	NA	2/25/2025	0.01	No				No	NA	No
WAP-17	0/20	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated	NA	3/4/2025	0.01	No				No	NA	No
WAP-18	0/19	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	43%	0	0	Not Evaluated	NA	2/27/2025	0.01	No				No	NA	No
WAP-19	0/19	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	43%	0	0	Not Evaluated	NA	3/4/2025	0.01	No				No	NA	No
CCR Appendix IV: Thallium, Total (mg/L)																					
WBW-1	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.001	No	0.001	0.002	0.002	NA	NA	
WAP-1	0/21	100%	0.0001 - 0.001	0.001	0.001	0.001	NA	21%	0	0	Not Evaluated		2/18/2025	0.001	No				NA	NA	
WAP-9	0/19	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	2/25/2025	0.001	No				No	NA	No
WAP-17	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	3/4/2025	0.001	No				No	NA	No
WAP-18	0/19	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	2/27/2025	0.001	No				No	NA	No
WAP-19	0/19	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	NA	3/4/2025	0.001	No				No	NA	No

Notes:

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

[b] Interwell Tolerance Limits are calculated from data collected from pooled upgradient well data (WBW-1 and WAP-1) through July 2024. No statistical outlier data points were removed from background datasets.

MCL/RSL: Maximum contaminant level/Regional screening level

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

n: sample count

NA: not applicable

ATTACHMENT A
Statistical Output, February and March 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
Pooled Background	Antimony	mg/L	42	42	100	0.025	0.002	0.00588	0.005	0.0044	74	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-1 (Background)	Antimony	mg/L	21	21	100	0.025	0.002	0.00581	0.005	0.0044	76.5	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-17	Antimony	mg/L	20	20	100	0.025	0.002	0.00585	0.005	0.0046	77.9	0.002 - 0.025	2015-11-11 to 2025-03-04
WAP-18	Antimony	mg/L	19	19	100	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-11 to 2025-02-27
WAP-19	Antimony	mg/L	19	19	100	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-11 to 2025-03-04
WAP-9	Antimony	mg/L	19	18	95	0.025	0.002	0.00597	0.005	0.0047	78.2	0.002 - 0.025	2015-11-11 to 2025-02-25
WBW-1 (Background)	Antimony	mg/L	21	21	100	0.025	0.005	0.00595	0.005	0.0044	73.3	0.005 - 0.025	2015-11-10 to 2025-02-18
Pooled Background	Arsenic	mg/L	48	42	88	0.0096	0.003	0.00496	0.005	0.0013	26.5	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Arsenic	mg/L	25	19	76	0.0096	0.003	0.00541	0.005	0.0015	27.6	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-17	Arsenic	mg/L	25	0	0	0.24	0.0703	0.121	0.108	0.04	33.3	NA	2015-11-11 to 2025-03-04
WAP-18	Arsenic	mg/L	23	0	0	1.53	0.0821	0.423	0.249	0.41	97.1	NA	2015-11-11 to 2025-02-27
WAP-19	Arsenic	mg/L	23	0	0	0.474	0.0159	0.131	0.117	0.095	72.1	NA	2015-11-11 to 2025-03-04
WAP-9	Arsenic	mg/L	26	0	0	0.42	0.0255	0.182	0.18	0.11	62.5	NA	2015-11-11 to 2025-02-25
WBW-1 (Background)	Arsenic	mg/L	23	23	100	0.005	0.003	0.00448	0.005	0.0009	20.1	0.003 - 0.005	2015-11-10 to 2025-02-18
Pooled Background	Barium	mg/L	48	0	0	0.094	0.0058	0.0306	0.0214	0.024	77.9	NA	2015-11-10 to 2025-02-18
WAP-1 (Background)	Barium	mg/L	25	0	0	0.094	0.0058	0.0422	0.0434	0.027	63.2	NA	2015-11-10 to 2025-02-18
WAP-17	Barium	mg/L	25	0	0	0.1	0.023	0.048	0.0462	0.016	32.5	NA	2015-11-11 to 2025-03-04
WAP-18	Barium	mg/L	23	0	0	0.141	0.0683	0.0969	0.092	0.02	20.9	NA	2015-11-11 to 2025-02-27
WAP-19	Barium	mg/L	23	0	0	0.104	0.0359	0.0567	0.0535	0.02	35	NA	2015-11-11 to 2025-03-04
WAP-9	Barium	mg/L	26	0	0	0.15	0.0576	0.0812	0.0726	0.024	29.8	NA	2015-11-11 to 2025-02-25
WBW-1 (Background)	Barium	mg/L	23	0	0	0.0534	0.0072	0.0181	0.015	0.011	62	NA	2015-11-10 to 2025-02-18
Pooled Background	Beryllium	mg/L	42	42	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-17	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-03-04
WAP-18	Beryllium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-02-27
WAP-19	Beryllium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-03-04
WAP-9	Beryllium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-02-25
WBW-1 (Background)	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Cadmium	mg/L	46	46	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Cadmium	mg/L	24	24	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-17	Cadmium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-03-04
WAP-18	Cadmium	mg/L	19	18	95	0.00068	0.0005	0.000509	0.0005	4.1e-05	8.11	0.0005 - 0.0005	2015-11-11 to 2025-02-27
WAP-19	Cadmium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-03-04
WAP-9	Cadmium	mg/L	25	25	100	0.0004	0.0005	0.0007	0.0005	0.00075	107	0.0005 - 0.004	2015-11-11 to 2025-02-25
WBW-1 (Background)	Cadmium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Chromium	mg/L	46	45	98	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Chromium	mg/L	24	24	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
WAP-17	Chromium	mg/L	20	20	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-11 to 2025-03-04
WAP-18	Chromium	mg/L	19	19	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-11 to 2025-02-27
WAP-19	Chromium	mg/L	19	19	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-11 to 2025-03-04
WAP-9	Chromium	mg/L	24	24	100	0.01	0.005	0.00521	0.005	0.001	19.6	0.005 - 0.01	2015-11-11 to 2025-02-25
WBW-1 (Background)	Chromium	mg/L	22	21	95	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
Pooled Background	Cobalt	mg/L	46	28	61	0.00838	0.0005	0.000942	0.0005	0.0013	133	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Cobalt	mg/L	23	13	57	0.0016	0.0005	0.000715	0.0005	0.00036	50.7	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-17	Cobalt	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-03-04
WAP-18	Cobalt	mg/L	21	10	48	0.0033	0.0005	0.000976	0.00054	0.00079	81.3	0.0005 - 0.0005	2015-11-11 to 2025-02-27
WAP-19	Cobalt	mg/L	22	15	68	0.0121	0.0005	0.00155	0.0005	0.0027	177	0.0005 - 0.0005	2015-11-11 to 2025-03-04
WAP-9	Cobalt	mg/L	21	19	90	0.0009	0.0005	0.000527	0.0005	9.2e-05	17.5	0.0005 - 0.0005	2015-11-11 to 2025-02-25
WBW-1 (Background)	Cobalt	mg/L	23	15	65	0.00838	0.0005	0.00117	0.0005	0.0017	148	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Fluoride	mg/L	48	45	94	0.14	0.1	0.101	0.1	0.0071	7.04	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-1 (Background)	Fluoride	mg/L	24	22	92	0.14	0.1	0.103	0.1	0.01	9.71	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-17	Fluoride	mg/L	25	13	52	0.32	0.066	0.138	0.1	0.061	44.3	0.066 - 0.1	2015-11-11 to 2025-03-04
WAP-18	Fluoride	mg/L	24	7	29	2.51	0.1	0.9	0.88	0.74	81.9	0.1 - 0.1	2015-11-11 to 2025-02-27
WAP-19	Fluoride	mg/L	24	4	17	0.6	0.1	0.24	0.185	0.14	60	0.1 - 0.1	2015-11-11 to 2025-03-04
WAP-9	Fluoride	mg/L	24	22	92	0.11	0.1	0.1	0.1	0.002	2.03	0.1 - 0.1	2015-11-11 to 2025-02-25
WBW-1 (Background)	Fluoride	mg/L	24	23	96	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-10 to 2025-02-18
Pooled Background	Lead	mg/L	46	42	91	0.01	0.001	0.00202	0.001	0.0023	112	0.001 - 0.01	2015-11-10 to 2025-02-18
WAP-1 (Background)	Lead	mg/L	24	20	83	0.01	0.001	0.00189	0.001	0.0019	103	0.001 - 0.01	2015-11-10 to 2025-02-18
WAP-17	Lead	mg/L	20	20	100	0.01	0.001	0.00175	0.001	0.002	116	0.001 - 0.01	2015-11-11 to 2025-03-04
WAP-18	Lead	mg/L	19	19	100	0.01	0.001	0.00187	0.001	0.0021	111	0.001 - 0.01	2015-11-11 to 2025-02-27
WAP-19	Lead	mg/L	19	19	100	0.01	0.001	0.00187	0.001	0.0021	111	0.001 - 0.01	2015-11-11 to 2025-03-04
WAP-9	Lead	mg/L	25	25	100	0.05	0.001	0.0033	0.001	0.0097	295	0.001 - 0.05	2015-11-11 to 2025-02-25
WBW-1 (Background)	Lead	mg/L	22	22	100	0.01	0.001	0.00216	0.001	0.0026	121	0.001 - 0.01	2015-11-10 to 2025-02-18
Pooled Background	Lithium	mg/L	46	44	96	0.0116	0.005	0.00884	0.01	0.0022	24.8	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-1 (Background)	Lithium	mg/L	23	22	96	0.0116	0.005	0.00877	0.01	0.0023	26.4	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-17	Lithium	mg/L	24	0	0	0.825	0.012	0.244	0.215	0.19	79.1	NA	2015-11-11 to 2025-03-04

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

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
WAP-18	Lithium	mg/L	23	0	0	0.54	0.05	0.216	0.184	0.14	64.6	NA	2015-11-11 to 2025-02-27
WAP-19	Lithium	mg/L	24	0	0	1.45	0.0733	0.375	0.26	0.3	80.9	NA	2015-11-11 to 2025-03-04
WAP-9	Lithium	mg/L	23	0	0	0.13	0.0374	0.0761	0.07	0.024	31.5	NA	2015-11-11 to 2025-02-25
WBW-1 (Background)	Lithium	mg/L	23	22	96	0.01	0.005	0.00891	0.01	0.0021	23.6	0.005 - 0.01	2015-11-10 to 2025-02-18
Pooled Background	Mercury	mg/L	42	41	98	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-1 (Background)	Mercury	mg/L	21	21	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-17	Mercury	mg/L	20	20	100	0.00024	0.0002	0.000202	0.0002	8.9e-06	4.43	0.0002 - 0.00024	2015-11-11 to 2025-03-04
WAP-18	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-02-27
WAP-19	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-03-04
WAP-9	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-02-25
WBW-1 (Background)	Mercury	mg/L	21	20	95	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
Pooled Background	Molybdenum	mg/L	46	46	100	0.05	0.005	0.00967	0.01	0.0064	66.6	0.005 - 0.05	2015-11-10 to 2025-02-18
WAP-1 (Background)	Molybdenum	mg/L	23	23	100	0.01	0.005	0.0087	0.01	0.0022	25.8	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-17	Molybdenum	mg/L	23	1	4	0.35	0.005	0.0558	0.0431	0.068	122	0.005 - 0.005	2015-11-11 to 2025-03-04
WAP-18	Molybdenum	mg/L	22	0	0	2.9	0.012	0.335	0.15	0.64	191	NA	2015-11-11 to 2025-02-27
WAP-19	Molybdenum	mg/L	22	2	9	0.0947	0.005	0.037	0.0391	0.02	54.3	0.005 - 0.05	2015-11-11 to 2025-03-04
WAP-9	Molybdenum	mg/L	23	14	61	0.034	0.005	0.0128	0.01	0.0082	64.3	0.005 - 0.01	2015-11-11 to 2025-02-25
WBW-1 (Background)	Molybdenum	mg/L	23	23	100	0.05	0.005	0.0107	0.01	0.0088	82.9	0.005 - 0.05	2015-11-10 to 2025-02-18
Pooled Background	Radium-226 & 228	pCi/L	46	12	26	5.97	0	3.08	4	1.5	48.9	0 - 4	2015-11-10 to 2025-02-18
WAP-1 (Background)	Radium-226 & 228	pCi/L	23	5	22	5.97	0.952	3.28	4	1.6	47.6	4 - 4	2015-11-10 to 2025-02-18
WAP-17	Radium-226 & 228	pCi/L	23	7	30	5.51	0.39	2.81	3.05	1.6	55.8	4 - 4	2015-11-11 to 2025-03-04
WAP-18	Radium-226 & 228	pCi/L	23	7	30	4.46	0.802	3.09	4	1.3	42.5	4 - 4	2015-11-11 to 2025-02-27
WAP-19	Radium-226 & 228	pCi/L	23	9	39	4.94	0.842	3.19	4	1.2	38.7	4 - 4	2015-11-11 to 2025-03-04
WAP-9	Radium-226 & 228	pCi/L	23	3	13	5.72	1.05	3.57	4	1.3	37.5	4 - 4	2015-11-11 to 2025-02-25
WBW-1 (Background)	Radium-226 & 228	pCi/L	23	7	30	4.39	0	2.89	4	1.5	50.7	0 - 4	2015-11-10 to 2025-02-18
Pooled Background	Selenium	mg/L	46	46	100	0.02	0.0025	0.011	0.01	0.0043	38.8	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-1 (Background)	Selenium	mg/L	24	24	100	0.02	0.0025	0.0107	0.01	0.004	37.3	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-17	Selenium	mg/L	20	20	100	0.02	0.0025	0.0109	0.01	0.0044	40.4	0.0025 - 0.02	2015-11-11 to 2025-03-04
WAP-18	Selenium	mg/L	19	19	100	0.02	0.0025	0.0114	0.01	0.005	43.3	0.0025 - 0.02	2015-11-11 to 2025-02-27
WAP-19	Selenium	mg/L	19	19	100	0.02	0.0025	0.0114	0.01	0.005	43.3	0.0025 - 0.02	2015-11-11 to 2025-03-04
WAP-9	Selenium	mg/L	25	25	100	0.05	0.0025	0.0121	0.01	0.0089	73.5	0.0025 - 0.05	2015-11-11 to 2025-02-25
WBW-1 (Background)	Selenium	mg/L	22	22	100	0.02	0.0025	0.0112	0.01	0.0046	41	0.0025 - 0.02	2015-11-10 to 2025-02-18
Pooled Background	Thallium	mg/L	42	42	100	0.001	0.0001	0.000979	0.001	0.00014	14.2	0.0001 - 0.001	2015-11-10 to 2025-02-18
WAP-1 (Background)	Thallium	mg/L	21	21	100	0.001	0.0001	0.000957	0.001	0.0002	20.5	0.0001 - 0.001	2015-11-10 to 2025-02-18
WAP-17	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-03-04
WAP-18	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-02-27
WAP-19	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-03-04
WAP-9	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-02-25
WBW-1 (Background)	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-02-18

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

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

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)

Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Antimony	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-17	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Antimony	0.423	1.1e-07	19	18	Not normal
WBW-1 (Background)	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results
Pooled Background	Arsenic	0.543	5.3e-11	48	42	Not normal
WAP-1 (Background)	Arsenic	0.648	1.6e-06	25	19	Not normal
WAP-17	Arsenic	0.857	0.0024	25	0	Not normal
WAP-18	Arsenic	0.754	7.6e-05	23	0	Not normal
WAP-19	Arsenic	0.785	0.00022	23	0	Not normal
WAP-9	Arsenic	0.941	0.15	26	0	Normal
WBW-1 (Background)	Arsenic	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Barium	0.853	2.7e-05	48	0	Not normal
WAP-1 (Background)	Barium	0.940	0.15	25	0	Normal
WAP-17	Barium	0.897	0.016	25	0	Not normal
WAP-18	Barium	0.893	0.018	23	0	Not normal
WAP-19	Barium	0.866	0.0054	23	0	Not normal
WAP-9	Barium	0.827	0.00053	26	0	Not normal
WBW-1 (Background)	Barium	0.747	6.1e-05	23	0	Not normal
Pooled Background	Beryllium	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-17	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-17	Cadmium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Cadmium	0.244	5.3e-09	19	18	Not normal
WAP-19	Cadmium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Cadmium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.133	5.4e-15	46	45	Not normal
WAP-1 (Background)	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-17	Chromium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Chromium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Chromium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Chromium	0.221	7.4e-10	22	21	Not normal
Pooled Background	Cobalt	0.447	6.2e-12	46	28	Not normal
WAP-1 (Background)	Cobalt	0.719	3.4e-05	23	13	Not normal
WAP-17	Cobalt	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-18	Cobalt	0.732	7e-05	21	10	Not normal
WAP-19	Cobalt	0.476	7.8e-08	22	15	Not normal
WAP-9	Cobalt	0.351	1.1e-08	21	19	Not normal
WBW-1 (Background)	Cobalt	0.489	6.8e-08	23	15	Not normal
Pooled Background	Fluoride	0.266	4.1e-14	48	45	Not normal
WAP-1 (Background)	Fluoride	0.321	1.5e-09	24	22	Not normal
WAP-17	Fluoride	0.818	0.00047	25	13	Not normal
WAP-18	Fluoride	0.890	0.014	24	7	Not normal
WAP-19	Fluoride	0.888	0.012	24	4	Not normal
WAP-9	Fluoride	0.323	1.6e-09	24	22	Not normal
WBW-1 (Background)	Fluoride	0.209	2.2e-10	24	23	Not normal
Pooled Background	Lead	0.519	4.5e-11	46	42	Not normal
WAP-1 (Background)	Lead	0.560	2.3e-07	24	20	Not normal
WAP-17	Lead	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Lead	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Lead	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Lead	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Lead	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Lithium	0.616	9.9e-10	46	44	Not normal
WAP-1 (Background)	Lithium	0.611	1.2e-06	23	22	Not normal
WAP-17	Lithium	0.904	0.027	24	0	Not normal
WAP-18	Lithium	0.915	0.052	23	0	Normal
WAP-19	Lithium	0.625	1.2e-06	24	0	Not normal
WAP-9	Lithium	0.944	0.22	23	0	Normal
WBW-1 (Background)	Lithium	0.629	1.9e-06	23	22	Not normal
Pooled Background	Mercury	0.142	2.8e-14	42	41	Not normal
WAP-1 (Background)	Mercury	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-17	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Mercury	0.228	1.4e-09	21	20	Not normal
Pooled Background	Molybdenum	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-17	Molybdenum	0.515	1.2e-07	23	1	Not normal
WAP-18	Molybdenum	0.499	1.3e-07	22	0	Not normal
WAP-19	Molybdenum	0.935	0.16	22	2	Normal
WAP-9	Molybdenum	0.788	0.00025	23	14	Not normal
WBW-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Radium-226 & 228	0.891	0.00045	46	12	Not normal
WAP-1 (Background)	Radium-226 & 228	0.834	0.0014	23	5	Not normal
WAP-17	Radium-226 & 228	0.930	0.11	23	7	Normal
WAP-18	Radium-226 & 228	0.861	0.0043	23	7	Not normal
WAP-19	Radium-226 & 228	0.768	0.00012	23	9	Not normal
WAP-9	Radium-226 & 228	0.951	0.31	23	3	Normal
WBW-1 (Background)	Radium-226 & 228	0.894	0.019	23	7	Not normal

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

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)
Pooled Background	Selenium	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Selenium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-17	Selenium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Selenium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Selenium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-17	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-18	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-19	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-9	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results

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

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
Pooled Background	Antimony	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Antimony	19	18	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Arsenic	48	42	Rosner	3.523, 3.198, 3.478	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Arsenic	25	19	Dixon	0.2826	0.4965	NA	NA	No	No
WAP-17	Arsenic	25	0	Dixon	0.4153	0.08542	NA	NA	No	No
WAP-18	Arsenic	23	0	Dixon	0.3751	0.1971	NA	NA	No	No
WAP-19	Arsenic	23	0	Dixon	0.5813	0	NA	NA	Yes	No
WAP-9	Arsenic	26	0	Rosner	2.1, 2.263, 2.087	NA	2.841, 2.822, 2.802	0	NA	No
WBW-1	Arsenic	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Barium	48	0	Rosner	2.654, 2.329, 2.509	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Barium	25	0	Dixon	0.1511	0.6865	NA	NA	No	No
WAP-17	Barium	25	0	Dixon	0.5071	0.01264	NA	NA	Yes	No
WAP-18	Barium	23	0	Dixon	0.1692	0.7491	NA	NA	No	No
WAP-19	Barium	23	0	Dixon	0.3013	0.4647	NA	NA	No	No
WAP-9	Barium	26	0	Rosner	2.842, 2.66, 2.382	NA	2.841, 2.822, 2.802	1	NA	No
WBW-1	Barium	23	0	Dixon	0.4943	0.02517	NA	NA	Yes	No
Pooled Background	Beryllium	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Cadmium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Cadmium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Cadmium	19	18	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-19	Cadmium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Cadmium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Chromium	46	45	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Chromium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Chromium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Chromium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Chromium	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Cobalt	46	28	Rosner	5.931, 4.175, 3.556	NA	3.094, 3.085, 3.076	3	NA	No
WAP-1	Cobalt	23	13	Dixon	0.1727	0.7719	NA	NA	No	No
WAP-17	Cobalt	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Cobalt	21	10	Dixon	0.4393	0.1011	NA	NA	No	No
WAP-19	Cobalt	22	15	Dixon	0.6724	0	NA	NA	Yes	No
WAP-9	Cobalt	21	19	Dixon	1	0	NA	NA	Yes	No
WBW-1	Cobalt	23	15	Dixon	0.7716	0	NA	NA	Yes	No
Pooled Background	Fluoride	48	45	Rosner	5.396, 6.71, NA	NA	3.112, 3.103, 3.094	2	NA	No
WAP-1	Fluoride	24	22	Dixon	1	0	NA	NA	Yes	No
WAP-17	Fluoride	25	13	Dixon	0.4091	0.09497	NA	NA	No	No
WAP-18	Fluoride	24	7	Dixon	0.2614	0.6344	NA	NA	No	No
WAP-19	Fluoride	24	4	Dixon	0.3	0.444	NA	NA	No	No
WAP-9	Fluoride	24	22	Dixon	1	0	NA	NA	Yes	No
WBW-1	Fluoride	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Lead	46	42	Rosner	3.522, 4.201, 5.53	NA	3.094, 3.085, 3.076	3	NA	No
WAP-1	Lead	24	20	Dixon	0.8333	0	NA	NA	Yes	No
WAP-17	Lead	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Lead	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Lead	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Lead	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Lead	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Lithium	46	44	Rosner	1.754, 1.838, 1.936	NA	3.094, 3.085, 3.076	0	NA	No
WAP-1	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-17	Lithium	24	0	Dixon	0.4854	0.02593	NA	NA	Yes	No
WAP-18	Lithium	23	0	Dixon	0.3022	0.4609	NA	NA	No	No
WAP-19	Lithium	24	0	Dixon	0.5574	0	NA	NA	Yes	No
WAP-9	Lithium	23	0	Dixon	0.2168	0.9369	NA	NA	No	No
WBW-1	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Mercury	42	41	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Mercury	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Mercury	21	20	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Molybdenum	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Molybdenum	23	1	Dixon	0.8314	0	NA	NA	Yes	No
WAP-18	Molybdenum	22	0	Dixon	0.7606	0	NA	NA	Yes	No
WAP-19	Molybdenum	22	2	Dixon	0.48	0.0408	NA	NA	Yes	No
WAP-9	Molybdenum	23	14	Dixon	0.269	0.6272	NA	NA	No	No
WBW-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Radium-226 & 228	46	12	Rosner	2.045, 1.941, 1.89	NA	3.094, 3.085, 3.076	0	NA	No
WAP-1	Radium-226 & 228	23	5	Dixon	0.2022	0.9681	NA	NA	No	No
WAP-17	Radium-226 & 228	23	7	Dixon	0.2939	0.4995	NA	NA	No	No
WAP-18	Radium-226 & 228	23	7	Dixon	0.1074	0.3674	NA	NA	No	No
WAP-19	Radium-226 & 228	23	9	Dixon	0.2165	0.9393	NA	NA	No	No
WAP-9	Radium-226 & 228	23	3	Dixon	0.03741	0.05541	NA	NA	No	No
WBW-1	Radium-226 & 228	23	7	Dixon	0.1449	0.5931	NA	NA	No	No
Pooled Background	Selenium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Selenium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Selenium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)										
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
WAP-18	Selenium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Selenium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Thallium	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall Test

		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									
Mann Kendall Trends		Trends, All Data		Trends, Recent Data		n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
Pooled Background	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0.74	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.765	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0.229	NA	NA	NA	NA	NA
WAP-17	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.779	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0.229	NA	NA	NA	NA	NA
WAP-18	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.793	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	0.229	NA	NA	NA	NA	NA
WAP-19	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.793	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0.229	NA	NA	NA	NA	NA
WAP-9	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	19	1	0.783	NA	NA	NA	NA	8	1	2017-09-18 to 2025-02-25	0.562	NA	NA	NA	NA	NA
WBW-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.733	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Stable	Stable	48	6	0.621	NA	NA	NA	NA	8	3	2022-07-06 to 2025-02-18	0.709	-0.161	0.69	31	-4	
WAP-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	No Trend	25	6	0.65	NA	NA	NA	NA	8	5	2019-05-30 to 2025-02-18	0.521	0.189	0.61	39	5	
WAP-17	Arsenic	Decreasing	Stable	Stable	25	25	0.333	-0.606	0.0000258	100	-181	8	8	2020-02-05 to 2025-03-04	0.256	-0.286	0.386	61.4	-8	
WAP-18	Arsenic	Probably Decreasing	Stable	Stable	23	23	0.971	-0.285	0.0607	93.9	-72	8	8	2019-06-05 to 2025-02-27	0.368	-0.109	0.803	19.7	-3	
WAP-19	Arsenic	Increasing	Stable	Stable	23	23	0.721	0.42	0.00554	99.4	106	8	8	2019-06-06 to 2025-03-04	0.671	-0.327	0.319	68.1	-9	
WAP-9	Arsenic	Decreasing	Stable	Stable	26	26	0.625	-0.748	0.00000096	100	-243	8	8	2019-05-30 to 2025-02-25	0.384	-0.214	0.536	46.4	-6	
WBW-1 (Background)	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.201	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.267	NA	NA	NA	NA	NA
Pooled Background	Barium	Increasing	Stable	Stable	48	48	0.779	0.297	0.00307	99.7	334	8	8	2022-07-06 to 2025-02-18	0.594	-0.5	0.108	89.2	-14	
WAP-1 (Background)	Barium	Increasing	Stable	Stable	25	25	0.632	0.471	0.00107	99.9	141	8	8	2019-05-30 to 2025-02-18	0.256	-0.0364	1	0	-1	
WAP-17	Barium	Decreasing	No Trend	No Trend	25	25	0.325	-0.38	0.00831	99.2	-114	8	8	2020-02-05 to 2025-03-04	0.158	0.214	0.536	46.4	6	
WAP-18	Barium	No Trend	No Trend	No Trend	23	23	0.209	0.0751	0.635	36.5	19	8	8	2019-06-05 to 2025-02-27	0.275	0.143	0.711	28.9	4	
WAP-19	Barium	Stable	No Trend	No Trend	23	23	0.35	-0.0198	0.916	8.4	-5	8	8	2019-06-06 to 2025-03-04	0.357	0.357	0.266	73.4	10	
WAP-9	Barium	No Trend	Increasing	Increasing	26	26	0.298	0.127	0.378	62.2	41	8	8	2019-05-30 to 2025-02-25	0.266	0.714	0.0187	98.1	20	
WBW-1 (Background)	Barium	No Trend	Stable	Stable	23	23	0.62	0.159	0.303	69.7	40	8	8	2019-05-30 to 2025-02-18	0.492	-0.357	0.266	73.4	-10	
Pooled Background	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-17	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0	NA	NA	NA	NA	NA
WAP-18	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	0	NA	NA	NA	NA	NA
WAP-19	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0	NA	NA	NA	NA	NA
WAP-9	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-17	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0	NA	NA	NA	NA	NA
WAP-18	Cadmium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	19	1	0.362	NA	NA	NA	NA	8	1	2017-09-21 to 2025-02-27	0.501	NA	NA	NA	NA	NA
WAP-19	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0	NA	NA	NA	NA	NA

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

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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-9	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.07	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0	NA	NA	NA	NA
WBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	46	1	0.144	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
WAP-17	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0	NA	NA	NA	NA
WAP-18	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	0	NA	NA	NA	NA
WAP-19	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0	NA	NA	NA	NA
WAP-9	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.196	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0	NA	NA	NA	NA
WBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.204	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-18	0.314	NA	NA	NA	NA
Pooled Background	Cobalt	Increasing	Stable	46	18	1.66	0.532	0.00000226	100	439	8	8	2022-07-06 to 2025-02-18	0.556	-0.357	0.266	73.4	-10
WAP-1 (Background)	Cobalt	Increasing	Probably Decreasing	23	10	0.8	0.537	0.00103	99.9	113	8	8	2019-05-30 to 2025-02-18	0.401	-0.571	0.0635	93.7	-16
WAP-17	Cobalt	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-05 to 2025-03-04	0	NA	NA	NA	NA
WAP-18	Cobalt	Increasing	Stable	21	11	1.02	0.575	0.000673	99.9	107	8	8	2019-02-07 to 2025-02-27	0.555	-0.5	0.108	89.2	-14
WAP-19	Cobalt	Increasing	No Trend	22	7	2.04	0.598	0.000529	99.9	102	8	7	2020-02-04 to 2025-03-04	1.22	0.143	0.711	28.9	4
WAP-9	Cobalt	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	21	2	0.545	NA	NA	NA	NA	8	2	2019-02-05 to 2025-02-25	0.663	0.472	0.188	81.2	9
WBW-1 (Background)	Cobalt	Increasing	Decreasing	23	8	1.78	0.517	0.00199	99.8	100	8	8	2019-05-30 to 2025-02-18	1.06	-0.714	0.0187	98.1	-20
Pooled Background	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	48	3	0.338	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	2	0.421	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
WAP-17	Fluoride	Probably Decreasing	Not Evaluated - No detected results.	25	12	0.713	-0.28	0.0696	93	-74	8	0	2020-02-05 to 2025-03-04	0.126	NA	NA	NA	NA
WAP-18	Fluoride	Stable	No Trend	24	17	0.851	-0.147	0.339	66.1	-39	8	2	2019-06-05 to 2025-02-27	2.36	-0.0524	1	0	-1
WAP-19	Fluoride	Increasing	No Trend	24	20	0.662	0.428	0.00443	99.6	115	8	8	2019-06-06 to 2025-03-04	0.515	0.214	0.536	46.4	6
WAP-9	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	24	2	0.286	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-25	0.314	NA	NA	NA	NA
WBW-1 (Background)	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.196	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	46	4	1.12	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0.505	NA	NA	NA	NA
WAP-1 (Background)	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	4	1.06	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.497	NA	NA	NA	NA
WAP-17	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.16	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	1.24	NA	NA	NA	NA
WAP-18	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.11	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	1.13	NA	NA	NA	NA
WAP-19	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.11	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	1.13	NA	NA	NA	NA
WAP-9	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	2.95	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0.497	NA	NA	NA	NA
WBW-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	1.21	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	1.13	NA	NA	NA	NA
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	46	2	0.366	NA	NA	NA	NA	8	1	2022-07-06 to 2025-02-18	0.764	NA	NA	NA	NA
WAP-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.406	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-17	Lithium	Decreasing	No Trend	24	24	0.791	-0.79	0.000000734	100	-218	8	8	2020-02-05 to 2025-03-04	0.602	0.357	0.266	73.4	10
WAP-18	Lithium	Stable	No Trend	23	23	0.646	-0.123	0.428	57.2	-31	8	8	2019-06-05 to 2025-02-27	1.18	0.0714	0.902	9.8	2
WAP-19	Lithium	No Trend	No Trend	24	24	0.809	0.175	0.243	75.7	48	8	8	2020-02-04 to 2025-03-04	0.765	0.286	0.386	61.4	8

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

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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n ₁ detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n ₁ detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-9	Lithium	Probably Decreasing	No Trend	23	23	0.315	-0.285	0.0607	93.9	-72	8	8	2019-05-30 to 2025-02-25	0.427	0.429	0.174	82.6	12
WBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.332	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-18	0.647	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	42	1	0.151	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
WAP-17	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.0443	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0	NA	NA	NA	NA
WAP-18	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	0	NA	NA	NA	NA
WAP-19	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0	NA	NA	NA	NA
WAP-9	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0	NA	NA	NA	NA
WBW-1 (Background)	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	21	1	0.208	NA	NA	NA	NA	8	1	2019-01-23 to 2025-02-18	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.666	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.258	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-17	Molybdenum	Decreasing	Stable	23	22	1.22	-0.32	0.0346	96.5	-81	8	7	2020-02-05 to 2025-03-04	0.688	-0.5	0.108	89.2	-14
WAP-18	Molybdenum	No Trend	No Trend	22	22	1.91	0.273	0.0804	92	63	8	8	2019-02-07 to 2025-02-27	0.314	0.143	0.711	28.9	4
WAP-19	Molybdenum	Stable	Stable	22	20	0.566	-0.026	0.888	11.2	-6	8	7	2019-02-07 to 2025-03-04	0.94	-0.214	0.536	46.4	-6
WAP-9	Molybdenum	Decreasing	Not Evaluated - No detected results.	23	9	0.928	-0.746	0.0000299	100	-172	8	0	2019-05-30 to 2025-02-25	0.37	NA	NA	NA	NA
WBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.829	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.376	NA	NA	NA	NA
Pooled Background	Radium 226 & 228	Stable	Stable	46	34	0.559	-0.141	0.179	82.1	-142	8	8	2022-07-06 to 2025-02-18	0.427	-0.286	0.386	61.4	-8
WAP-1 (Background)	Radium-226 & 228	Stable	Stable	23	18	0.554	-0.19	0.222	77.8	-47	8	8	2019-05-30 to 2025-02-18	0.508	-0.143	0.711	28.9	-4
WAP-17	Radium-226 & 228	Stable	No Trend	23	16	0.614	-0.0826	0.61	39	-20	8	8	2019-05-30 to 2025-03-04	0.439	0.143	0.711	28.9	4
WAP-18	Radium-226 & 228	Stable	Stable	23	16	0.485	-0.173	0.271	72.9	-42	8	8	2019-06-05 to 2025-02-27	0.538	-0.286	0.386	61.4	-8
WAP-19	Radium-226 & 228	No Trend	No Trend	23	14	0.452	0.0856	0.604	39.6	20	8	8	2019-06-06 to 2025-03-04	0.463	0.143	0.711	28.9	4
WAP-9	Radium-226 & 228	Stable	Stable	23	20	0.43	-0.195	0.204	79.6	-49	8	8	2019-05-30 to 2025-02-25	0.416	-0.214	0.536	46.4	-6
WBW-1 (Background)	Radium-226 & 228	Stable	Stable	23	16	0.558	-0.0776	0.631	36.9	-19	8	8	2019-05-30 to 2025-02-18	0.52	-0.0714	0.902	9.8	-2
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.388	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.373	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.524	NA	NA	NA	NA
WAP-17	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.404	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0.524	NA	NA	NA	NA
WAP-18	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.433	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	0.572	NA	NA	NA	NA
WAP-19	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.433	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0.572	NA	NA	NA	NA
WAP-9	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.735	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0.524	NA	NA	NA	NA
WBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.41	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.572	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0.142	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.205	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
WAP-17	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-03-04	0	NA	NA	NA	NA
WAP-18	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-02-27	0	NA	NA	NA	NA
WAP-19	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-04	0	NA	NA	NA	NA

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

		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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-9	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0	NA	NA	NA	NA
WBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA

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

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

Constituent	Units	n	n, non-detects	Interwell Background Data Characterization [a]									Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		Minimum Coverage (%)		
				max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source		UTL calculation method	UTL calculation details
Antimony	mg/L	40	40	0.025	NA	0.00593	0.005	2015-11-10	2024-07-01	0.00446	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Arsenic	mg/L	46	40	0.005	0.0096	0.00496	0.005	2015-11-10	2024-07-01	0.00135	0.271	Increasing	Not normal (Interwell Background)	NA - Original Data	0.0096	Yes	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Barium	mg/L	46	0	NA	0.094	0.0307	0.0214	2015-11-10	2024-07-01	0.0243	0.789	Increasing	Not normal (Interwell Background)	NA - Original Data	0.094	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Beryllium	mg/L	40	40	0.0005	NA	0.0005	0.0005	2015-11-10	2024-07-01	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Cadmium	mg/L	44	44	0.0005	NA	0.0005	0.0005	2015-11-10	2024-07-01	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Chromium	mg/L	44	43	0.005	0.005	0.005	0.005	2015-11-10	2024-07-01	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Cobalt	mg/L	44	28	0.0005	0.00838	0.000956	0.0005	2015-11-10	2024-07-01	0.00128	1.34	Increasing	Not normal (Interwell Background)	NA - Original Data	0.00838	Yes	0.006	0.00838	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Fluoride	mg/L	46	43	0.1	0.14	0.102	0.1	2015-11-10	2024-07-01	0.00729	0.0718	Stable	Not normal (Interwell Background)	NA - Original Data	0.14	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Lead	mg/L	44	40	0.01	0.00456	0.00206	0.001	2015-11-10	2024-07-01	0.00231	1.12	No Trend	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Lithium	mg/L	44	42	0.01	0.0116	0.00901	0.01	2015-11-10	2024-07-01	0.00207	0.23	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.0116	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Mercury	µg/L	40	39	0.0002	0.0002	0.0002	0.0002	2015-11-10	2024-07-01	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Molybdenum	mg/L	44	44	0.05	NA	0.00989	0.01	2015-11-10	2024-07-01	0.00651	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Radium-226 & 228	pCi/L	44	12	4	5.97	3.15	4	2015-11-10	2024-07-01	1.51	0.48	Decreasing	Not normal (Interwell Background)	NA - Original Data	5.97	Yes	5	5.97	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Selenium	mg/L	44	44	0.02	NA	0.011	0.01	2015-11-10	2024-07-01	0.00436	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Thallium	mg/L	40	40	0.001	NA	0.000978	0.001	2015-11-10	2024-07-01	0.000142	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8

Note:
 [a] Interwell background datasets are analyte specific and include data collected from background wells. Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
 [b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.
 [c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.
 Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

Location	Chemical	Units	Confidence Interval (CI) Dataset						CI Calculation [a]					SSL Confirmation		Non-Parametric CI Statistics	
			n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median	
WAP-17	Arsenic	mg/L	25	0.24	0.0703	0.108	0.121	0.0402	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.121	0.095	0.01	Yes, SSL	10000	0.108	
WAP-18	Arsenic	mg/L	23	1.53	0.0821	0.249	0.423	0.411	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	22	0.33	0.137	0.01	Yes, SSL	10000	0.26	
WAP-19	Arsenic	mg/L	23	0.474	0.0199	0.117	0.131	0.0946	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	22	0.125	0.082	0.01	Yes, SSL	10000	0.12	
WAP-9	Arsenic	mg/L	26	0.42	0.0295	0.18	0.182	0.113	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	25	0.228	0.136	0.01	Yes, SSL	NA	NA	
WAP-18	Lithium	mg/L	23	0.54	0.05	0.184	0.216	0.139	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	22	0.276	0.155	0.04	Yes, SSL	NA	NA	
WAP-19	Lithium	mg/L	24	1.45	0.0733	0.26	0.375	0.303	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.29	0.24	0.04	Yes, SSL	10000	0.26	
WAP-9	Lithium	mg/L	23	0.13	0.0374	0.07	0.0761	0.024	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	22	0.0865	0.0657	0.04	Yes, SSL	NA	NA	
WAP-18	Molybdenum	mg/L	22	2.9	0.012	0.15	0.335	0.64	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	21	0.21	0.09	0.10	No	10000	0.1775	

Note:

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

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

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

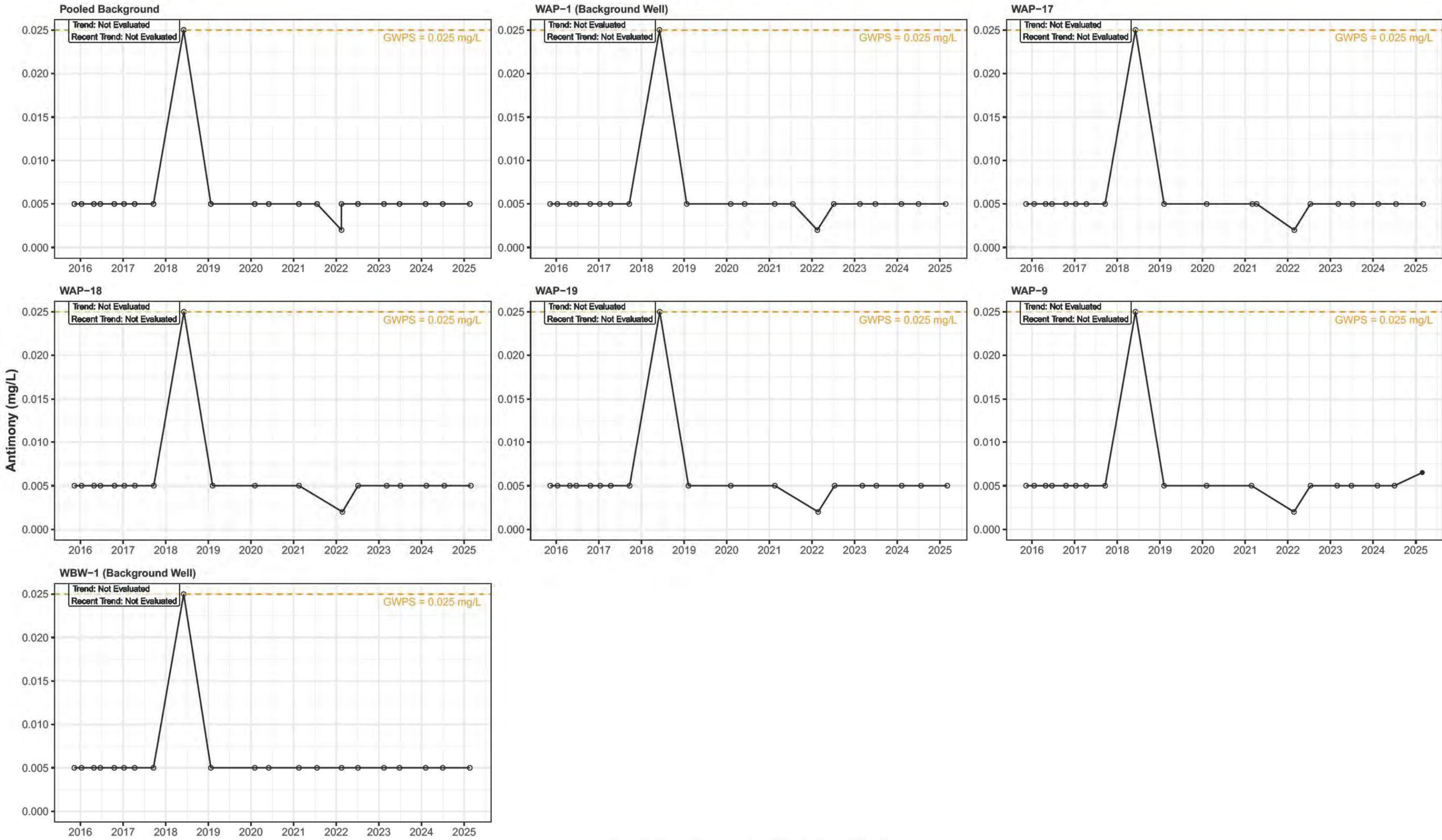
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-17	Arsenic	mg/L	2025-03-04	0.0996	0.0096	0.01	Yes	0.095	Yes
WAP-18	Arsenic	mg/L	2025-02-27	0.117	0.0096	0.01	Yes	0.137	Yes
WAP-19	Arsenic	mg/L	2025-03-04	0.0831	0.0096	0.01	Yes	0.082	Yes
WAP-9	Arsenic	mg/L	2025-02-25	0.0443	0.0096	0.01	Yes	0.136	Yes
WAP-18	Lithium	mg/L	2025-02-27	0.0818	0.0116	0.04	Yes	0.155	Yes
WAP-19	Lithium	mg/L	2025-03-04	0.653	0.0116	0.04	Yes	0.24	Yes
WAP-9	Lithium	mg/L	2025-02-25	0.104	0.0116	0.04	Yes	0.0657	Yes
WAP-1	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-17	Antimony	mg/L	2025-03-04	0.005	0.025	0.025	No	NA	No
WAP-18	Antimony	mg/L	2025-02-27	0.005	0.025	0.025	No	NA	No
WAP-19	Antimony	mg/L	2025-03-04	0.005	0.025	0.025	No	NA	No
WAP-9	Antimony	mg/L	2025-02-25	0.0065	0.025	0.025	No	NA	No
WBW-1	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-1	Arsenic	mg/L	2025-02-18	0.005	0.0096	0.01	No	NA	No
WBW-1	Arsenic	mg/L	2025-02-18	0.005	0.0096	0.01	No	NA	No
WAP-1	Barium	mg/L	2025-02-18	0.0403	0.094	2	No	NA	No
WAP-17	Barium	mg/L	2025-03-04	0.0454	0.094	2	No	NA	No
WAP-18	Barium	mg/L	2025-02-27	0.13	0.094	2	No	NA	No
WAP-19	Barium	mg/L	2025-03-04	0.0579	0.094	2	No	NA	No
WAP-9	Barium	mg/L	2025-02-25	0.117	0.094	2	No	NA	No
WBW-1	Barium	mg/L	2025-02-18	0.0161	0.094	2	No	NA	No
WAP-1	Beryllium	mg/L	2025-02-18	0.0005	0.0005	0.004	No	NA	No
WAP-17	Beryllium	mg/L	2025-03-04	0.0005	0.0005	0.004	No	NA	No
WAP-18	Beryllium	mg/L	2025-02-27	0.0005	0.0005	0.004	No	NA	No
WAP-19	Beryllium	mg/L	2025-03-04	0.0005	0.0005	0.004	No	NA	No
WAP-9	Beryllium	mg/L	2025-02-25	0.0005	0.0005	0.004	No	NA	No
WBW-1	Beryllium	mg/L	2025-02-18	0.0005	0.0005	0.004	No	NA	No
WAP-1	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-17	Cadmium	mg/L	2025-03-04	0.0005	0.0005	0.005	No	NA	No
WAP-18	Cadmium	mg/L	2025-02-27	0.0005	0.0005	0.005	No	NA	No
WAP-19	Cadmium	mg/L	2025-03-04	0.0005	0.0005	0.005	No	NA	No
WAP-9	Cadmium	mg/L	2025-02-25	0.0005	0.0005	0.005	No	NA	No
WBW-1	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-1	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-17	Chromium	mg/L	2025-03-04	0.005	0.005	0.1	No	NA	No
WAP-18	Chromium	mg/L	2025-02-27	0.005	0.005	0.1	No	NA	No
WAP-19	Chromium	mg/L	2025-03-04	0.005	0.005	0.1	No	NA	No
WAP-9	Chromium	mg/L	2025-02-25	0.005	0.005	0.1	No	NA	No
WBW-1	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-1	Cobalt	mg/L	2025-02-18	0.00065	0.00838	0.00838	No	NA	No
WAP-17	Cobalt	mg/L	2025-03-04	0.0005	0.00838	0.00838	No	NA	No
WAP-18	Cobalt	mg/L	2025-02-27	0.0019	0.00838	0.00838	No	NA	No
WAP-19	Cobalt	mg/L	2025-03-04	0.0013	0.00838	0.00838	No	NA	No
WAP-9	Cobalt	mg/L	2025-02-25	0.0009	0.00838	0.00838	No	NA	No
WBW-1	Cobalt	mg/L	2025-02-18	0.00061	0.00838	0.00838	No	NA	No
WAP-1	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-17	Fluoride	mg/L	2025-03-04	0.066	0.14	4	No	NA	No
WAP-18	Fluoride	mg/L	2025-02-27	0.132	0.14	4	No	NA	No
WAP-19	Fluoride	mg/L	2025-03-04	0.45	0.14	4	No	NA	No
WAP-9	Fluoride	mg/L	2025-02-25	0.1	0.14	4	No	NA	No
WBW-1	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-1	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-17	Lead	mg/L	2025-03-04	0.001	0.01	0.015	No	NA	No
WAP-18	Lead	mg/L	2025-02-27	0.001	0.01	0.015	No	NA	No
WAP-19	Lead	mg/L	2025-03-04	0.001	0.01	0.015	No	NA	No
WAP-9	Lead	mg/L	2025-02-25	0.001	0.01	0.015	No	NA	No
WBW-1	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-1	Lithium	mg/L	2025-02-18	0.005	0.0116	0.04	No	NA	No
WAP-17	Lithium	mg/L	2025-03-04	0.0199	0.0116	0.04	No	NA	No
WBW-1	Lithium	mg/L	2025-02-18	0.005	0.0116	0.04	No	NA	No
WAP-1	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-17	Mercury	mg/L	2025-03-04	0.0002	0.0002	0.002	No	NA	No

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

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-18	Mercury	mg/L	2025-02-27	0.0002	0.0002	0.002	No	NA	No
WAP-19	Mercury	mg/L	2025-03-04	0.0002	0.0002	0.002	No	NA	No
WAP-9	Mercury	mg/L	2025-02-25	0.0002	0.0002	0.002	No	NA	No
WBW-1	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-1	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-17	Molybdenum	mg/L	2025-03-04	0.005	0.05	0.1	No	NA	No
WAP-18	Molybdenum	mg/L	2025-02-27	0.121	0.05	0.1	Yes	0.09	No
WAP-19	Molybdenum	mg/L	2025-03-04	0.0101	0.05	0.1	No	NA	No
WAP-9	Molybdenum	mg/L	2025-02-25	0.005	0.05	0.1	No	NA	No
WBW-1	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-1	Radium-226 & 228	pCi/L	2025-02-18	1.88	5.97	5.97	No	NA	No
WAP-17	Radium-226 & 228	pCi/L	2025-03-04	3.05	5.97	5.97	No	NA	No
WAP-18	Radium-226 & 228	pCi/L	2025-02-27	1.55	5.97	5.97	No	NA	No
WAP-19	Radium-226 & 228	pCi/L	2025-03-04	1.47	5.97	5.97	No	NA	No
WAP-9	Radium-226 & 228	pCi/L	2025-02-25	2.46	5.97	5.97	No	NA	No
WBW-1	Radium-226 & 228	pCi/L	2025-02-18	1.45	5.97	5.97	No	NA	No
WAP-1	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-17	Selenium	mg/L	2025-03-04	0.01	0.02	0.05	No	NA	No
WAP-18	Selenium	mg/L	2025-02-27	0.01	0.02	0.05	No	NA	No
WAP-19	Selenium	mg/L	2025-03-04	0.01	0.02	0.05	No	NA	No
WAP-9	Selenium	mg/L	2025-02-25	0.01	0.02	0.05	No	NA	No
WBW-1	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-1	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No
WAP-17	Thallium	mg/L	2025-03-04	0.001	0.001	0.002	No	NA	No
WAP-18	Thallium	mg/L	2025-02-27	0.001	0.001	0.002	No	NA	No
WAP-19	Thallium	mg/L	2025-03-04	0.001	0.001	0.002	No	NA	No
WAP-9	Thallium	mg/L	2025-02-25	0.001	0.001	0.002	No	NA	No
WBW-1	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No

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

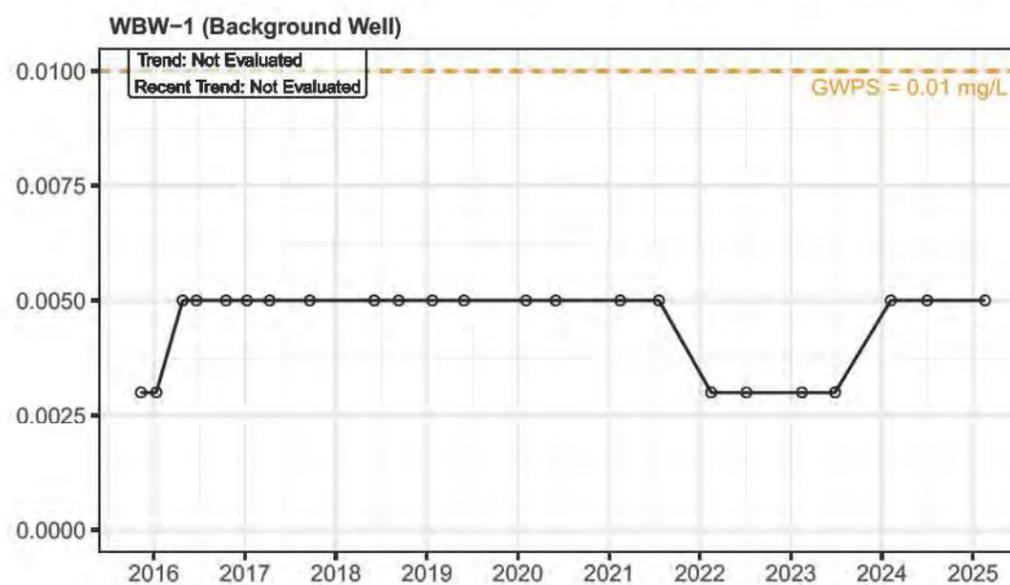
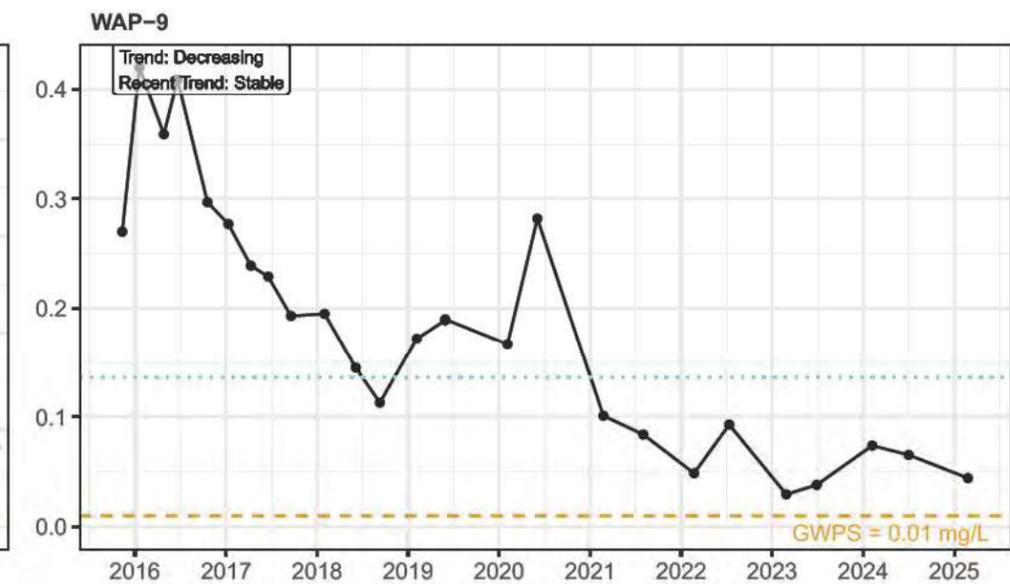
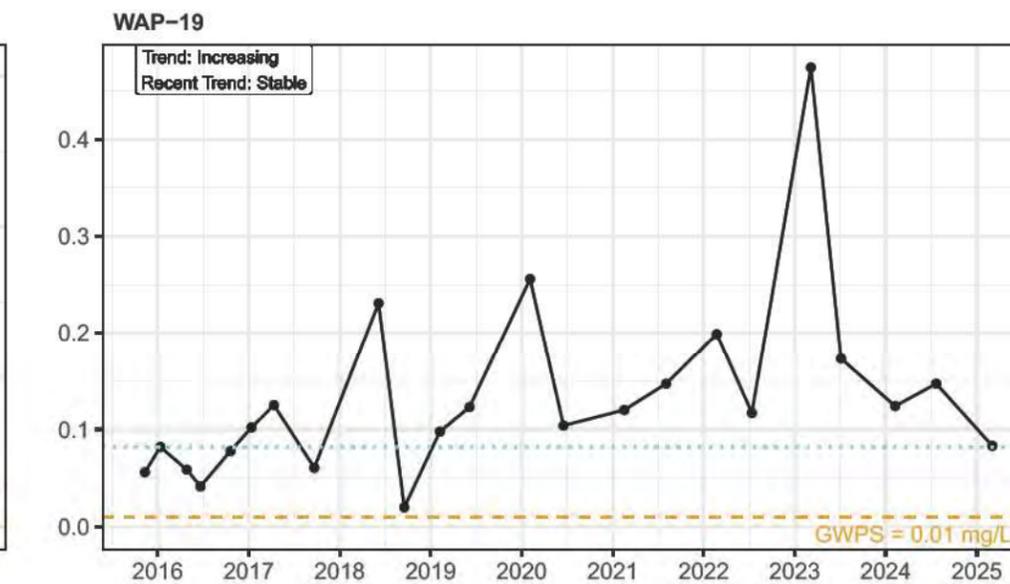
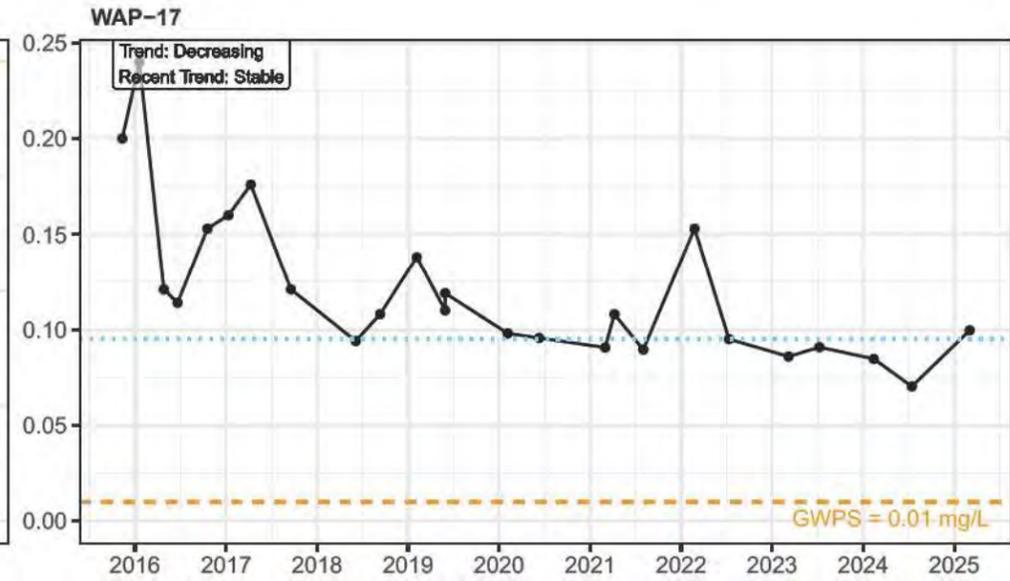
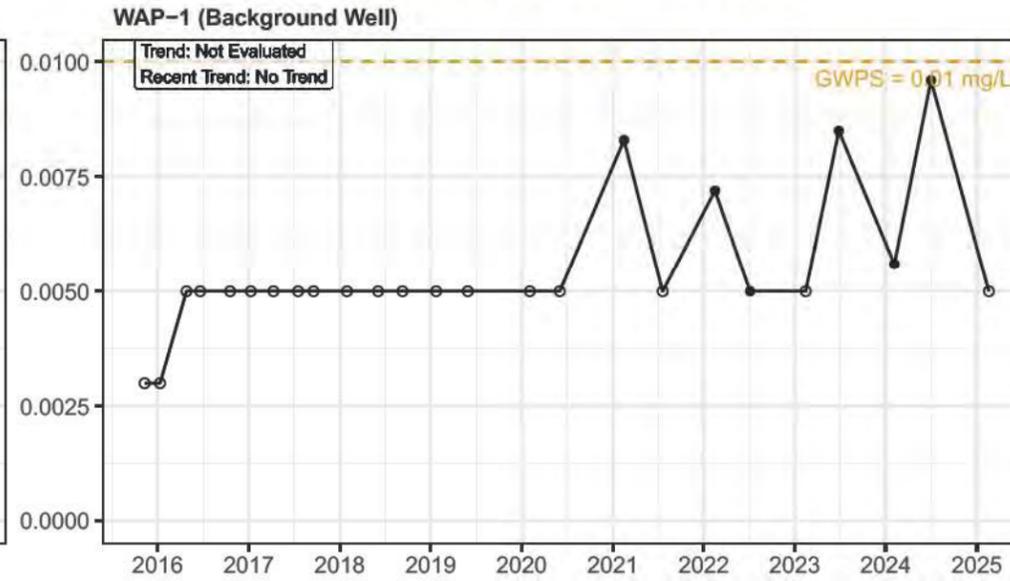
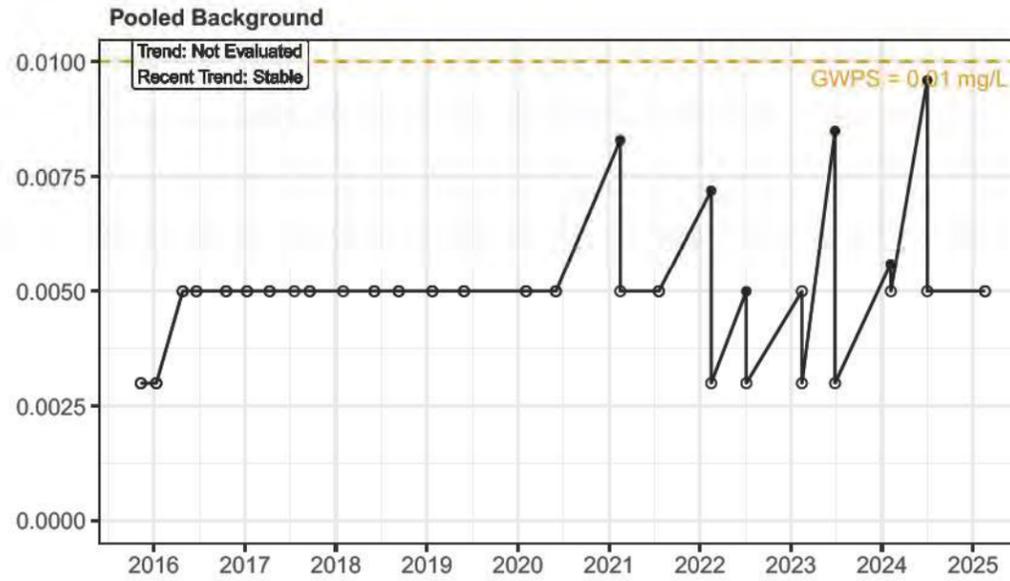
Trend Analysis for Antimony



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis Plots for Arsenic

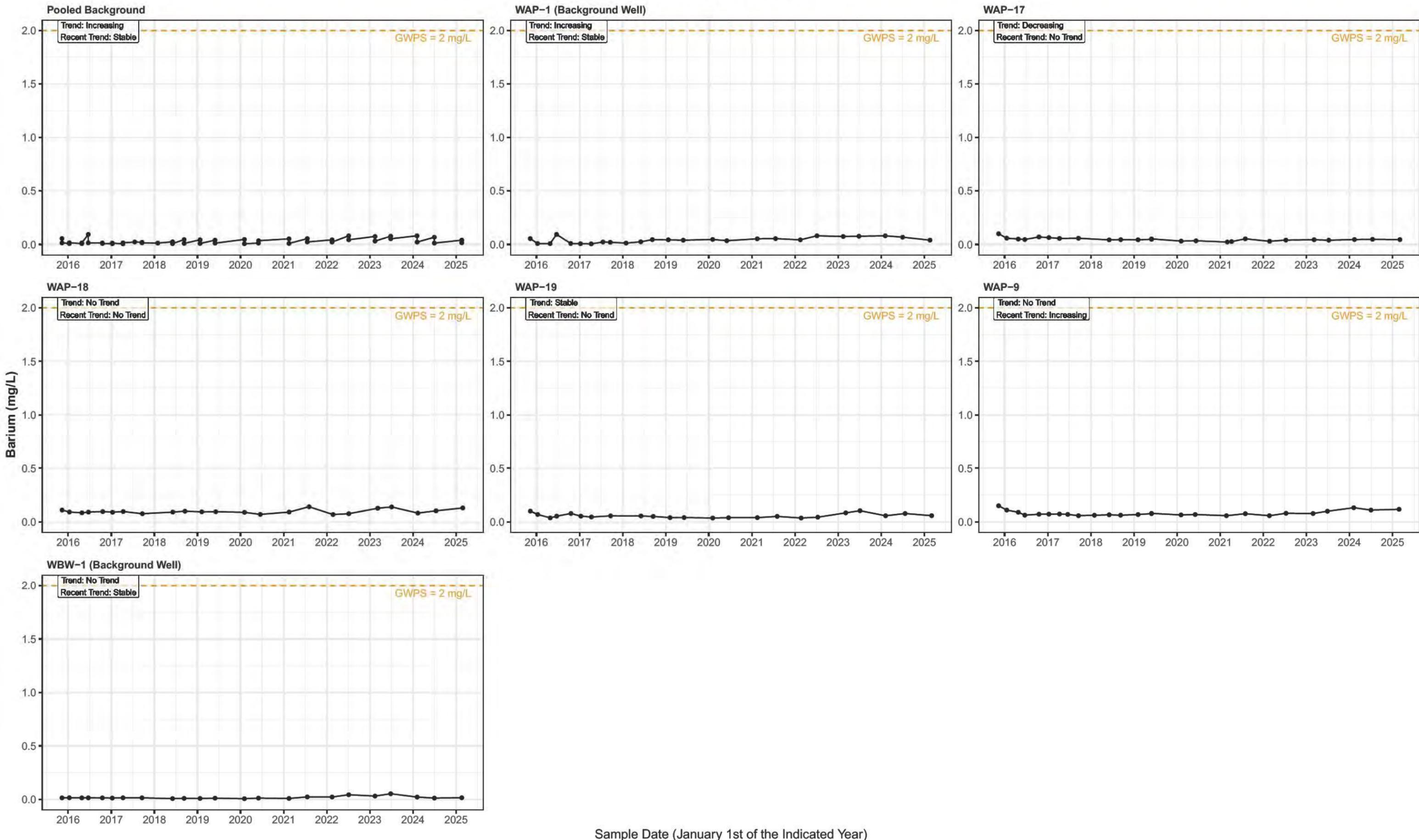


Sample Date (January 1st of the Indicated Year)

--- GWPS
 ---- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

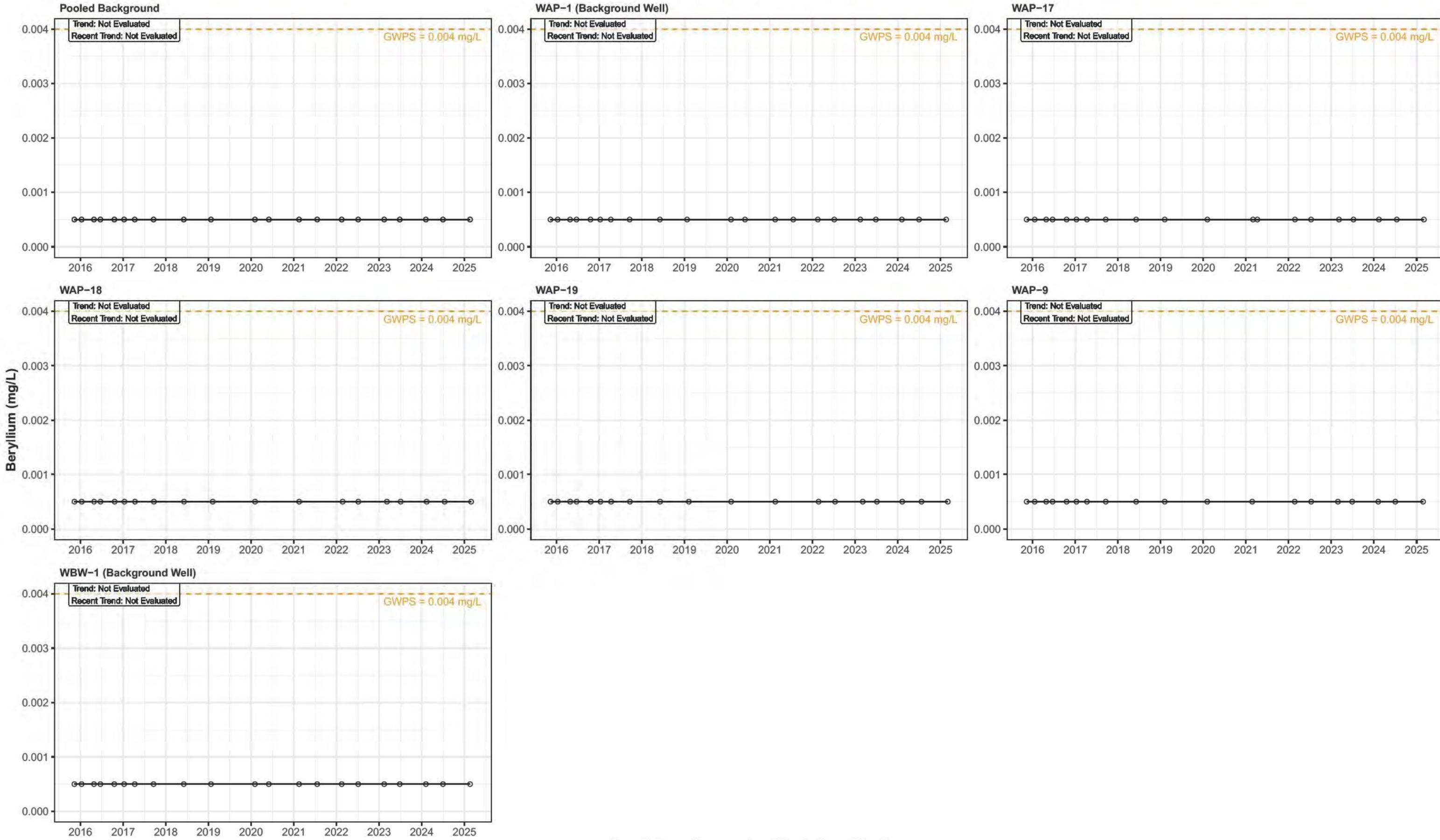
Trend Analysis for Barium



Detection Status: ● Detect

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

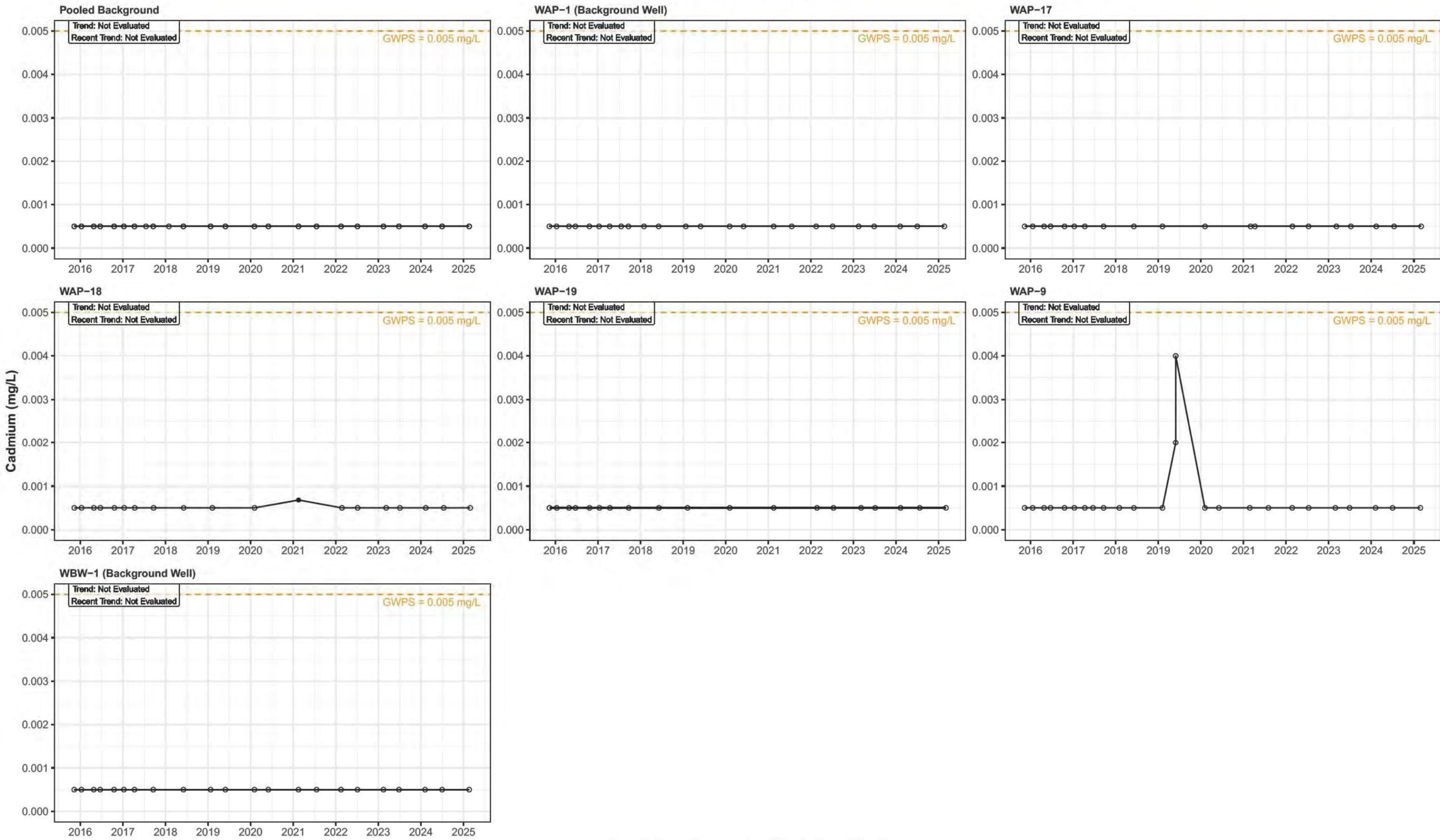
Trend Analysis for Beryllium



Detection Status: ○ Non-Detect

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

Trend Analysis for Cadmium

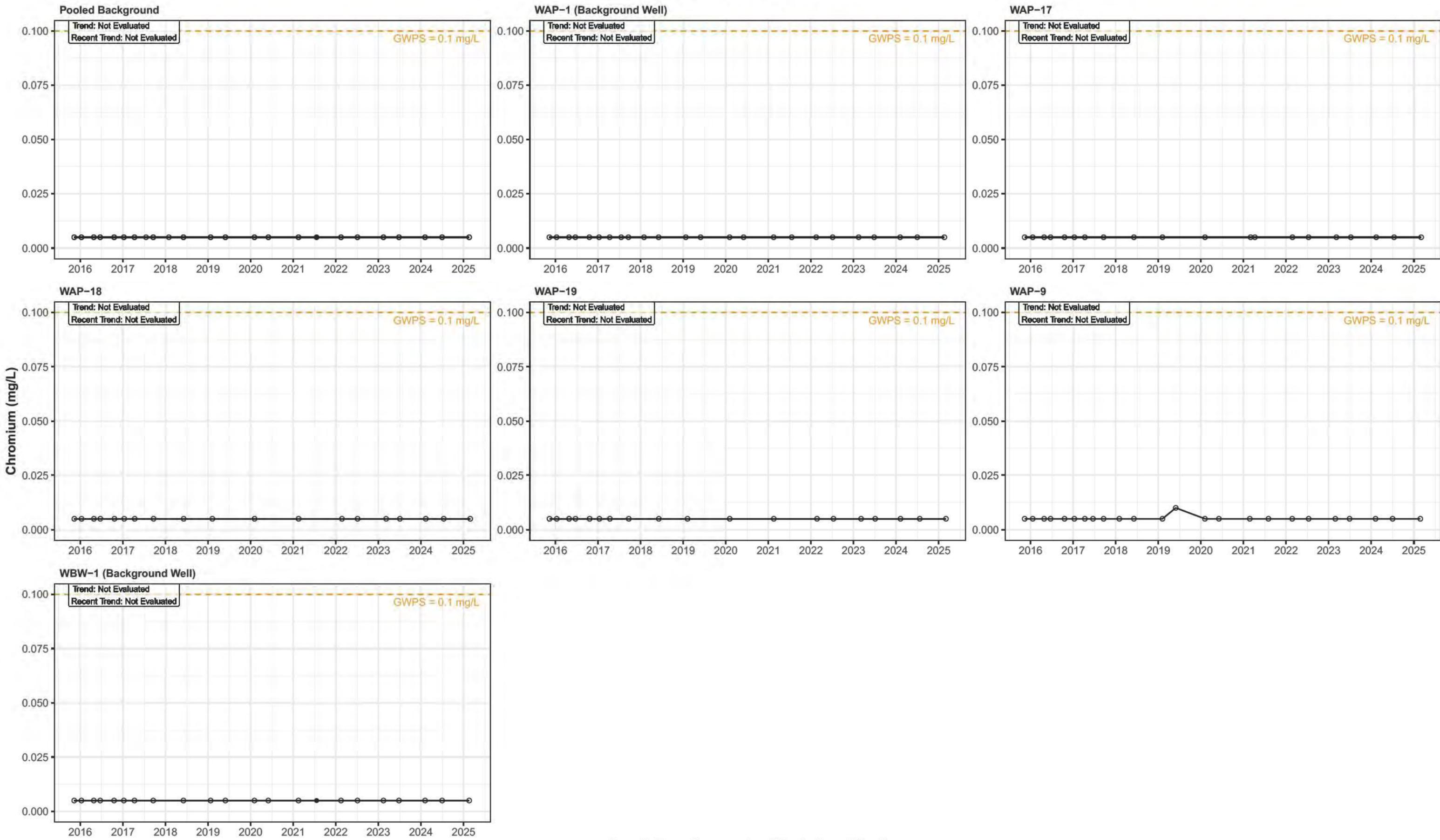


Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non-Detect

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

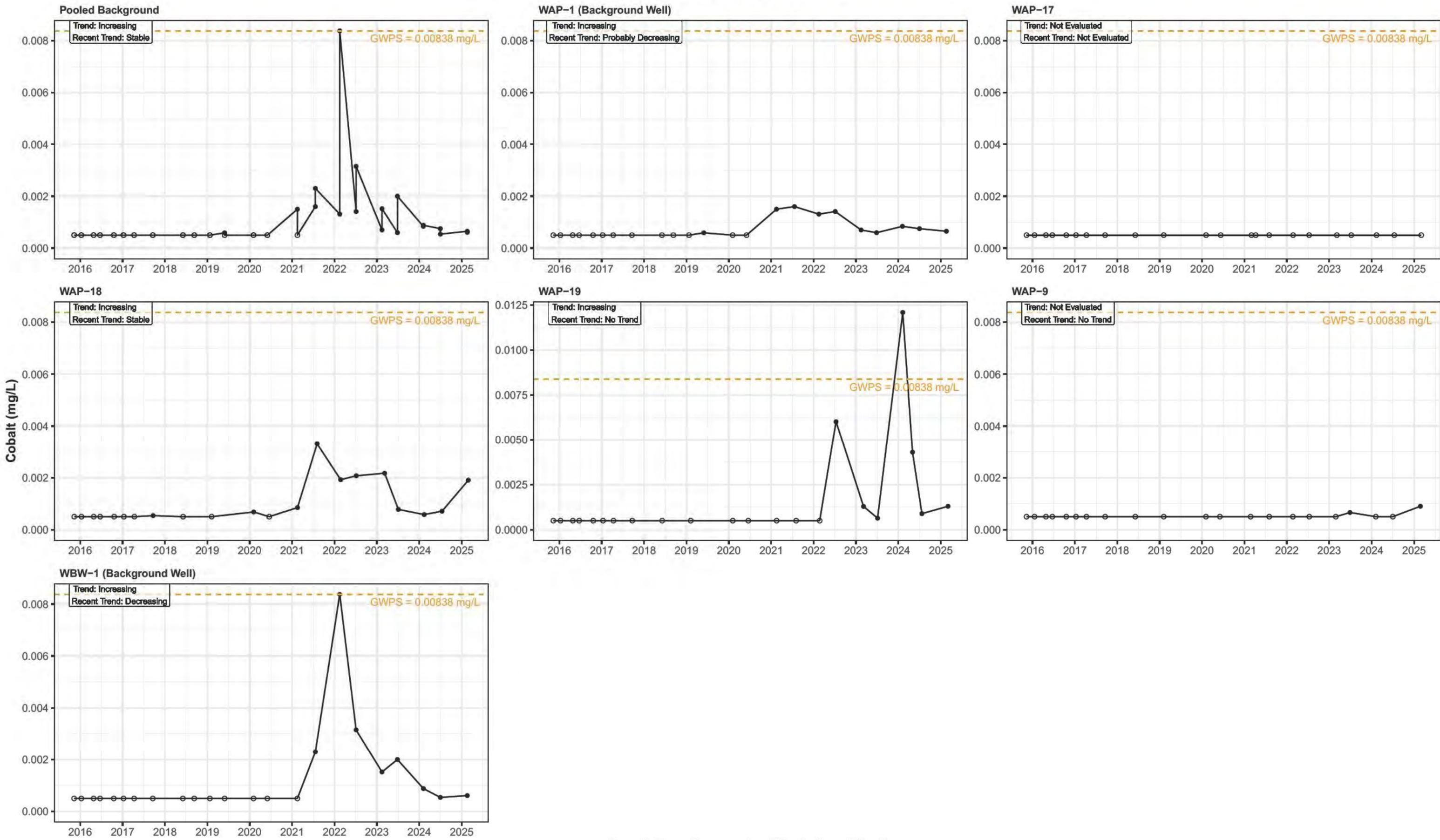
Trend Analysis for Chromium



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis for Cobalt

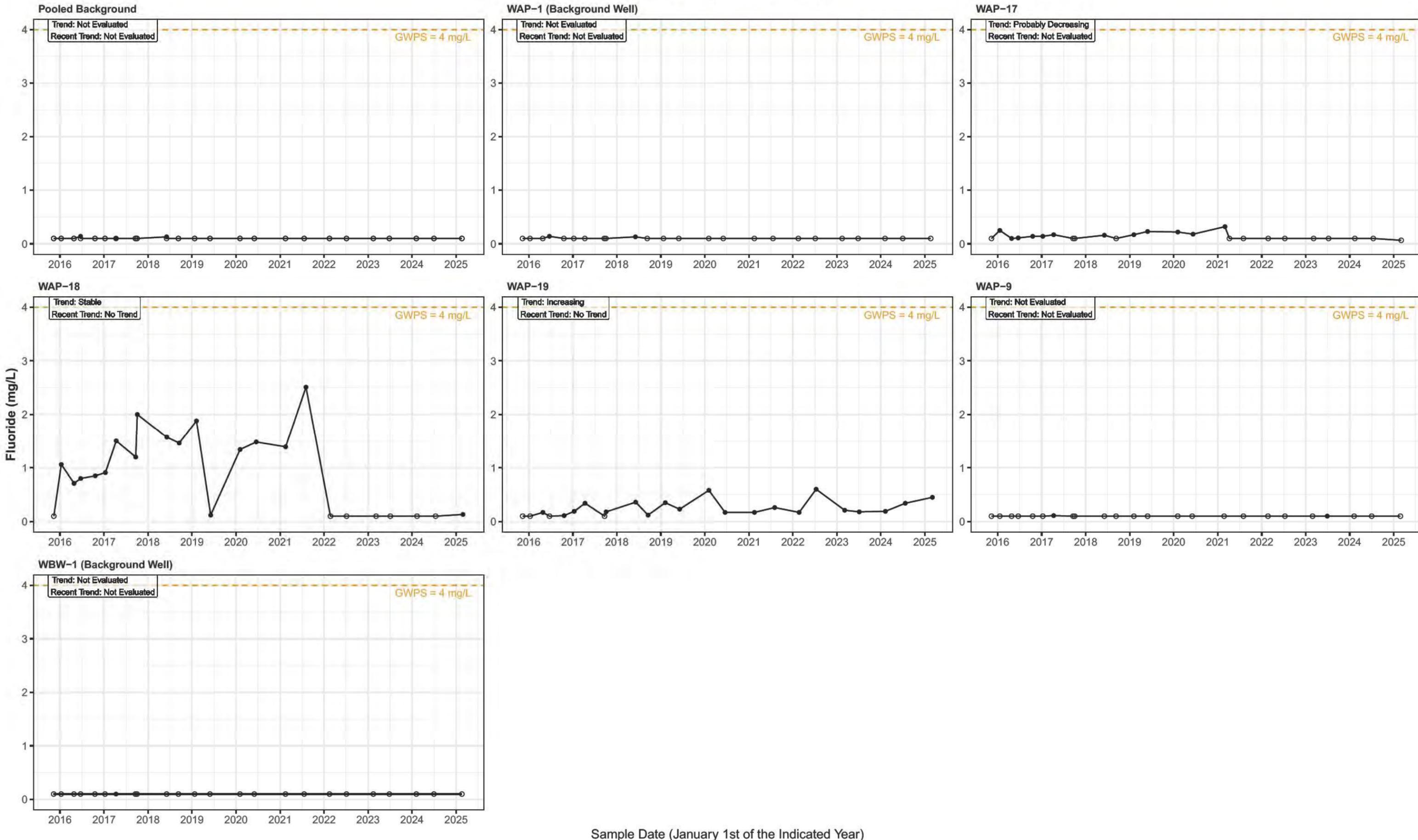


Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non-Detect

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

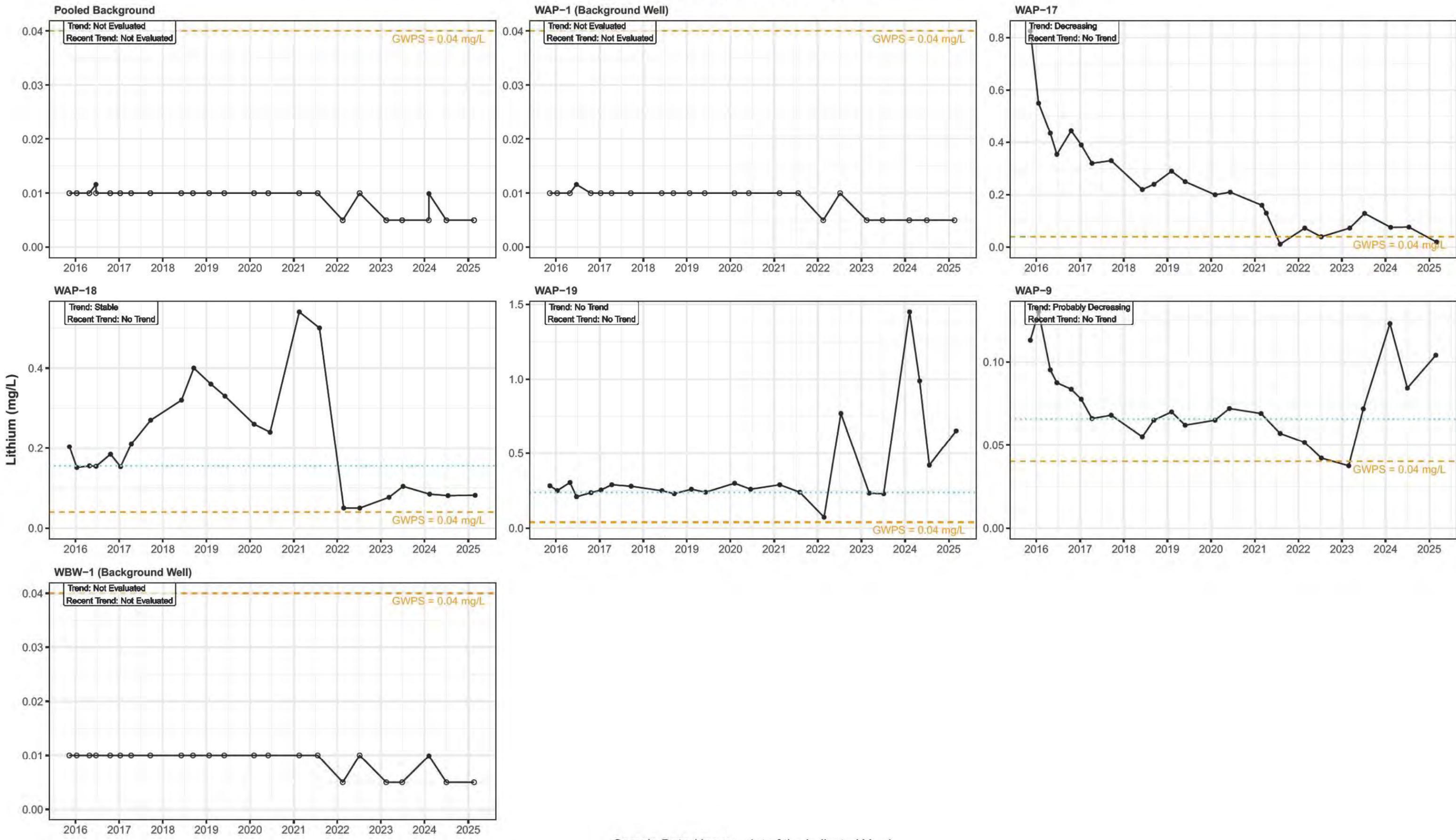
Trend Analysis for Fluoride



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis Plots for Lithium

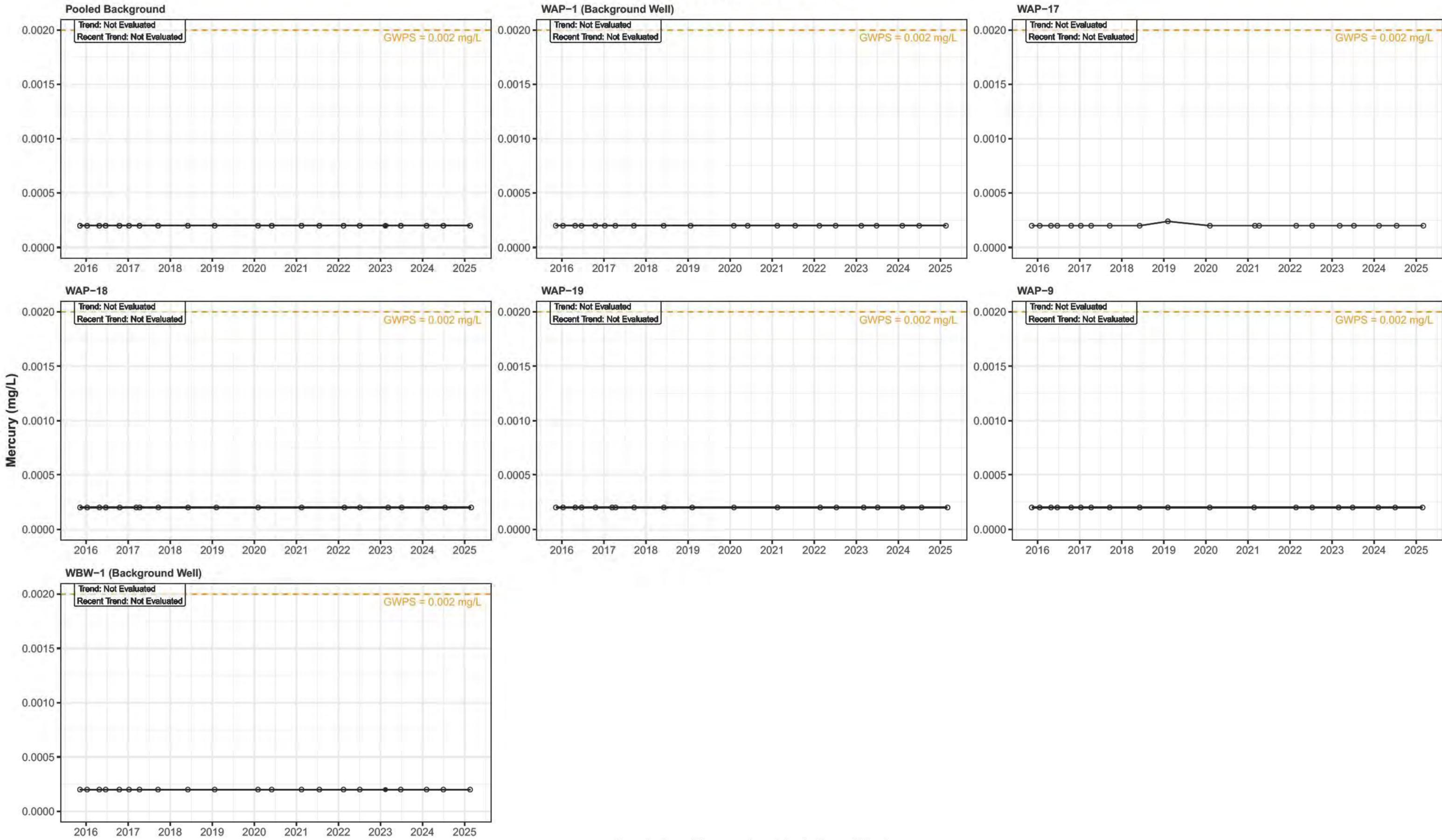


Sample Date (January 1st of the Indicated Year)

--- GWPS
 -.-.- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

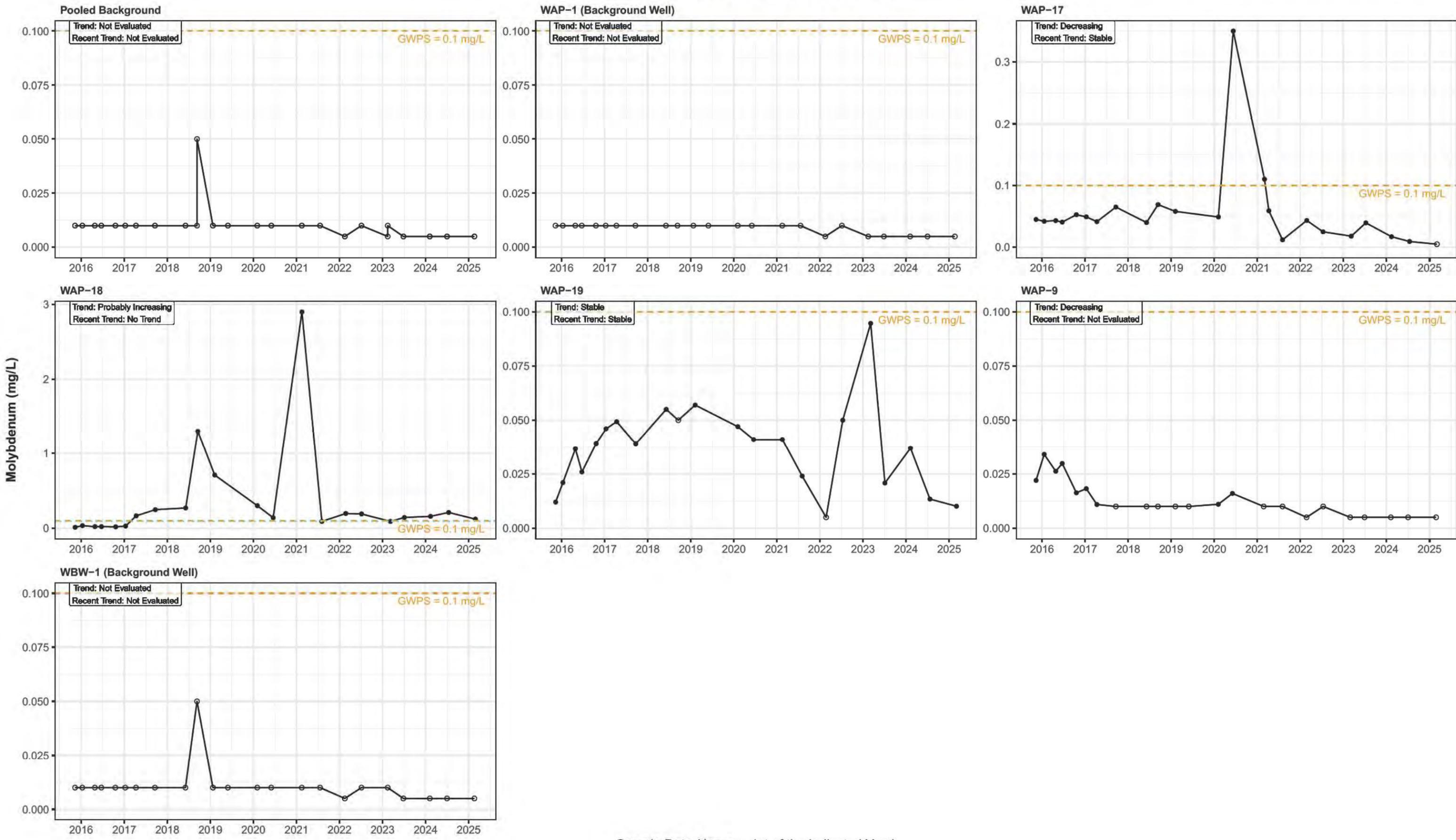
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis Plots for Molybdenum

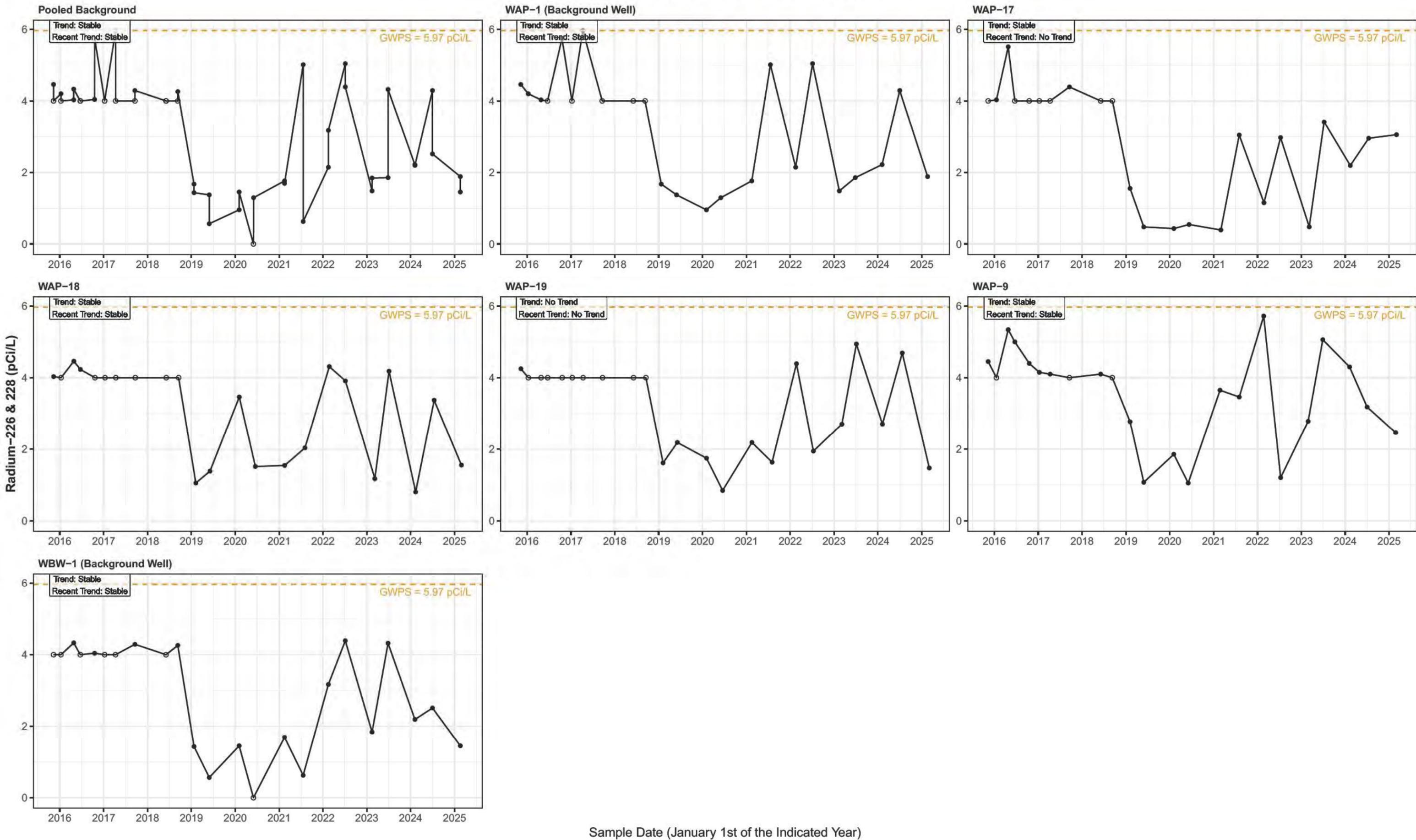


Sample Date (January 1st of the Indicated Year)

--- GWPS
 --- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

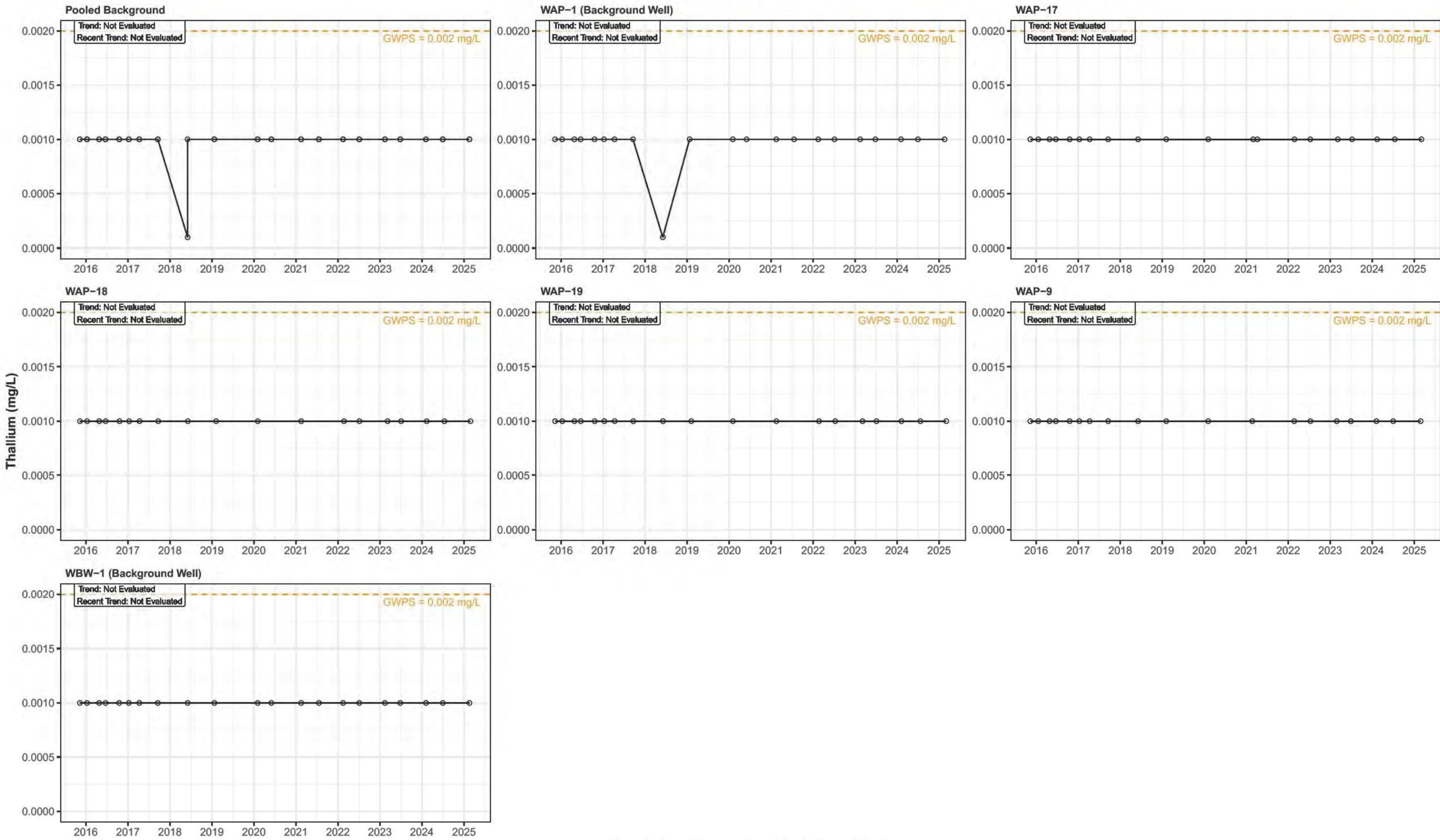
Trend Analysis for Radium-226 & 228



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis for Thallium



Detection Status: ○ Non-Detect

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



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TECHNICAL MEMORANDUM

July 1, 2025
File No. 132892-102

SUBJECT: Statistical Evaluation of the February and March 2025 Semiannual Corrective Action Groundwater Monitoring Data, Winyah Generating Station, Ash Pond B

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93, §257.95, and §257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the February and March 2025 semiannual corrective action groundwater monitoring event for Winyah Generating Station (WGS) Ash Pond B. Data for this groundwater sampling event were validated on April 30, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

Coal combustion residual (CCR) and non-CCR wastewater inflows to WGS Ash Pond B ceased prior to the regulatory deadline of April 11, 2021. The unit is undergoing closure-by-removal as outlined in the Remedy Selection Report dated March 30, 2022. During previous groundwater sampling events, assessment monitoring identified the presence of arsenic, lithium, and molybdenum in one or more downgradient wells at a statistically significant level (SSL) above the Groundwater Protection Standards (GWPS).

Recent analytical testing results were evaluated to ascertain if SSLs exist above GWPS for Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR §257.93(f) (1-4)) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich on October 14, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level (RSL), or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

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

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

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

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

Per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance), background concentrations were based on statistical evaluation of analytical results collected through July 2024 and updated in the Statistical Output produced with R programming software (Attachment A). The background dataset will be updated in Table 1 after four additional data points are collected (second semiannual event of 2025) in accordance with the Unified Guidance.

TREND ANALYSIS

Mann-Kendall trend analyses were performed on 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 15 downgradient well/constituent datasets that were evaluated for recent trends, 20 percent had stable trends, and 73 percent were variable with no statistically significant trend. An increasing trend was identified for barium in WAP-21, but the maximum detected value (0.039 milligrams per liter [mg/L]) remains well below the GWPS (2 mg/L). It is important to note that increasing trends are not part of the comparison criteria for triggering an SSL.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with previous results, arsenic has one SSL above the GWPS:

- Arsenic SSL at WAP-27.

As noted in the second 2022 semiannual statistical memorandum, monitoring well WAP-27, which is constructed with a deeper screened zone, was integrated by Santee Cooper as a temporary substitute for WAP-20 until the water table is restored to historical levels.

Lithium and molybdenum, which have been identified previously, did not have SSLs during the February and March 2025 sampling event. Concentrations are expected to continue to decrease once closure is complete and equilibrium groundwater conditions are restored; however, until then, some variability in the data is expected. The expected date for completing CCR removal for Ash Pond B is the first quarter of 2025. Groundwater trends will continue to be monitored during future sampling events.

Enclosures:

Table 1 – February and March 2025 Semiannual Corrective Action Monitoring Data
(WGS Ash Pond B)

Attachment A – Statistical Output, February and March 2025

TABLE

TABLE 1
FEBRUARY AND MARCH 2025 CORRECTIVE ACTION MONITORING DATA (WGS ASH POND B)
 WINYAH GENERATING STATION
 ASH POND B

Overall Data Summary												Inter-well Analysis									
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) Max level between the UTL and MCL/RSL	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>
CCR Appendix IV: Antimony, Total (mg/L)																					
WBW-1	0/21	100%	0.005 - 0.025	0.0060	0.005	0.005	NA	73%	0	1	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.025	NA	0.006	0.025	NA	NA
WAP-1	0/21	100%	0.002 - 0.025	0.0058	0.005	0.0050	NA	77%	0	1	Not Evaluated		2/18/2025	0.005	No		NA			NA	
WAP-10	0/19	100%	0.002 - 0.025	0.0059	0.005	0.0070	NA	79%	0	1	Not Evaluated		2/25/2025	0.005	No		No			NA	No
WAP-21	0/19	100%	0.002 - 0.05	0.0083	0.005	0.028	NA	135%	0	2	Not Evaluated		3/7/2025	0.005	No		No			NA	No
WAP-27	1/8	88%	0.005 - 0.005	0.0051	0.005	0.005	0.0057	5%	0	0	Not Evaluated		3/6/2025	0.005	No		No			NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																					
WBW-1	0/23	100%	0.003 - 0.005	0.0045	0.005	0.005	NA	20%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.0096	NA	0.01	0.01	NA	NA
WAP-1	6/25	76%	0.003 - 0.005	0.00541	0.005	0.00846	0.0096	28%	0	0	No Trend		2/18/2025	0.005	No		NA			NA	
WAP-10	13/25	48%	0.003 - 0.005	0.0251	0.006	0.128	0.14	158%	9	0	No Trend		2/25/2025	0.0148	Yes		Yes			0.005	No
WAP-21	3/23	87%	0.003 - 0.03	0.00585	0.005	0.006	0.0064	91%	0	1	No Trend		3/7/2025	0.0064	Yes		No			NA	No
WAP-27	8/8	0%	NA	0.09470	0.091	0.12000	0.122	18%	8	0	No Trend		3/6/2025	0.116	Yes		Yes			0.0805	Yes
CCR Appendix IV: Barium, Total (mg/L)																					
WBW-1	23/23	0%	NA	0.018	0.015	0.043	0.0534	62%	0	0	Stable	Non-Parametric (Pooled Background Data)	2/18/2025	0.0161	Yes	0.094	NA	2	2	NA	NA
WAP-1	25/25	0%	NA	0.042	0.0434	0.081	0.094	63%	0	0	Stable		2/18/2025	0.0403	Yes		NA			NA	
WAP-10	25/25	0%	NA	0.271	0.270	0.325	0.396	15%	0	0	Stable		2/25/2025	0.171	Yes		Yes			NA	No
WAP-21	23/23	0%	NA	0.054	0.045	0.107	0.15	55%	0	0	Increasing		3/7/2025	0.039	Yes		No			NA	No
WAP-27	8/8	0%	NA	0.11	0.11	0.12	0.125	11%	0	0	Stable		3/6/2025	0.125	Yes		Yes			NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																					
WBW-1	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0005	No	0.0005	NA	0.004	0.004	NA	NA
WAP-1	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/18/2025	0.0005	No		NA			NA	
WAP-10	0/19	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/25/2025	0.0005	No		No			NA	No
WAP-21	0/19	100%	0.0005 - 0.005	0.0007	0.0005	0.0010	NA	140%	0	1	Not Evaluated		3/7/2025	0.0005	No		No			NA	No
WAP-27	0/8	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		3/6/2025	0.0005	No		No			NA	No
CCR Appendix IV: Cadmium, Total (mg/L)																					
WBW-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0005	No	0.0005	NA	0.005	0.005	NA	NA
WAP-1	0/24	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/18/2025	0.0005	No		NA			NA	
WAP-10	0/24	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/25/2025	0.0005	No		No			NA	No
WAP-21	0/19	100%	0.0005 - 0.005	0.0007	0.0005	0.0010	NA	140%	0	0	Not Evaluated		3/7/2025	0.0005	No		No			NA	No
WAP-27	0/8	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		3/6/2025	0.0005	No		No			NA	No
CCR Appendix IV: Chromium, Total (mg/L)																					
WBW-1	1/22	96%	0.005 - 0.005	0.005	0.005	0.005	0.005	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.005	NA	0.1	0.1	NA	NA
WAP-1	0/24	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA	
WAP-10	0/24	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		2/25/2025	0.005	No		No			NA	No
WAP-21	1/19	95%	0.005 - 0.05	0.009	0.005	0.032	0.0296	133%	0	0	Not Evaluated		3/7/2025	0.005	No		No			NA	No
WAP-27	0/8	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		3/6/2025	0.005	No		No			NA	No

TABLE 1
FEBRUARY AND MARCH 2025 CORRECTIVE ACTION MONITORING DATA (WGS ASH POND B)
 WINYAH GENERATING STATION
 ASH POND B

Overall Data Summary											Inter-well Analysis										
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) Max level between the UTL and MCL/RSL	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>
CCR Appendix IV: Cobalt, Total (mg/L)																					
WBW-1	8/23	65%	0.0005 - 0.0005	0.0012	0.0005	0.0031	0.00838	148%	1	0	Decreasing	Non-Parametric (Pooled Background Data)	2/18/2025	0.00061	Yes	0.00838	NA	0.006	0.00838	NA	NA
WAP-1	10/23	57%	0.0005 - 0.0005	0.0007	0.0005	0.0015	0.0016	51%	0	0	Probably Decreasing		2/18/2025	0.00065	Yes		NA			NA	
WAP-10	0/23	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		2/25/2025	0.0005	No		No			NA	No
WAP-21	4/23	83%	0.0005 - 0.01	0.0013	0.0005	0.0047	0.00231	171%	0	1	No Trend		3/7/2025	0.0018	Yes		No			NA	No
WAP-27	3/8	63%	0.0005 - 0.0005	0.0006	0.0005	0.0008	0.0008	20%	0	0	No Trend		3/6/2025	0.0008	Yes		No			NA	No
CCR Appendix IV: Fluoride, Total (mg/L)																					
WBW-1	1/24	96%	0.1 - 0.1	0.100	0.100	0.100	0.1	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.1	No	0.14	NA	4	4	NA	NA
WAP-1	2/24	92%	0.1 - 0.1	0.103	0.100	0.125	0.14	10%	0	0	Not Evaluated		2/18/2025	0.1	No		NA			NA	
WAP-10	2/24	92%	0.1 - 0.1	0.10	0.10	0.12	0.15	11%	0	0	Not Evaluated		2/25/2025	0.1	No		No			NA	No
WAP-21	0/24	100%	0.1 - 0.1	0.100	0.100	0.100	NA	0%	0	0	Not Evaluated		3/7/2025	0.1	No		No			NA	No
WAP-27	4/8	50%	0.1 - 0.1	0.138	0.100	0.280	0.35	64%	0	0	No Trend		3/6/2025	0.101	Yes		No			NA	No
CCR Appendix IV: Lead, Total (mg/L)																					
WBW-1	0/22	100%	0.001 - 0.01	0.002	0.001	0.010	NA	121%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.001	No	0.01	NA	0.015	0.015	NA	NA
WAP-1	4/24	83%	0.001 - 0.01	0.002	0.001	0.004	0.00456	103%	0	0	Not Evaluated		2/18/2025	0.001	No		NA			NA	
WAP-10	0/24	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated		2/25/2025	0.001	No		No			NA	No
WAP-21	3/19	84%	0.001 - 0.01	0.002	0.001	0.010	0.011	122%	0	0	No Trend		3/7/2025	0.001	No		No			NA	No
WAP-27	0/8	100%	0.001 - 0.0025	0.001	0.001	0.002	NA	45%	0	0	Not Evaluated		3/6/2025	0.001	No		No			NA	No
CCR Appendix IV: Lithium, Total (mg/L)																					
WBW-1	1/23	96%	0.005 - 0.01	0.0089	0.0100	0.0100	0.0099	24%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.0116	NA	0.04	0.04	NA	NA
WAP-1	1/23	96%	0.005 - 0.01	0.0088	0.0100	0.0100	0.0116	26%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA	
WAP-10	24/24	0%	NA	0.0336	0.0260	0.0651	0.0706	46%	6	0	Probably Increasing		2/25/2025	0.0449	Yes		Yes			0.0230	No
WAP-21	1/23	96%	0.005 - 0.01	0.0094	0.0100	0.0100	0.0209	35%	0	0	Not Evaluated		3/7/2025	0.005	No		No			NA	No
WAP-27	6/8	25%	0.005 - 0.005	0.0114	0.0095	0.0228	0.0263	61%	0	0	No Trend		3/6/2025	0.0263	Yes		Yes			NA	No
CCR Appendix IV: Mercury, Total (mg/L)																					
WBW-1	1/21	95%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.0002	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.0002	No	0.0002	NA	0.002	0.002	NA	NA
WAP-1	0/21	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		2/18/2025	0.0002	No		NA			NA	
WAP-10	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		2/25/2025	0.0002	No		No			NA	No
WAP-21	0/19	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		3/7/2025	0.0002	No		No			NA	No
WAP-27	0/8	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		3/6/2025	0.0002	No		No			NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																					
WBW-1	0/23	100%	0.005 - 0.05	0.011	0.010	0.010	NA	83%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.005	No	0.05	NA	0.1	0.1	NA	NA
WAP-1	0/23	100%	0.005 - 0.01	0.009	0.010	0.010	NA	26%	0	0	Not Evaluated		2/18/2025	0.005	No		NA			NA	
WAP-10	0/23	100%	0.005 - 0.01	0.009	0.010	0.010	NA	26%	0	0	Not Evaluated		2/25/2025	0.005	No		No			NA	No
WAP-21	0/23	100%	0.005 - 0.05	0.011	0.010	0.010	NA	83%	0	0	Not Evaluated		3/7/2025	0.005	No		No			NA	No
WAP-27	0/8	100%	0.005 - 0.01	0.006	0.005	0.008	NA	31%	0	0	Not Evaluated		3/6/2025	0.005	No		No			NA	No

TABLE 1
FEBRUARY AND MARCH 2025 CORRECTIVE ACTION MONITORING DATA (WGS ASH POND B)
 WINYAH GENERATING STATION
 ASH POND B

Overall Data Summary											Inter-well Analysis										
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	February/March 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) Max level between the UTL and MCL/RSL	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																					
WBW-1	16/23	30%	0 - 4	2.89	4.00	4.33	4.39	51%	0	0	Stable	Non-Parametric (Pooled Background Data)	2/18/2025	1.45	Yes	5.97	NA	5	5.97	NA	NA
WAP-1	18/23	22%	4 - 4	3.28	4.00	5.67	5.97	48%	4	0	Stable		2/18/2025	1.88	Yes		NA			NA	
WAP-10	23/23	0%	4 - 4	4.89	5.34	6.88	6.91	33%	13	0	No Trend		2/25/2025	3.95	Yes		No			NA	No
WAP-21	19/23	17%	4 - 4	2.98	2.74	5.03	5.67	55%	2	0	Stable		3/6/2025	1.11	Yes		No			NA	No
WAP-27	8/8	0%	4 - 4	2.02	1.81	2.92	3.02	29%	0	0	No Trend		3/6/2025	2.2	Yes		No			NA	No
CCR Appendix IV: Selenium, Total (mg/L)																					
WBW-1	0/22	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	41%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.01	No	0.02	NA	0.05	0.05	NA	NA
WAP-1	0/24	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		2/18/2025	0.01	No		NA			NA	
WAP-10	0/24	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		2/25/2025	0.01	No		No			NA	No
WAP-21	0/19	100%	0.005 - 0.025	0.013	0.010	0.021	NA	43%	0	0	Not Evaluated		3/7/2025	0.01	No		No			NA	No
WAP-27	0/8	100%	0.01 - 0.02	0.011	0.010	0.017	NA	31%	0	0	Not Evaluated		3/6/2025	0.01	No		No			NA	No
CCR Appendix IV: Thallium, Total (mg/L)																					
WBW-1	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	2/18/2025	0.001	No	0.001	NA	0.002	0.002	NA	NA
WAP-1	0/21	100%	0.0001 - 0.001	0.001	0.001	0.001	NA	21%	0	0	Not Evaluated		2/18/2025	0.001	No		NA			NA	
WAP-10	0/19	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		2/25/2025	0.001	No		No			NA	No
WAP-21	0/19	100%	0.001 - 0.01	0.001	0.001	0.002	NA	140%	0	1	Not Evaluated		3/7/2025	0.001	No		No			NA	No
WAP-27	0/8	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		3/6/2025	0.001	No		No			NA	No

Notes:

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

[b] Interwell Tolerance Limits are calculated from data collected from pooled upgradient well data (WBW-1 and WAP-1) through July 2024. No statistical outlier data points were removed from background datasets.

MCL/RSL: Maximum contaminant level/Regional screening level

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

NA: not applicable

ATTACHMENT A
Statistical Output, February and March 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
Pooled Background	Antimony	mg/L	42	42	100	0.025	0.002	0.00588	0.005	0.0044	74	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-1 (Background)	Antimony	mg/L	21	21	100	0.025	0.002	0.00581	0.005	0.0044	76.5	0.002 - 0.025	2015-11-10 to 2025-02-18
WAP-10	Antimony	mg/L	19	19	100	0.025	0.002	0.00589	0.005	0.0047	79.3	0.002 - 0.025	2015-11-12 to 2025-02-25
WAP-21	Antimony	mg/L	19	19	100	0.05	0.002	0.00826	0.005	0.011	135	0.002 - 0.05	2015-11-11 to 2025-03-07
WAP-27	Antimony	mg/L	8	7	88	0.0057	0.005	0.00509	0.005	0.00025	4.86	0.005 - 0.005	2023-03-02 to 2025-03-06
WBW-1 (Background)	Antimony	mg/L	21	21	100	0.025	0.005	0.00595	0.005	0.0044	73.3	0.005 - 0.025	2015-11-10 to 2025-02-18
Pooled Background	Arsenic	mg/L	48	42	88	0.0096	0.003	0.00496	0.005	0.0013	26.5	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Arsenic	mg/L	25	19	76	0.0096	0.003	0.00541	0.005	0.0015	27.6	0.003 - 0.005	2015-11-10 to 2025-02-18
WAP-10	Arsenic	mg/L	25	12	48	0.14	0.003	0.0251	0.0055	0.04	158	0.003 - 0.005	2015-11-12 to 2025-02-25
WAP-21	Arsenic	mg/L	23	20	87	0.03	0.003	0.00585	0.005	0.0053	91.2	0.003 - 0.03	2015-11-11 to 2025-03-07
WAP-27	Arsenic	mg/L	8	0	0	0.122	0.0756	0.0947	0.0907	0.017	17.9	NA	2023-03-02 to 2025-03-06
WBW-1 (Background)	Arsenic	mg/L	23	23	100	0.005	0.003	0.00448	0.005	0.0009	20.1	0.003 - 0.005	2015-11-10 to 2025-02-18
Pooled Background	Barium	mg/L	48	0	0	0.094	0.0058	0.0306	0.0214	0.024	77.9	NA	2015-11-10 to 2025-02-18
WAP-1 (Background)	Barium	mg/L	25	0	0	0.094	0.0058	0.0422	0.0434	0.027	63.2	NA	2015-11-10 to 2025-02-18
WAP-10	Barium	mg/L	25	0	0	0.396	0.171	0.271	0.27	0.041	15.1	NA	2015-11-12 to 2025-02-25
WAP-21	Barium	mg/L	23	0	0	0.15	0.0204	0.0543	0.0447	0.03	54.5	NA	2015-11-11 to 2025-03-07
WAP-27	Barium	mg/L	8	0	0	0.125	0.0895	0.111	0.114	0.012	10.8	NA	2023-03-02 to 2025-03-06
WBW-1 (Background)	Barium	mg/L	23	0	0	0.0534	0.0072	0.0181	0.015	0.011	62	NA	2015-11-10 to 2025-02-18
Pooled Background	Beryllium	mg/L	42	42	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-10	Beryllium	mg/L	19	19	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-12 to 2025-02-25
WAP-21	Beryllium	mg/L	19	19	100	0.005	0.0005	0.000737	0.0005	0.001	140	0.0005 - 0.005	2015-11-11 to 2025-03-07
WAP-27	Beryllium	mg/L	8	8	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2023-03-02 to 2025-03-06
WBW-1 (Background)	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Cadmium	mg/L	46	46	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Cadmium	mg/L	24	24	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-10	Cadmium	mg/L	24	24	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-12 to 2025-02-25
WAP-21	Cadmium	mg/L	19	19	100	0.005	0.0005	0.000737	0.0005	0.001	140	0.0005 - 0.005	2015-11-11 to 2025-03-07
WAP-27	Cadmium	mg/L	8	8	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2023-03-02 to 2025-03-06
WBW-1 (Background)	Cadmium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Chromium	mg/L	46	45	98	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Chromium	mg/L	24	24	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
WAP-10	Chromium	mg/L	24	24	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-12 to 2025-02-25
WAP-21	Chromium	mg/L	19	18	95	0.05	0.005	0.00866	0.005	0.011	133	0.005 - 0.05	2015-11-11 to 2025-03-07
WAP-27	Chromium	mg/L	8	8	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2023-03-02 to 2025-03-06
WBW-1 (Background)	Chromium	mg/L	22	21	95	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-02-18
Pooled Background	Cobalt	mg/L	46	28	61	0.00838	0.0005	0.000942	0.0005	0.0013	133	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-1 (Background)	Cobalt	mg/L	23	13	57	0.0016	0.0005	0.000715	0.0005	0.00036	50.7	0.0005 - 0.0005	2015-11-10 to 2025-02-18
WAP-10	Cobalt	mg/L	23	23	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-12 to 2025-02-25
WAP-21	Cobalt	mg/L	23	19	83	0.01	0.0005	0.00126	0.0005	0.0022	171	0.0005 - 0.01	2015-11-11 to 2025-03-07
WAP-27	Cobalt	mg/L	8	5	62	0.0008	0.0005	0.000576	0.0005	0.00012	20	0.0005 - 0.0005	2023-03-02 to 2025-03-06
WBW-1 (Background)	Cobalt	mg/L	23	15	65	0.00838	0.0005	0.00117	0.0005	0.0017	148	0.0005 - 0.0005	2015-11-10 to 2025-02-18
Pooled Background	Fluoride	mg/L	48	45	94	0.14	0.1	0.101	0.1	0.0071	7.04	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-1 (Background)	Fluoride	mg/L	24	22	92	0.14	0.1	0.103	0.1	0.01	9.71	0.1 - 0.1	2015-11-10 to 2025-02-18
WAP-10	Fluoride	mg/L	24	22	92	0.15	0.1	0.103	0.1	0.011	10.5	0.1 - 0.1	2015-11-12 to 2025-02-25
WAP-21	Fluoride	mg/L	24	24	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-11 to 2025-03-07
WAP-27	Fluoride	mg/L	8	4	50	0.35	0.1	0.138	0.1	0.088	63.6	0.1 - 0.1	2023-03-02 to 2025-03-06
WBW-1 (Background)	Fluoride	mg/L	24	23	96	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-10 to 2025-02-18
Pooled Background	Lead	mg/L	46	42	91	0.01	0.001	0.00202	0.001	0.0023	112	0.001 - 0.01	2015-11-10 to 2025-02-18
WAP-1 (Background)	Lead	mg/L	24	20	83	0.01	0.001	0.00189	0.001	0.0019	103	0.001 - 0.01	2015-11-10 to 2025-02-18
WAP-10	Lead	mg/L	24	24	100	0.01	0.001	0.00169	0.001	0.0019	111	0.001 - 0.01	2015-11-12 to 2025-02-25
WAP-21	Lead	mg/L	19	16	84	0.011	0.001	0.00241	0.001	0.0029	122	0.001 - 0.01	2015-11-11 to 2025-03-07
WAP-27	Lead	mg/L	8	8	100	0.0025	0.001	0.00119	0.001	0.00053	44.7	0.001 - 0.0025	2023-03-02 to 2025-03-06

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

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
WBW-1 (Background)	Lead	mg/L	22	22	100	0.01	0.001	0.00216	0.001	0.0026	121	0.001 - 0.01	2015-11-10 to 2025-02-18
Pooled Background	Lithium	mg/L	46	44	96	0.0116	0.005	0.00884	0.01	0.0022	24.8	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-1 (Background)	Lithium	mg/L	23	22	96	0.0116	0.005	0.00877	0.01	0.0023	26.4	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-10	Lithium	mg/L	24	0	0	0.0706	0.019	0.0336	0.026	0.015	45.8	NA	2015-11-12 to 2025-02-25
WAP-21	Lithium	mg/L	23	22	96	0.0209	0.005	0.00939	0.01	0.0033	34.8	0.005 - 0.01	2015-11-11 to 2025-03-07
WAP-27	Lithium	mg/L	8	2	25	0.0263	0.005	0.0114	0.00954	0.007	61.3	0.005 - 0.005	2023-03-02 to 2025-03-06
WBW-1 (Background)	Lithium	mg/L	23	22	96	0.01	0.005	0.00891	0.01	0.0021	23.6	0.005 - 0.01	2015-11-10 to 2025-02-18
Pooled Background	Mercury	mg/L	42	41	98	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-1 (Background)	Mercury	mg/L	21	21	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
WAP-10	Mercury	mg/L	19	19	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-12 to 2025-02-25
WAP-21	Mercury	mg/L	18	18	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-03-07
WAP-21	Mercury	mg/L	1	1	100	0.0002	0.0002	0.0002	0.0002	NA	NA	0.0002 - 0.0002	2024-07-16 to 2024-07-16
WAP-27	Mercury	mg/L	8	8	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2023-03-02 to 2025-03-06
WBW-1 (Background)	Mercury	mg/L	21	20	95	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-02-18
Pooled Background	Molybdenum	mg/L	46	46	100	0.05	0.005	0.00967	0.01	0.0064	66.6	0.005 - 0.05	2015-11-10 to 2025-02-18
WAP-1 (Background)	Molybdenum	mg/L	23	23	100	0.01	0.005	0.0087	0.01	0.0022	25.8	0.005 - 0.01	2015-11-10 to 2025-02-18
WAP-10	Molybdenum	mg/L	23	23	100	0.01	0.005	0.0087	0.01	0.0022	25.8	0.005 - 0.01	2015-11-12 to 2025-02-25
WAP-21	Molybdenum	mg/L	23	23	100	0.05	0.005	0.0107	0.01	0.0088	82.9	0.005 - 0.05	2015-11-11 to 2025-03-07
WAP-27	Molybdenum	mg/L	8	8	100	0.01	0.005	0.00562	0.005	0.0018	31.4	0.005 - 0.01	2023-03-02 to 2025-03-06
WBW-1 (Background)	Molybdenum	mg/L	23	23	100	0.05	0.005	0.0107	0.01	0.0088	82.9	0.005 - 0.05	2015-11-10 to 2025-02-18
Pooled Background	Radium-226 & 228	pCi/L	46	12	26	5.97	0	3.08	4	1.5	48.9	0 - 4	2015-11-10 to 2025-02-18
WAP-1 (Background)	Radium-226 & 228	pCi/L	23	5	22	5.97	0.952	3.28	4	1.6	47.6	4 - 4	2015-11-10 to 2025-02-18
WAP-10	Radium-226 & 228	pCi/L	23	0	0	6.91	1.55	4.89	5.34	1.6	32.9	NA	2015-11-12 to 2025-02-25
WAP-21	Radium-226 & 228	pCi/L	23	4	17	5.67	0.845	2.98	2.74	1.6	55.1	4 - 4	2015-11-11 to 2025-03-06
WAP-27	Radium-226 & 228	pCi/L	8	0	0	3.02	1.41	2.02	1.81	0.58	28.8	NA	2023-03-02 to 2025-03-06
WBW-1 (Background)	Radium-226 & 228	pCi/L	23	7	30	4.39	0	2.89	4	1.5	50.7	0 - 4	2015-11-10 to 2025-02-18
Pooled Background	Selenium	mg/L	46	46	100	0.02	0.0025	0.011	0.01	0.0043	38.8	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-1 (Background)	Selenium	mg/L	24	24	100	0.02	0.0025	0.0107	0.01	0.004	37.3	0.0025 - 0.02	2015-11-10 to 2025-02-18
WAP-10	Selenium	mg/L	24	24	100	0.02	0.0025	0.0107	0.01	0.004	37.3	0.0025 - 0.02	2015-11-12 to 2025-02-25
WAP-21	Selenium	mg/L	19	19	100	0.025	0.005	0.0126	0.01	0.0054	42.5	0.005 - 0.025	2015-11-11 to 2025-03-07
WAP-27	Selenium	mg/L	8	8	100	0.02	0.01	0.0112	0.01	0.0035	31.4	0.01 - 0.02	2023-03-02 to 2025-03-06
WBW-1 (Background)	Selenium	mg/L	22	22	100	0.02	0.0025	0.0112	0.01	0.0046	41	0.0025 - 0.02	2015-11-10 to 2025-02-18
Pooled Background	Thallium	mg/L	42	42	100	0.001	0.0001	0.000979	0.001	0.00014	14.2	0.0001 - 0.001	2015-11-10 to 2025-02-18
WAP-1 (Background)	Thallium	mg/L	21	21	100	0.001	0.0001	0.000957	0.001	0.0002	20.5	0.0001 - 0.001	2015-11-10 to 2025-02-18
WAP-10	Thallium	mg/L	19	19	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-12 to 2025-02-25
WAP-21	Thallium	mg/L	19	19	100	0.01	0.001	0.00147	0.001	0.0021	140	0.001 - 0.01	2015-11-11 to 2025-03-07
WAP-27	Thallium	mg/L	8	8	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2023-03-02 to 2025-03-06
WBW-1 (Background)	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-02-18

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

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

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)

Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Antimony	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-10	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-21	Antimony	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-27	Antimony	0.418	1e-06	8	7	Not normal
WBW-1 (Background)	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results
Pooled Background	Arsenic	0.543	5.3e-11	48	42	Not normal
WAP-1 (Background)	Arsenic	0.648	1.6e-06	25	19	Not normal
WAP-10	Arsenic	0.603	4.6e-07	25	12	Not normal
WAP-21	Arsenic	0.512	1.1e-07	23	20	Not normal
WAP-27	Arsenic	0.913	0.37	8	0	Normal
WBW-1 (Background)	Arsenic	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Barium	0.853	2.7e-05	48	0	Not normal
WAP-1 (Background)	Barium	0.940	0.15	25	0	Normal
WAP-10	Barium	0.914	0.037	25	0	Not normal
WAP-21	Barium	0.834	0.0014	23	0	Not normal
WAP-27	Barium	0.937	0.58	8	0	Normal
WBW-1 (Background)	Barium	0.747	6.1e-05	23	0	Not normal
Pooled Background	Beryllium	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-10	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-21	Beryllium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-27	Beryllium	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-10	Cadmium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-21	Cadmium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-27	Cadmium	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Cadmium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.133	5.4e-15	46	45	Not normal
WAP-1 (Background)	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-10	Chromium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-21	Chromium	0.371	4.4e-08	19	18	Not normal
WAP-27	Chromium	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Chromium	0.221	7.4e-10	22	21	Not normal
Pooled Background	Cobalt	0.447	6.2e-12	46	28	Not normal
WAP-1 (Background)	Cobalt	0.729	3.4e-05	23	13	Not normal
WAP-10	Cobalt	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-21	Cobalt	0.519	1.3e-07	23	19	Not normal
WAP-27	Cobalt	0.715	0.0034	8	5	Not normal
WBW-1 (Background)	Cobalt	0.489	6.8e-08	23	15	Not normal
Pooled Background	Fluoride	0.266	4.1e-14	48	45	Not normal
WAP-1 (Background)	Fluoride	0.321	1.5e-09	24	22	Not normal
WAP-10	Fluoride	0.324	1.6e-09	24	22	Not normal
WAP-21	Fluoride	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-27	Fluoride	0.686	0.0016	8	4	Not normal
WBW-1 (Background)	Fluoride	0.209	2.2e-10	24	23	Not normal
Pooled Background	Lead	0.519	4.5e-11	46	42	Not normal
WAP-1 (Background)	Lead	0.560	2.3e-07	24	20	Not normal
WAP-10	Lead	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-21	Lead	0.491	4.1e-07	19	16	Not normal
WAP-27	Lead	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Lead	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Lithium	0.616	9.9e-10	46	44	Not normal
WAP-1 (Background)	Lithium	0.611	1.2e-06	23	22	Not normal
WAP-10	Lithium	0.801	0.0003	24	0	Not normal
WAP-21	Lithium	0.408	1.3e-08	23	22	Not normal
WAP-27	Lithium	0.887	0.22	8	2	Normal
WBW-1 (Background)	Lithium	0.629	1.9e-06	23	22	Not normal
Pooled Background	Mercury	0.142	2.8e-14	42	41	Not normal
WAP-1 (Background)	Mercury	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-10	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-21	Mercury	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-27	Mercury	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Mercury	0.228	1.4e-09	21	20	Not normal
Pooled Background	Molybdenum	NA	NA	46	46	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-10	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-21	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
WAP-27	Molybdenum	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Molybdenum	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Radium-226 & 228	0.891	0.00045	46	12	Not normal
WAP-1 (Background)	Radium-226 & 228	0.834	0.0014	23	5	Not normal
WAP-10	Radium-226 & 228	0.924	0.079	23	0	Normal
WAP-21	Radium-226 & 228	0.843	0.002	23	4	Not normal
WAP-27	Radium-226 & 228	0.892	0.24	8	0	Normal
WBW-1 (Background)	Radium-226 & 228	0.894	0.019	23	7	Not normal
Pooled Background	Selenium	NA	NA	46	46	Not Evaluated - All Non-Detect Results

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

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)
WAP-1 (Background)	Selenium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-10	Selenium	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-21	Selenium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-27	Selenium	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Selenium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	42	42	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-10	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-21	Thallium	NA	NA	19	19	Not Evaluated - All Non-Detect Results
WAP-27	Thallium	NA	NA	8	8	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results

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

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
Pooled Background	Antimony	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Antimony	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Antimony	8	7	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Arsenic	48	42	Rosner	3.523, 3.198, 3.478	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Arsenic	25	19	Dixon	0.2826	0.4965	NA	NA	No	No
WAP-10	Arsenic	25	12	Dixon	0.4444	0.05051	NA	NA	No	No
WAP-21	Arsenic	23	20	Dixon	0.8993	0	NA	NA	Yes	No
WAP-27	Arsenic	8	0	Dixon	0.131	0.6472	NA	NA	No	No
WBW-1	Arsenic	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Barium	48	0	Rosner	2.654, 2.329, 2.509	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Barium	25	0	Dixon	0.1511	0.6865	NA	NA	No	No
WAP-10	Barium	25	0	Dixon	0.5741	0	NA	NA	Yes	No
WAP-21	Barium	23	0	Dixon	0.5822	0	NA	NA	Yes	No
WAP-27	Barium	8	0	Dixon	0.3075	0.6342	NA	NA	No	No
WBW-1	Barium	23	0	Dixon	0.4943	0.02517	NA	NA	Yes	No
Pooled Background	Beryllium	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Beryllium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Beryllium	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Cadmium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Cadmium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Cadmium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Cadmium	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Cadmium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Chromium	46	45	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Chromium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Chromium	19	18	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-27	Chromium	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Chromium	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Cobalt	46	28	Rosner	5.931, 4.175, 3.556	NA	3.094, 3.085, 3.076	3	NA	No
WAP-1	Cobalt	23	13	Dixon	0.1727	0.7719	NA	NA	No	No
WAP-10	Cobalt	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Cobalt	23	19	Dixon	0.8095	0	NA	NA	Yes	No
WAP-27	Cobalt	8	5	Dixon	0.4	0.362	NA	NA	No	No
WBW-1	Cobalt	23	15	Dixon	0.7716	0	NA	NA	Yes	No
Pooled Background	Fluoride	48	45	Rosner	5.396, 6.71, NA	NA	3.112, 3.103, 3.094	2	NA	No
WAP-1	Fluoride	24	22	Dixon	1	0	NA	NA	Yes	No
WAP-10	Fluoride	24	22	Dixon	1	0	NA	NA	Yes	No
WAP-21	Fluoride	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Fluoride	8	4	Dixon	0.8	0	NA	NA	Yes	No
WBW-1	Fluoride	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Lead	46	42	Rosner	3.522, 4.201, 5.53	NA	3.094, 3.085, 3.076	3	NA	No
WAP-1	Lead	24	20	Dixon	0.8333	0	NA	NA	Yes	No
WAP-10	Lead	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Lead	19	16	Dixon	0.85	0	NA	NA	Yes	No
WAP-27	Lead	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Lead	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Lithium	46	44	Rosner	1.754, 1.838, 1.936	NA	3.094, 3.085, 3.076	0	NA	No
WAP-1	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-10	Lithium	24	0	Dixon	0.1927	0.9432	NA	NA	No	No
WAP-21	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-27	Lithium	8	2	Dixon	0.4695	0.2163	NA	NA	No	No
WBW-1	Lithium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Mercury	42	41	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Mercury	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Mercury	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Mercury	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Mercury	21	20	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Molybdenum	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Molybdenum	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Molybdenum	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Radium-226 & 228	46	12	Rosner	2.045, 1.941, 1.89	NA	3.094, 3.085, 3.076	0	NA	No
WAP-1	Radium-226 & 228	23	5	Dixon	0.2022	0.9681	NA	NA	No	No
WAP-10	Radium-226 & 228	23	0	Dixon	0.2905	0.5162	NA	NA	No	No
WAP-21	Radium-226 & 228	23	4	Dixon	0.1484	0.615	NA	NA	No	No
WAP-27	Radium-226 & 228	8	0	Dixon	0.1923	0.9248	NA	NA	No	No
WBW-1	Radium-226 & 228	23	7	Dixon	0.1449	0.5931	NA	NA	No	No
Pooled Background	Selenium	46	46	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Selenium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Selenium	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No

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

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
WAP-21	Selenium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Selenium	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Selenium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Thallium	42	42	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Thallium	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Thallium	8	8	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall Test

		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)										
Mann Kendall Trends		Trends, All Data		Trends, Recent Data		n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	
Pooled Background	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0.74	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.765	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0.229	NA	NA	NA	NA	NA
WAP-10	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.793	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0.229	NA	NA	NA	NA	NA
WAP-21	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.35	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-07	1.57	NA	NA	NA	NA	NA
WAP-27	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	8	1	0.39	NA	NA	NA	NA	8	1	2023-03-02 to 2025-03-06	0.39	NA	NA	NA	NA	NA
WBW-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.733	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Stable	Stable	Stable	48	6	0.621	NA	NA	NA	NA	8	3	2022-07-06 to 2025-02-18	0.709	-0.161	0.69	31	-4	
WAP-1 (Background)	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	No Trend	No Trend	25	6	0.65	NA	NA	NA	NA	8	5	2019-05-30 to 2025-02-18	0.521	0.189	0.61	39	5	
WAP-10	Arsenic	Decreasing	No Trend	No Trend	No Trend	25	13	1.68	-0.333	0.0293	97.1	-90	8	3	2019-05-30 to 2025-02-25	1.92	0	1	0	0	
WAP-21	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	No Trend	No Trend	23	3	0.864	NA	NA	NA	NA	8	3	2019-06-11 to 2025-03-07	0.88	0.222	0.53	47	6	
WAP-27	Arsenic	No Trend	No Trend	No Trend	No Trend	8	8	0.179	0.214	0.536	46.4	6	8	8	2023-03-02 to 2025-03-06	0.179	0.214	0.536	46.4	6	
WBW-1 (Background)	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.201	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.267	NA	NA	NA	NA	NA
Pooled Background	Barium	Increasing	Stable	Stable	Stable	48	48	0.779	0.297	0.00307	99.7	334	8	8	2022-07-06 to 2025-02-18	0.594	-0.5	0.108	89.2	-14	
WAP-1 (Background)	Barium	Increasing	Stable	Stable	Stable	25	25	0.632	0.471	0.00107	99.9	141	8	8	2019-05-30 to 2025-02-18	0.256	-0.0364	1	0	-1	
WAP-10	Barium	Stable	Stable	Stable	Stable	25	25	0.151	-0.117	0.427	57.3	-35	8	8	2019-05-30 to 2025-02-25	0.179	-0.143	0.711	28.9	-4	
WAP-21	Barium	Decreasing	Increasing	Increasing	Increasing	23	23	0.545	-0.486	0.00127	99.9	-123	8	8	2019-06-11 to 2025-03-07	0.406	0.643	0.0354	96.5	18	
WAP-27	Barium	Stable	Stable	Stable	Stable	8	8	0.108	-0.143	0.711	28.9	-4	8	8	2023-03-02 to 2025-03-06	0.108	-0.143	0.711	28.9	-4	
WBW-1 (Background)	Barium	No Trend	Stable	Stable	Stable	23	23	0.62	0.159	0.303	69.7	40	8	8	2019-05-30 to 2025-02-18	0.492	-0.357	0.266	73.4	-10	
Pooled Background	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-10	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0	NA	NA	NA	NA	NA
WAP-21	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.4	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-07	1.5	NA	NA	NA	NA	NA
WAP-27	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-10	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0	NA	NA	NA	NA	NA
WAP-21	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.4	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-07	1.5	NA	NA	NA	NA	NA
WAP-27	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	1	0.144	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-10	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0	NA	NA	NA	NA	NA

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

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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-21	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	19	1	1.54	NA	NA	NA	NA	8	1	2017-09-21 to 2025-03-07	1.33	NA	NA	NA	NA
WAP-27	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0	NA	NA	NA	NA
WBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.204	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-18	0.314	NA	NA	NA	NA
Pooled Background	Cobalt	Increasing	Stable	46	18	1.66	0.532	0.00000226	100	439	8	8	2022-07-06 to 2025-02-18	0.556	-0.357	0.266	73.4	-10
WAP-1 (Background)	Cobalt	Increasing	Probably Decreasing	23	10	0.8	0.537	0.00103	99.9	113	8	8	2019-05-30 to 2025-02-18	0.401	-0.571	0.0635	93.7	-16
WAP-10	Cobalt	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0	NA	NA	NA	NA
WAP-21	Cobalt	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	23	4	1.53	NA	NA	NA	NA	8	3	2019-06-11 to 2025-03-07	0.968	0.242	0.507	49.3	6
WAP-27	Cobalt	No Trend	No Trend	8	3	0.57	0.178	0.667	33.3	4	8	3	2023-03-02 to 2025-03-06	0.57	0.178	0.667	33.3	4
WBW-1 (Background)	Cobalt	Decreasing	Decreasing	23	8	1.78	0.517	0.00199	99.8	100	8	8	2019-05-30 to 2025-02-18	1.06	-0.714	0.0187	98.1	-20
Pooled Background	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	48	3	0.338	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	2	0.421	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
WAP-10	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	2	0.427	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0	NA	NA	NA	NA
WAP-21	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2019-06-11 to 2025-03-07	0	NA	NA	NA	NA
WAP-27	Fluoride	No Trend	No Trend	8	4	0.911	0.403	0.232	76.8	10	8	4	2023-03-02 to 2025-03-06	0.911	0.403	0.232	76.8	10
WBW-1 (Background)	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.196	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0	NA	NA	NA	NA
Pooled Background	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	46	4	1.12	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0.505	NA	NA	NA	NA
WAP-1 (Background)	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	24	4	1.06	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.497	NA	NA	NA	NA
WAP-10	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	1.11	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0.497	NA	NA	NA	NA
WAP-21	Lead	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	19	3	1.59	NA	NA	NA	NA	8	3	2017-09-21 to 2025-03-07	1.24	0	1	0	0
WAP-27	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0.447	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0.447	NA	NA	NA	NA
WBW-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	1.21	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	1.13	NA	NA	NA	NA
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	46	2	0.366	NA	NA	NA	NA	8	1	2022-07-06 to 2025-02-18	0.764	NA	NA	NA	NA
WAP-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.406	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.37	NA	NA	NA	NA
WAP-10	Lithium	Increasing	Probably Increasing	24	24	0.458	0.318	0.0326	96.7	87	8	8	2020-02-04 to 2025-02-25	0.343	0.571	0.0635	93.7	16
WAP-21	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.697	NA	NA	NA	NA	8	1	2019-06-11 to 2025-03-07	1.17	NA	NA	NA	NA
WAP-27	Lithium	No Trend	No Trend	8	6	0.715	0.473	0.135	86.5	13	8	6	2023-03-02 to 2025-03-06	0.715	0.473	0.135	86.5	13
WBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	23	1	0.332	NA	NA	NA	NA	8	1	2019-05-30 to 2025-02-18	0.647	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	42	1	0.151	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA
WAP-10	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0	NA	NA	NA	NA
WAP-21	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-07	0	NA	NA	NA	NA
WAP-27	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0	NA	NA	NA	NA
WBW-1 (Background)	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	21	1	0.208	NA	NA	NA	NA	8	1	2019-01-23 to 2025-02-18	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.666	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA
WAP-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.258	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.37	NA	NA	NA	NA

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

		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									
Mann Kendall Trends		Trends, All Data		Trends, Recent Data		n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-10	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.258	NA	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0.37	NA	NA	NA	NA	NA
WAP-21	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.829	NA	NA	NA	NA	NA	8	0	2019-06-11 to 2025-03-07	0.376	NA	NA	NA	NA	NA
WAP-27	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0.314	NA	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0.314	NA	NA	NA	NA	NA
WBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.829	NA	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.376	NA	NA	NA	NA	NA
Pooled Background	Radium-226 & 228	Stable	Stable	46	34	0.559	-0.141	0.179	82.1	-142	NA	8	8	2022-07-06 to 2025-02-18	0.427	-0.286	0.386	61.4	-8	
WAP-1 (Background)	Radium-226 & 228	Stable	Stable	23	18	0.554	-0.19	0.222	77.8	-47	NA	8	8	2019-05-30 to 2025-02-18	0.508	-0.143	0.711	28.9	-4	
WAP-10	Radium-226 & 228	Stable	No Trend	23	23	0.329	-0.246	0.107	89.3	-62	NA	8	8	2019-05-30 to 2025-02-25	0.474	0.0714	0.902	9.8	2	
WAP-21	Radium-226 & 228	Decreasing	Stable	23	19	0.607	-0.329	0.0318	96.8	-82	NA	8	8	2019-06-11 to 2025-03-06	0.6	0	1	0	0	
WAP-27	Radium-226 & 228	No Trend	No Trend	8	8	0.288	0.214	0.536	46.4	6	NA	8	8	2023-03-02 to 2025-03-06	0.288	0.214	0.536	46.4	6	
WBW-1 (Background)	Radium-226 & 228	Stable	Stable	23	16	0.558	-0.0776	0.631	36.9	-19	NA	8	8	2019-05-30 to 2025-02-18	0.52	-0.0714	0.902	9.8	-2	
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	46	0	0.388	NA	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0.37	NA	NA	NA	NA	NA
WAP-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.373	NA	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.524	NA	NA	NA	NA	NA
WAP-10	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.373	NA	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-25	0.524	NA	NA	NA	NA	NA
WAP-21	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0.425	NA	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-07	0.505	NA	NA	NA	NA	NA
WAP-27	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0.314	NA	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0.314	NA	NA	NA	NA	NA
WBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.41	NA	NA	NA	NA	NA	8	0	2019-05-30 to 2025-02-18	0.572	NA	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	42	0	0.142	NA	NA	NA	NA	NA	8	0	2022-07-06 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.205	NA	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA
WAP-10	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	0	NA	NA	NA	NA	NA	8	0	2017-09-18 to 2025-02-25	0	NA	NA	NA	NA	NA
WAP-21	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	19	0	1.4	NA	NA	NA	NA	NA	8	0	2017-09-21 to 2025-03-07	1.5	NA	NA	NA	NA	NA
WAP-27	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	8	0	0	NA	NA	NA	NA	NA	8	0	2023-03-02 to 2025-03-06	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	NA	8	0	2019-01-23 to 2025-02-18	0	NA	NA	NA	NA	NA

Note:

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

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

Constituent	Units	n	n, non-detects	Interwell Background Data Characterization [a]									Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		Minimum Coverage (%)		
				max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source		UTL calculation method	UTL calculation details
Antimony	mg/L	40	40	0.025	NA	0.00593	0.005	2015-11-10	2024-07-01	0.00446	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Arsenic	mg/L	46	40	0.005	0.0096	0.00496	0.005	2015-11-10	2024-07-01	0.00135	0.271	Increasing	Not normal (Interwell Background)	NA - Original Data	0.0096	Yes	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Barium	mg/L	46	0	NA	0.094	0.0307	0.0214	2015-11-10	2024-07-01	0.0243	0.789	Increasing	Not normal (Interwell Background)	NA - Original Data	0.094	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Beryllium	mg/L	40	40	0.0005	NA	0.0005	0.0005	2015-11-10	2024-07-01	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Cadmium	mg/L	44	44	0.0005	NA	0.0005	0.0005	2015-11-10	2024-07-01	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Chromium	mg/L	44	43	0.005	0.005	0.005	0.005	2015-11-10	2024-07-01	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Cobalt	mg/L	44	28	0.0005	0.00838	0.000956	0.0005	2015-11-10	2024-07-01	0.00128	1.34	Increasing	Not normal (Interwell Background)	NA - Original Data	0.00838	Yes	0.006	0.00838	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Fluoride	mg/L	46	43	0.1	0.14	0.102	0.1	2015-11-10	2024-07-01	0.00729	0.0718	Stable	Not normal (Interwell Background)	NA - Original Data	0.14	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.7
Lead	mg/L	44	40	0.01	0.00456	0.00206	0.001	2015-11-10	2024-07-01	0.00231	1.12	No Trend	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Lithium	mg/L	44	42	0.01	0.0116	0.00901	0.01	2015-11-10	2024-07-01	0.00207	0.23	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.0116	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Mercury	µg/L	40	39	0.0002	0.0002	0.0002	0.0002	2015-11-10	2024-07-01	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8
Molybdenum	mg/L	44	44	0.05	NA	0.00989	0.01	2015-11-10	2024-07-01	0.00651	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Radium-226 & 228	pCi/L	44	12	4	5.97	3.15	4	2015-11-10	2024-07-01	1.51	0.48	Decreasing	Not normal (Interwell Background)	NA - Original Data	5.97	Yes	5	5.97	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Selenium	mg/L	44	44	0.02	NA	0.011	0.01	2015-11-10	2024-07-01	0.00436	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Thallium	mg/L	40	40	0.001	NA	0.000978	0.001	2015-11-10	2024-07-01	0.000142	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	92.8

Note:
 [a] Interwell background datasets are analyte specific and include data collected from background wells. Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
 [b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.
 [c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.
 Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

Location	Chemical	Units	Confidence Interval (CI) Dataset						CI Calculation [a]					SSL Confirmation		Non-Parametric CI Statistics	
			n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median	
WAP-10	Arsenic	mg/L	25	0.14	0.003	0.0055	0.0251	0.0396	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.0148	0.005	0.01	No	10000	0.005	
WAP-27	Arsenic	mg/L	8	0.122	0.0756	0.0907	0.0947	0.017	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	7	0.109	0.0805	0.01	Yes, SSL	NA	NA	
WAP-10	Lithium	mg/L	24	0.0706	0.019	0.026	0.0336	0.0154	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.0331	0.023	0.04	No	10000	0.026	

Note:

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

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

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

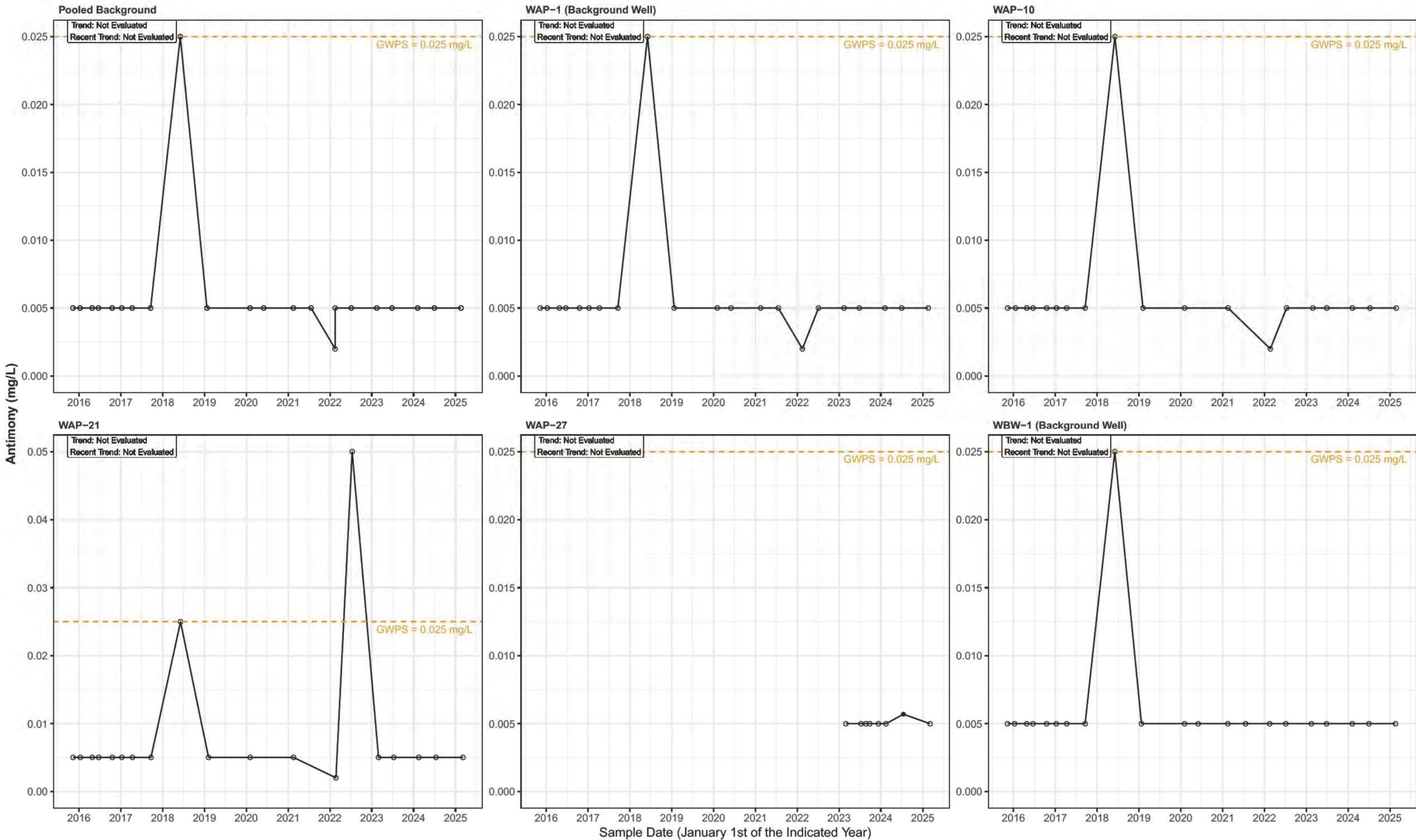
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-27	Arsenic	mg/L	2025-03-06	0.116	0.0096	0.01	Yes	0.0805	Yes
WAP-1	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-10	Antimony	mg/L	2025-02-25	0.005	0.025	0.025	No	NA	No
WAP-21	Antimony	mg/L	2025-03-07	0.005	0.025	0.025	No	NA	No
WAP-27	Antimony	mg/L	2025-03-06	0.005	0.025	0.025	No	NA	No
WBW-1	Antimony	mg/L	2025-02-18	0.005	0.025	0.025	No	NA	No
WAP-1	Arsenic	mg/L	2025-02-18	0.005	0.0096	0.01	No	NA	No
WAP-10	Arsenic	mg/L	2025-02-25	0.0148	0.0096	0.01	Yes	0.005	No
WAP-21	Arsenic	mg/L	2025-03-07	0.0064	0.0096	0.01	No	NA	No
WBW-1	Arsenic	mg/L	2025-02-18	0.005	0.0096	0.01	No	NA	No
WAP-1	Barium	mg/L	2025-02-18	0.0403	0.094	2	No	NA	No
WAP-10	Barium	mg/L	2025-02-25	0.171	0.094	2	No	NA	No
WAP-21	Barium	mg/L	2025-03-07	0.039	0.094	2	No	NA	No
WAP-27	Barium	mg/L	2025-03-06	0.125	0.094	2	No	NA	No
WBW-1	Barium	mg/L	2025-02-18	0.0161	0.094	2	No	NA	No
WAP-1	Beryllium	mg/L	2025-02-18	0.0005	0.0005	0.004	No	NA	No
WAP-10	Beryllium	mg/L	2025-02-25	0.0005	0.0005	0.004	No	NA	No
WAP-21	Beryllium	mg/L	2025-03-07	0.0005	0.0005	0.004	No	NA	No
WAP-27	Beryllium	mg/L	2025-03-06	0.0005	0.0005	0.004	No	NA	No
WBW-1	Beryllium	mg/L	2025-02-18	0.0005	0.0005	0.004	No	NA	No
WAP-1	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-10	Cadmium	mg/L	2025-02-25	0.0005	0.0005	0.005	No	NA	No
WAP-21	Cadmium	mg/L	2025-03-07	0.0005	0.0005	0.005	No	NA	No
WAP-27	Cadmium	mg/L	2025-03-06	0.0005	0.0005	0.005	No	NA	No
WBW-1	Cadmium	mg/L	2025-02-18	0.0005	0.0005	0.005	No	NA	No
WAP-1	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-10	Chromium	mg/L	2025-02-25	0.005	0.005	0.1	No	NA	No
WAP-21	Chromium	mg/L	2025-03-07	0.005	0.005	0.1	No	NA	No
WAP-27	Chromium	mg/L	2025-03-06	0.005	0.005	0.1	No	NA	No
WBW-1	Chromium	mg/L	2025-02-18	0.005	0.005	0.1	No	NA	No
WAP-1	Cobalt	mg/L	2025-02-18	0.00065	0.00838	0.00838	No	NA	No
WAP-10	Cobalt	mg/L	2025-02-25	0.0005	0.00838	0.00838	No	NA	No
WAP-21	Cobalt	mg/L	2025-03-07	0.0018	0.00838	0.00838	No	NA	No
WAP-27	Cobalt	mg/L	2025-03-06	0.0008	0.00838	0.00838	No	NA	No
WBW-1	Cobalt	mg/L	2025-02-18	0.00061	0.00838	0.00838	No	NA	No
WAP-1	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-10	Fluoride	mg/L	2025-02-25	0.1	0.14	4	No	NA	No
WAP-21	Fluoride	mg/L	2025-03-07	0.1	0.14	4	No	NA	No
WAP-27	Fluoride	mg/L	2025-03-06	0.101	0.14	4	No	NA	No
WBW-1	Fluoride	mg/L	2025-02-18	0.1	0.14	4	No	NA	No
WAP-1	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-10	Lead	mg/L	2025-02-25	0.001	0.01	0.015	No	NA	No
WAP-21	Lead	mg/L	2025-03-07	0.001	0.01	0.015	No	NA	No
WAP-27	Lead	mg/L	2025-03-06	0.001	0.01	0.015	No	NA	No
WBW-1	Lead	mg/L	2025-02-18	0.001	0.01	0.015	No	NA	No
WAP-1	Lithium	mg/L	2025-02-18	0.005	0.0116	0.04	No	NA	No
WAP-10	Lithium	mg/L	2025-02-25	0.0449	0.0116	0.04	Yes	0.023	No
WAP-21	Lithium	mg/L	2025-03-07	0.005	0.0116	0.04	No	NA	No
WAP-27	Lithium	mg/L	2025-03-06	0.0263	0.0116	0.04	No	NA	No
WBW-1	Lithium	mg/L	2025-02-18	0.005	0.0116	0.04	No	NA	No
WAP-1	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-10	Mercury	mg/L	2025-02-25	0.0002	0.0002	0.002	No	NA	No
WAP-21	Mercury	mg/L	2025-03-07	0.0002	0.0002	0.002	No	NA	No
WAP-27	Mercury	mg/L	2025-03-06	0.0002	0.0002	0.002	No	NA	No
WBW-1	Mercury	mg/L	2025-02-18	0.0002	0.0002	0.002	No	NA	No
WAP-1	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-10	Molybdenum	mg/L	2025-02-25	0.005	0.05	0.1	No	NA	No
WAP-21	Molybdenum	mg/L	2025-03-07	0.005	0.05	0.1	No	NA	No
WAP-27	Molybdenum	mg/L	2025-03-06	0.005	0.05	0.1	No	NA	No
WBW-1	Molybdenum	mg/L	2025-02-18	0.005	0.05	0.1	No	NA	No
WAP-1	Radium-226 & 228	pCi/L	2025-02-18	1.88	5.97	5.97	No	NA	No
WAP-10	Radium-226 & 228	pCi/L	2025-02-25	3.95	5.97	5.97	No	NA	No

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

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-21	Radium-226 & 228	pCi/L	2025-03-06	1.11	5.97	5.97	No	NA	No
WAP-27	Radium-226 & 228	pCi/L	2025-03-06	2.2	5.97	5.97	No	NA	No
WBW-1	Radium-226 & 228	pCi/L	2025-02-18	1.45	5.97	5.97	No	NA	No
WAP-1	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-10	Selenium	mg/L	2025-02-25	0.01	0.02	0.05	No	NA	No
WAP-21	Selenium	mg/L	2025-03-07	0.01	0.02	0.05	No	NA	No
WAP-27	Selenium	mg/L	2025-03-06	0.01	0.02	0.05	No	NA	No
WBW-1	Selenium	mg/L	2025-02-18	0.01	0.02	0.05	No	NA	No
WAP-1	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No
WAP-10	Thallium	mg/L	2025-02-25	0.001	0.001	0.002	No	NA	No
WAP-21	Thallium	mg/L	2025-03-07	0.001	0.001	0.002	No	NA	No
WAP-27	Thallium	mg/L	2025-03-06	0.001	0.001	0.002	No	NA	No
WBW-1	Thallium	mg/L	2025-02-18	0.001	0.001	0.002	No	NA	No

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

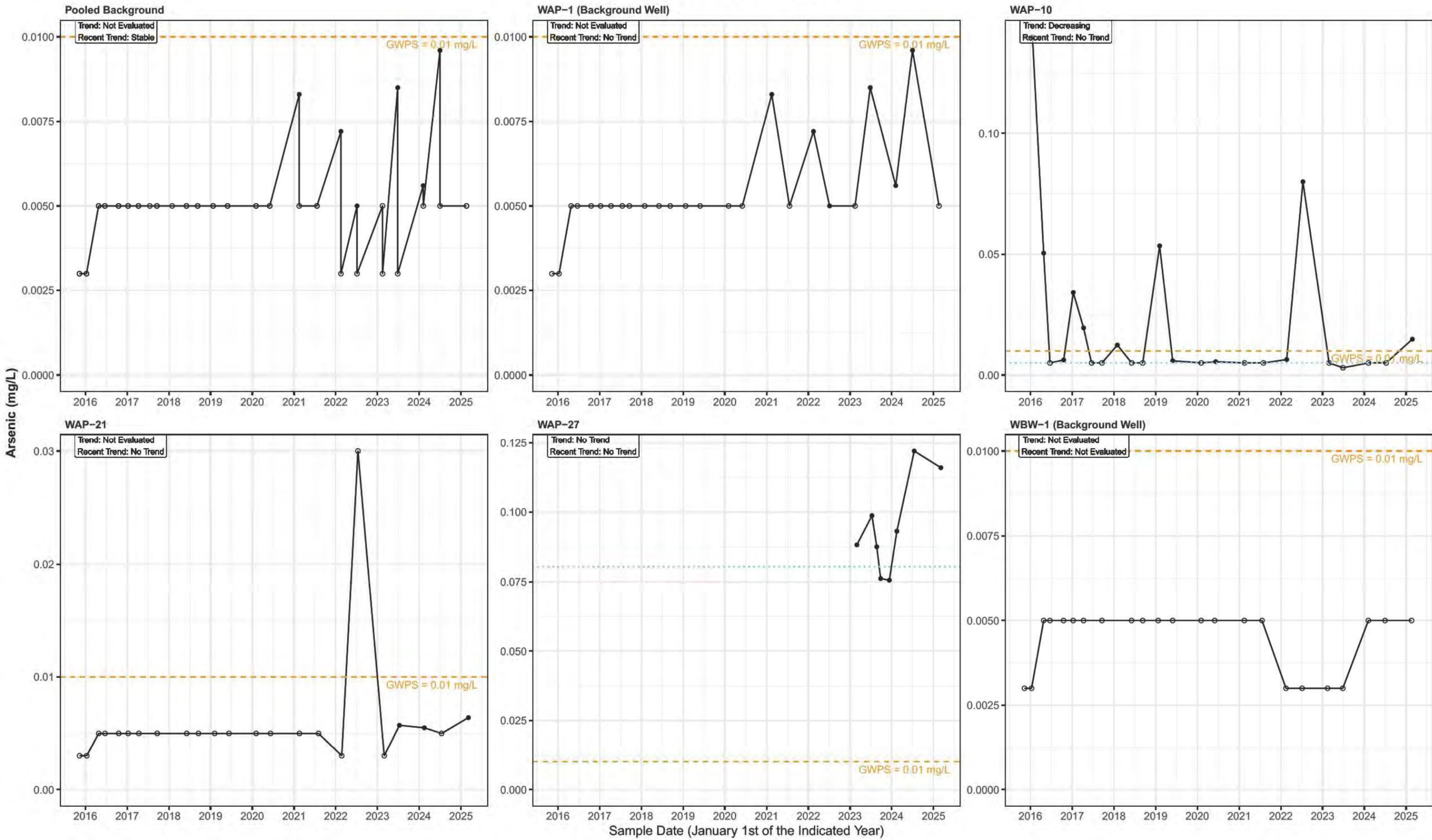
Trend Analysis for Antimony



Detection Status: ● Detect ○ Non-Detect

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

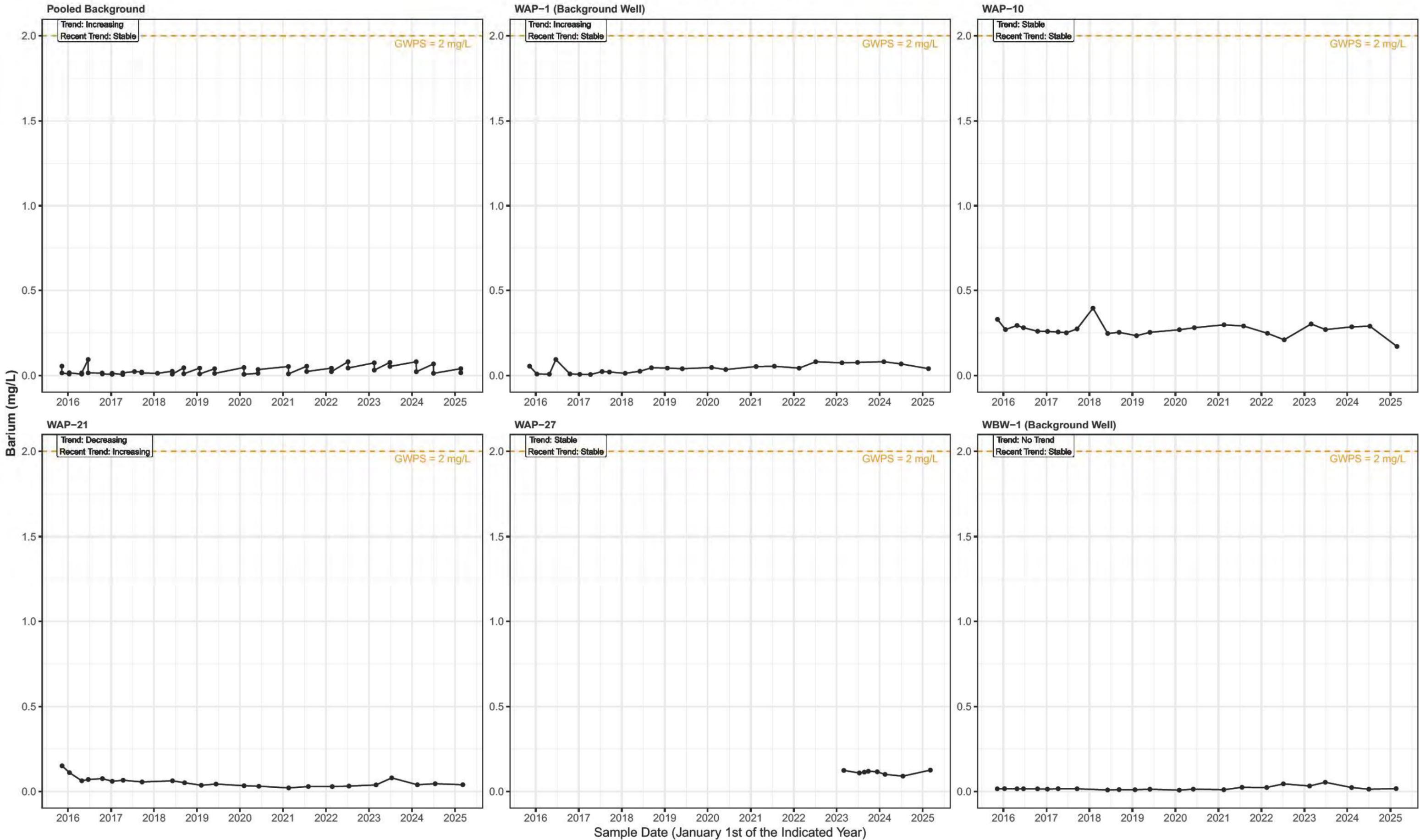
Trend Analysis Plots for Arsenic



--- GWPS
 ---- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

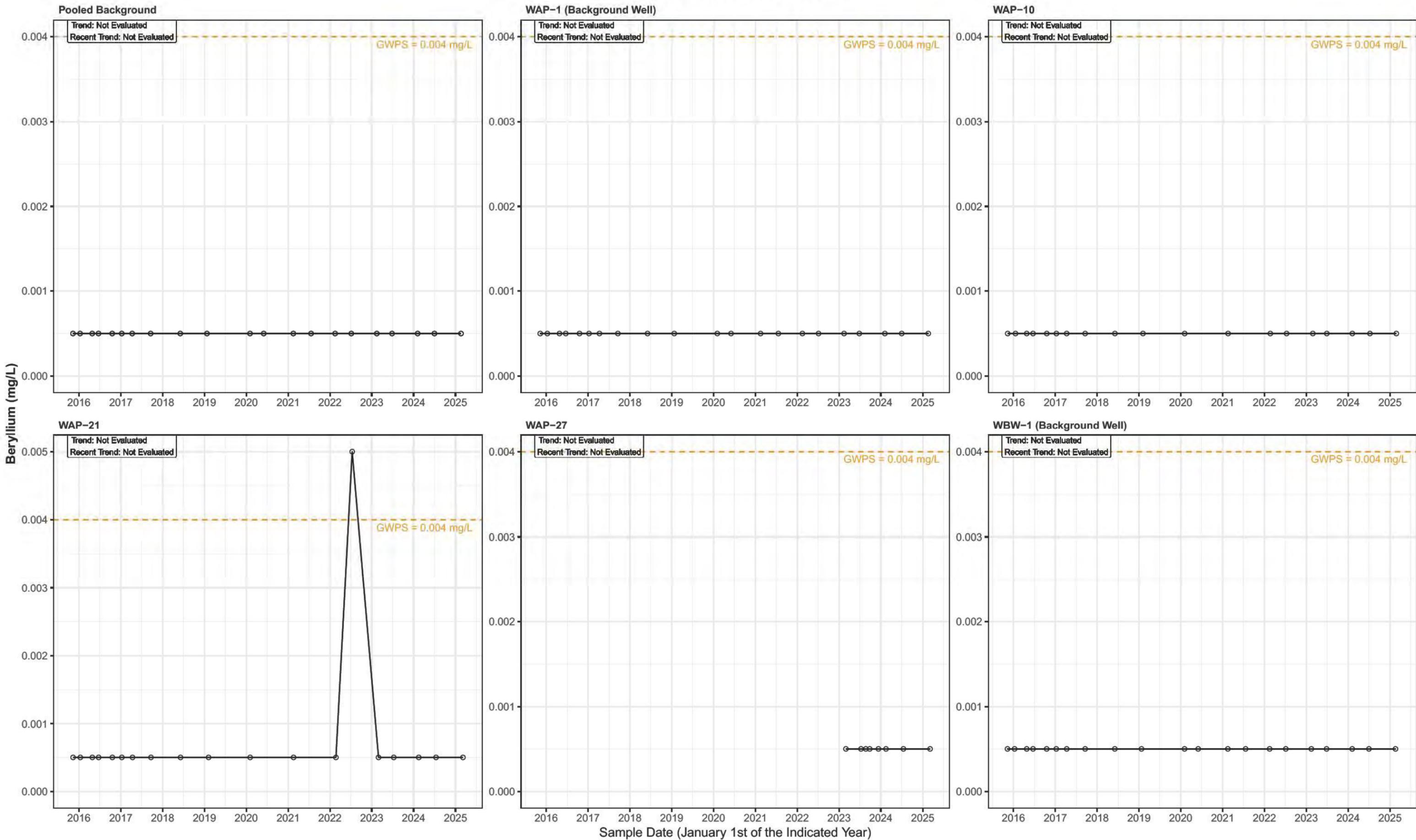
Trend Analysis for Barium



Detection Status: ● Detect

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

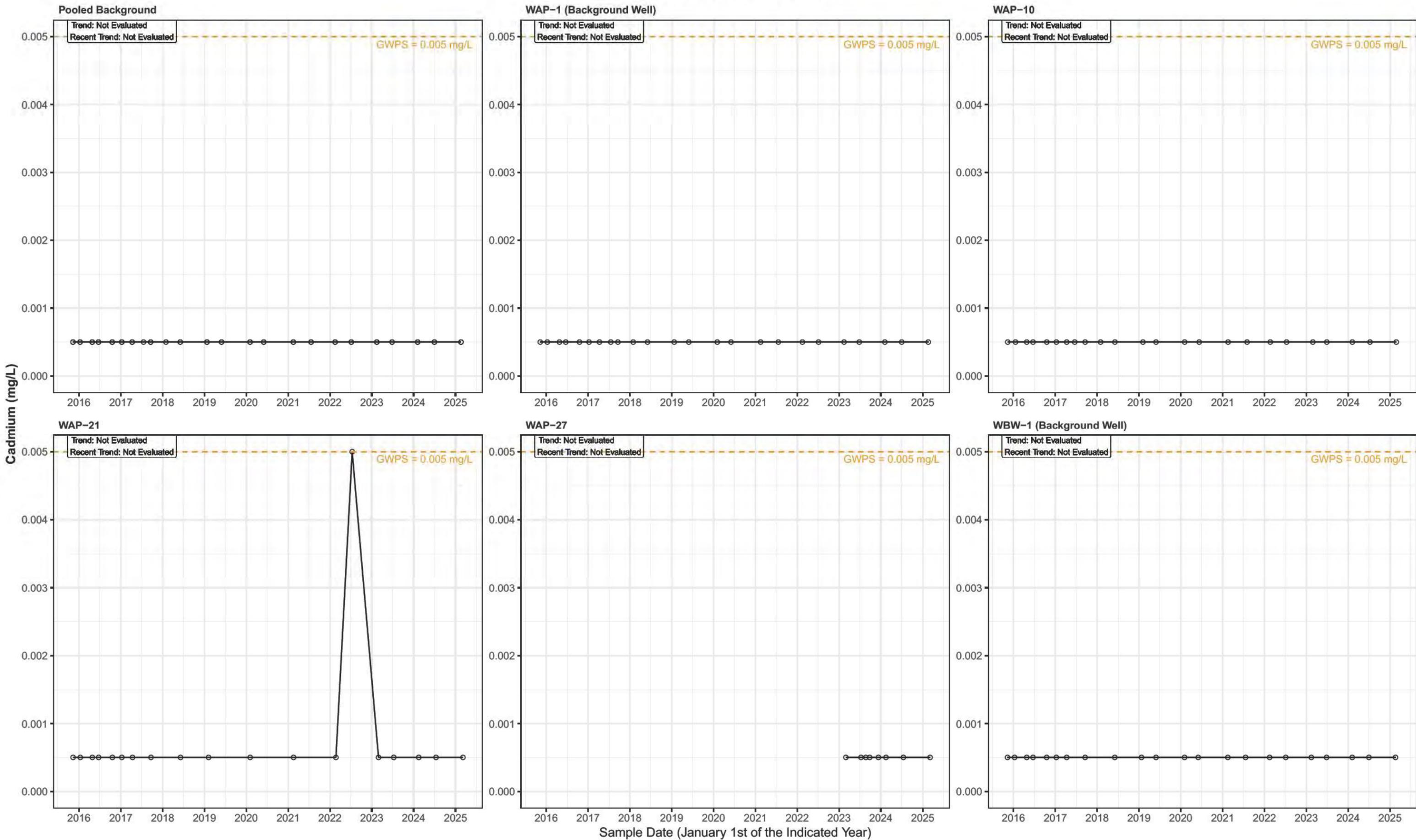
Trend Analysis for Beryllium



Detection Status: ○ Non-Detect

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

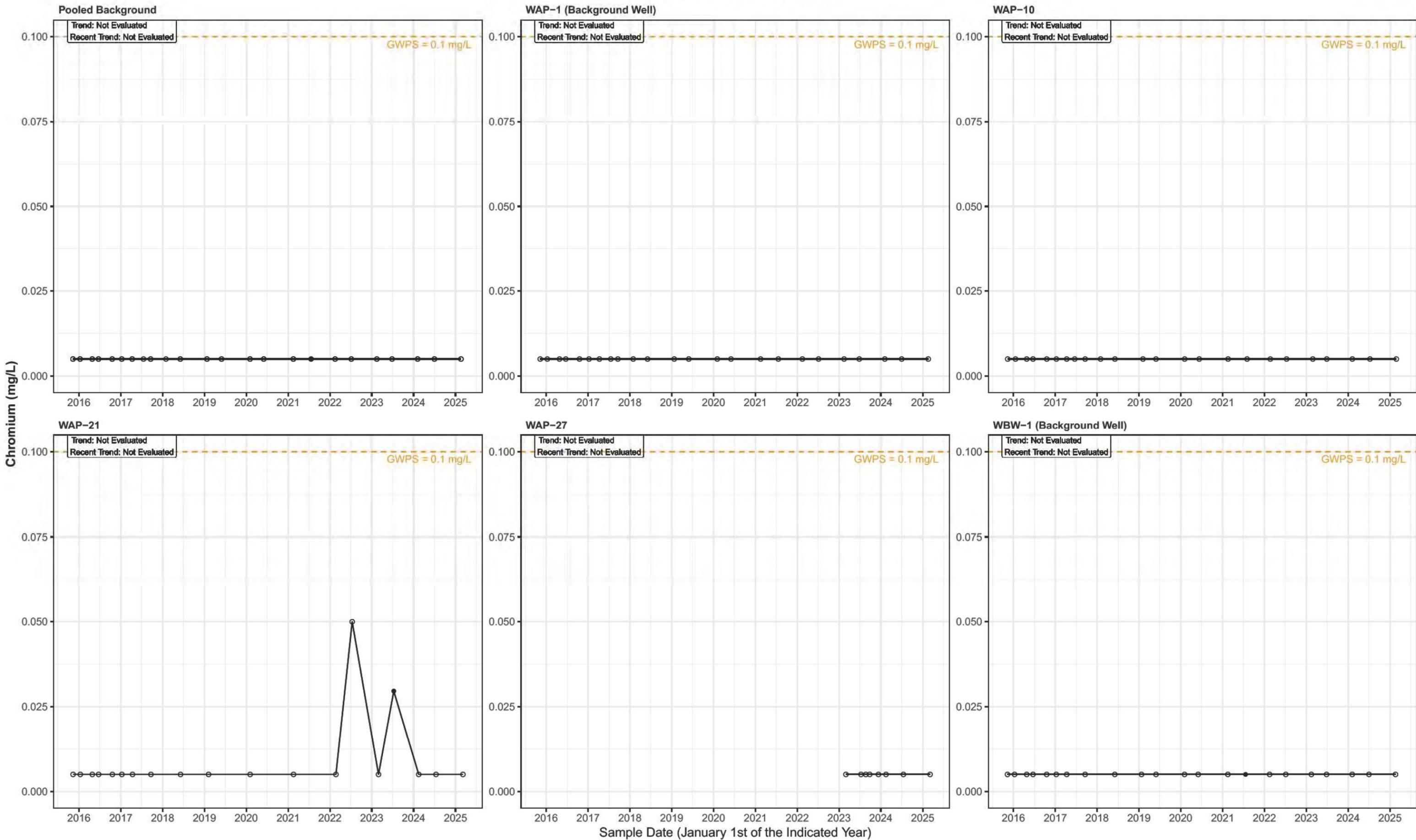
Trend Analysis for Cadmium



Detection Status: ○ Non-Detect

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

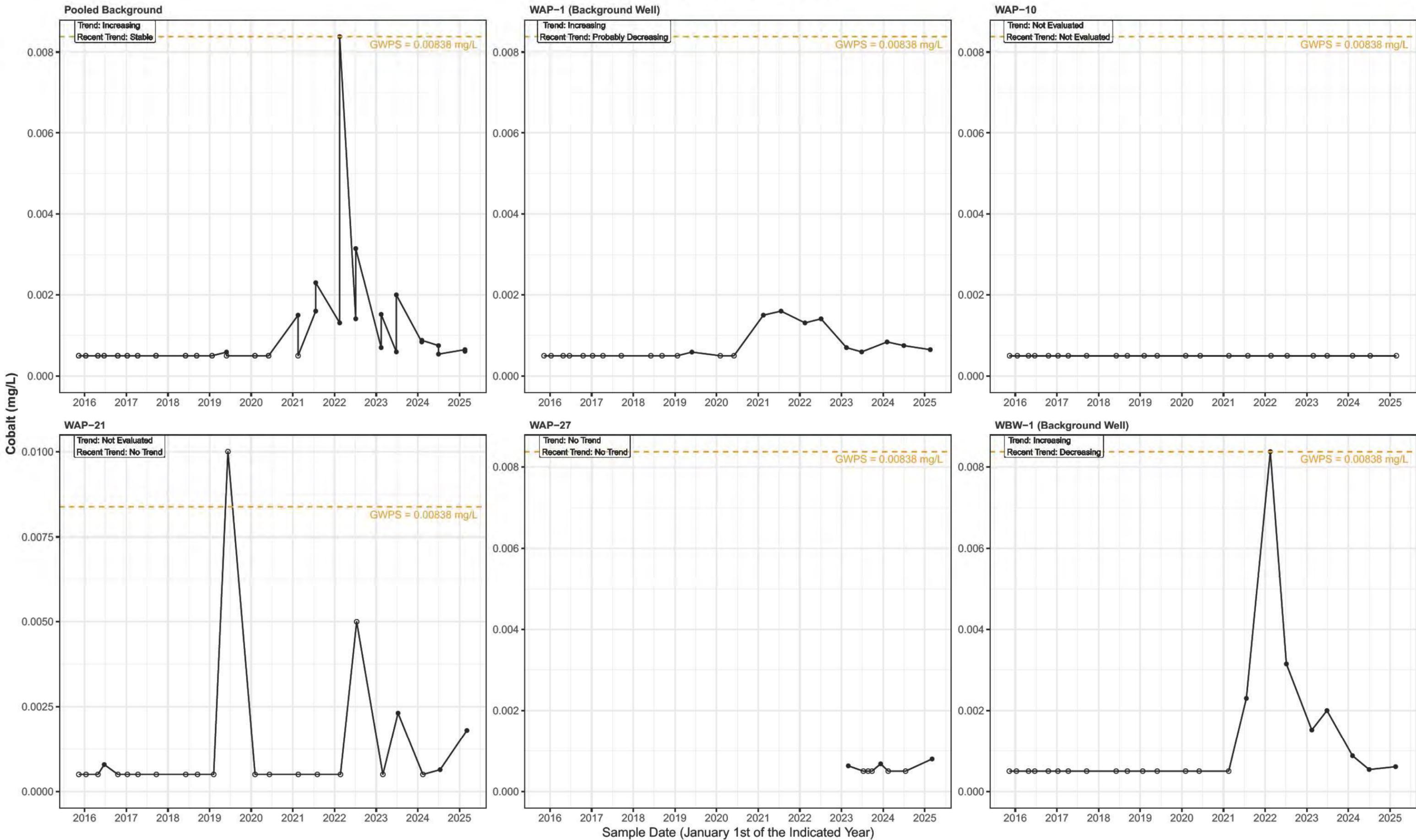
Trend Analysis for Chromium



Detection Status: ● Detect ○ Non-Detect

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

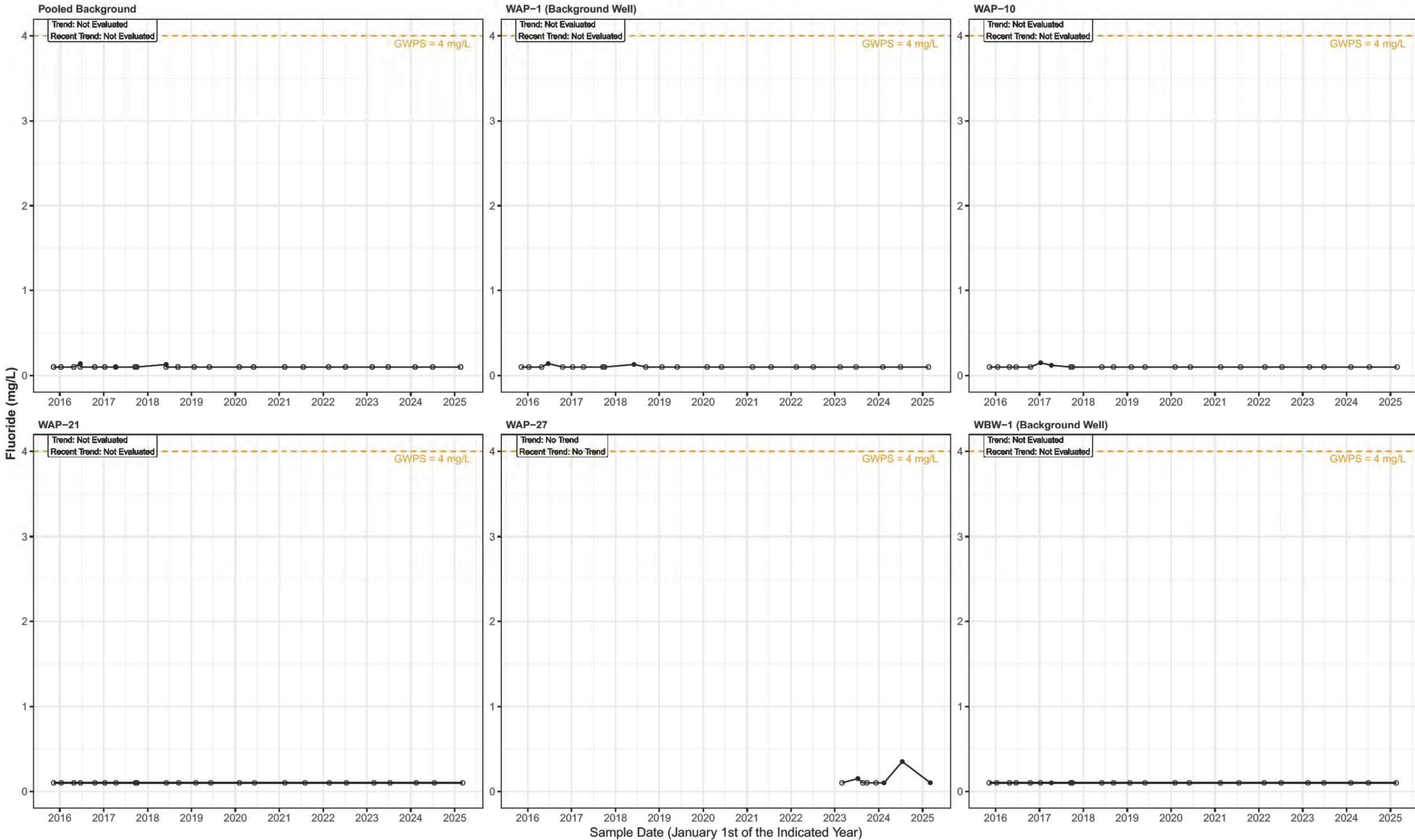
Trend Analysis for Cobalt



Detection Status: ● Detect ○ Non-Detect

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

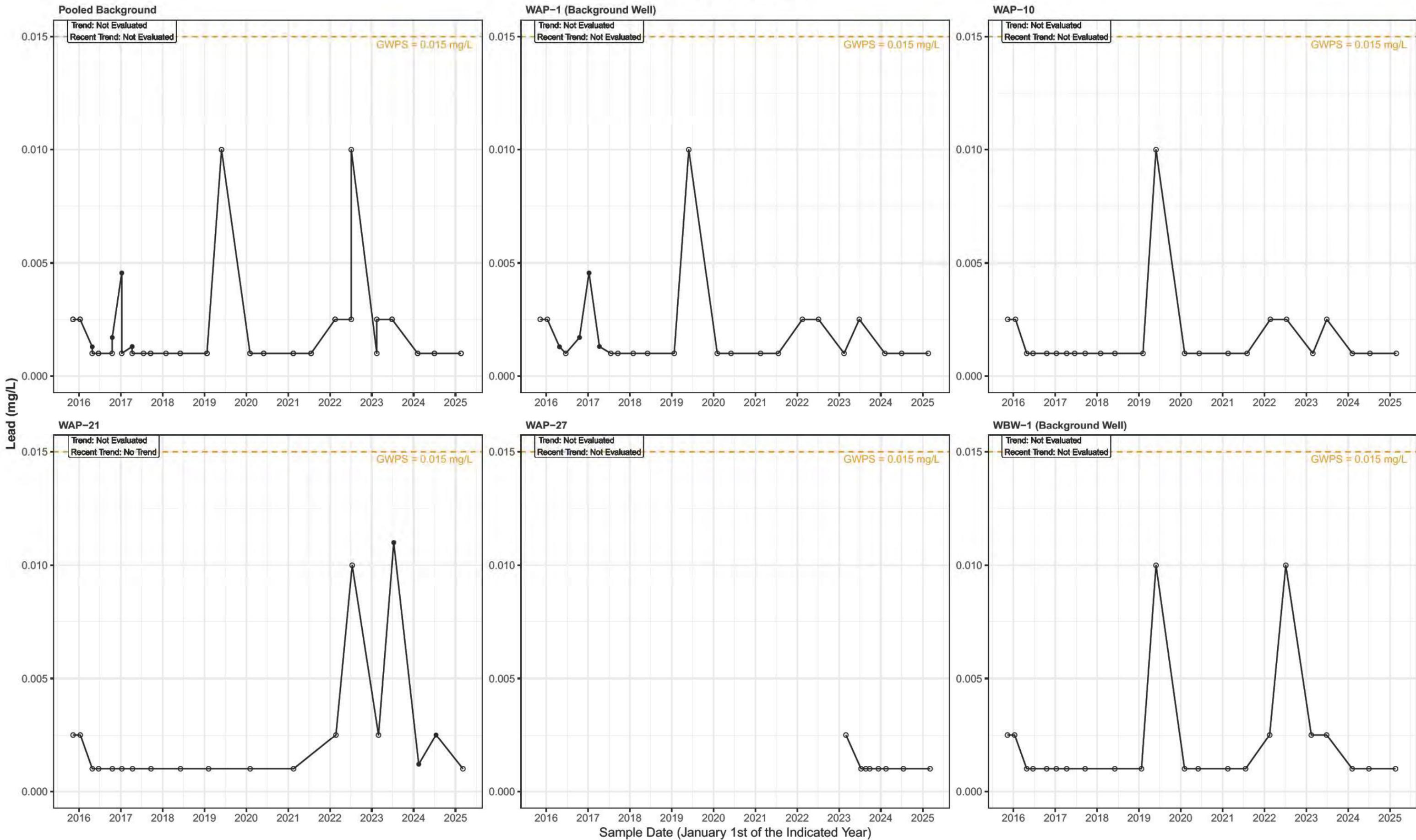
Trend Analysis for Fluoride



Detection Status: ● Detect ○ Non-Detect

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

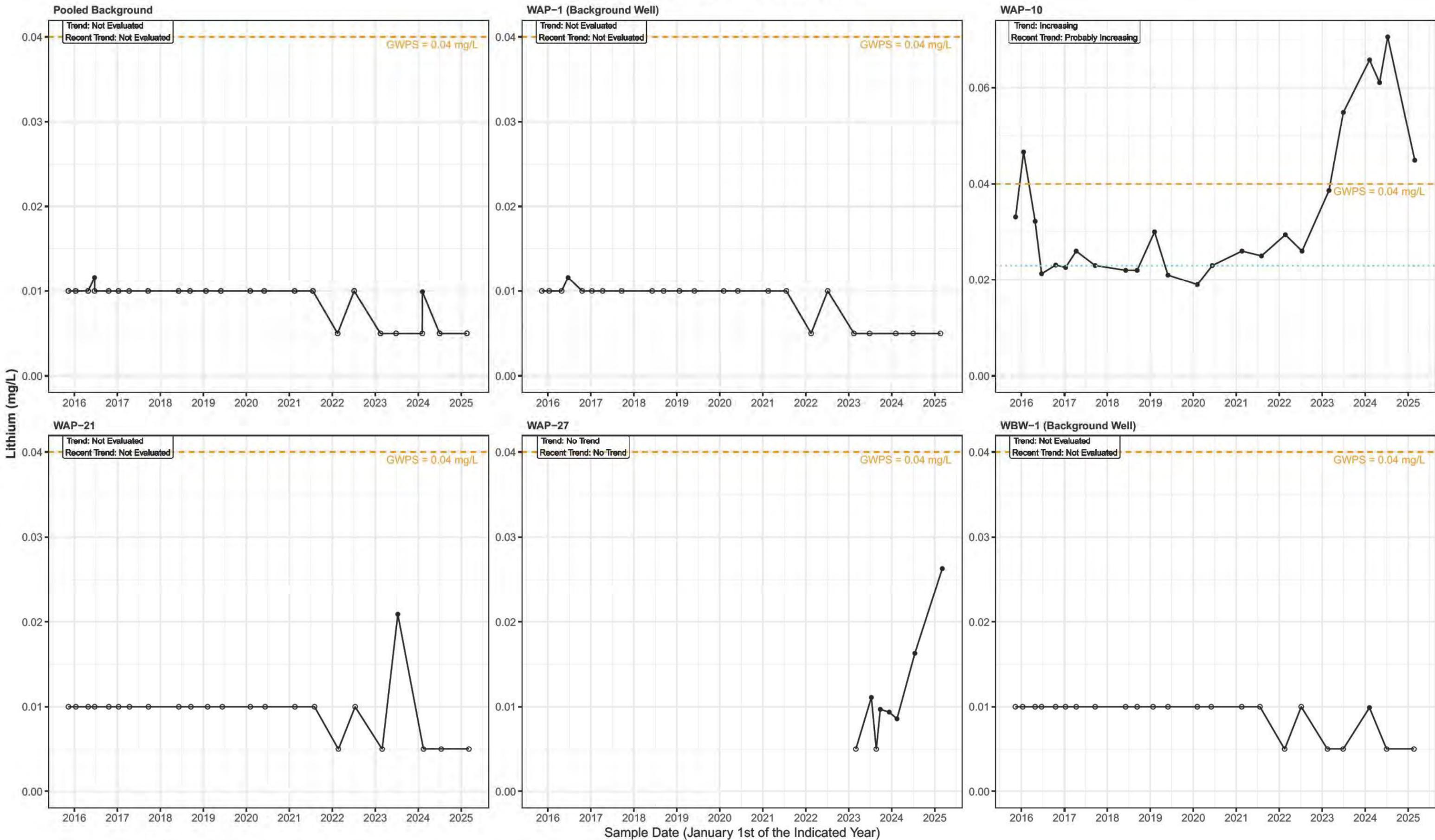
Trend Analysis for Lead



Detection Status: ● Detect ○ Non-Detect

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

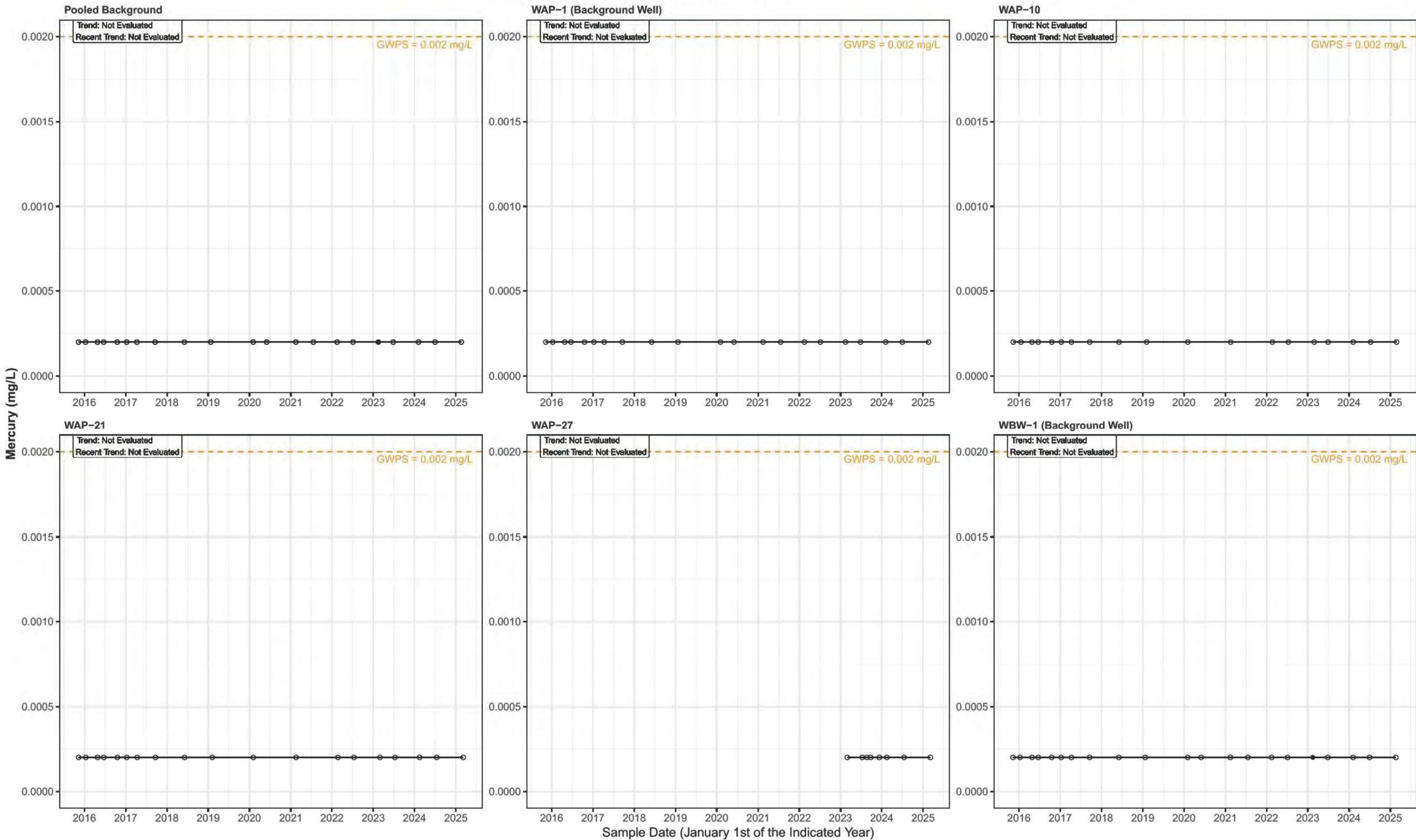
Trend Analysis Plots for Lithium



--- GWPS
 --- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

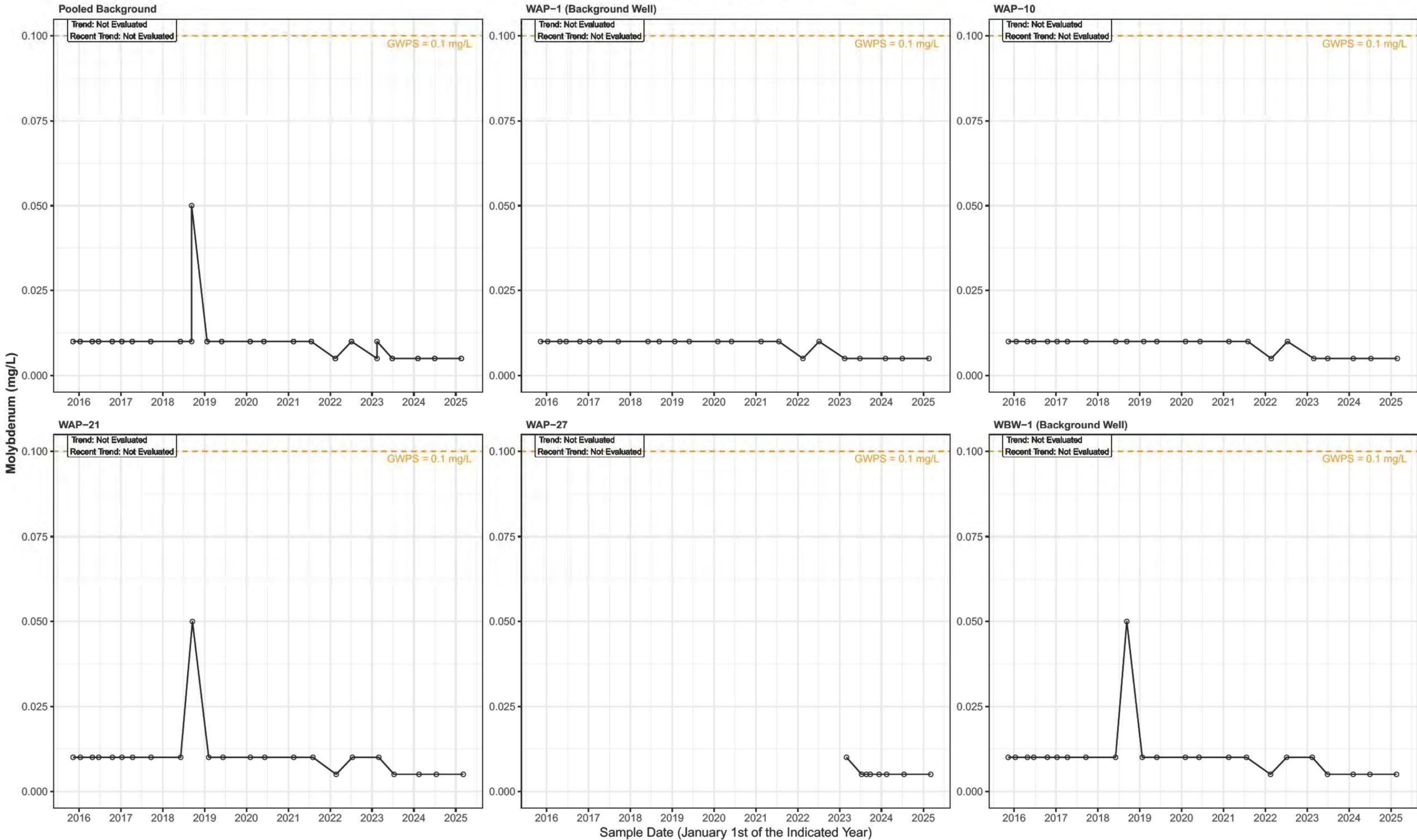
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non-Detect

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

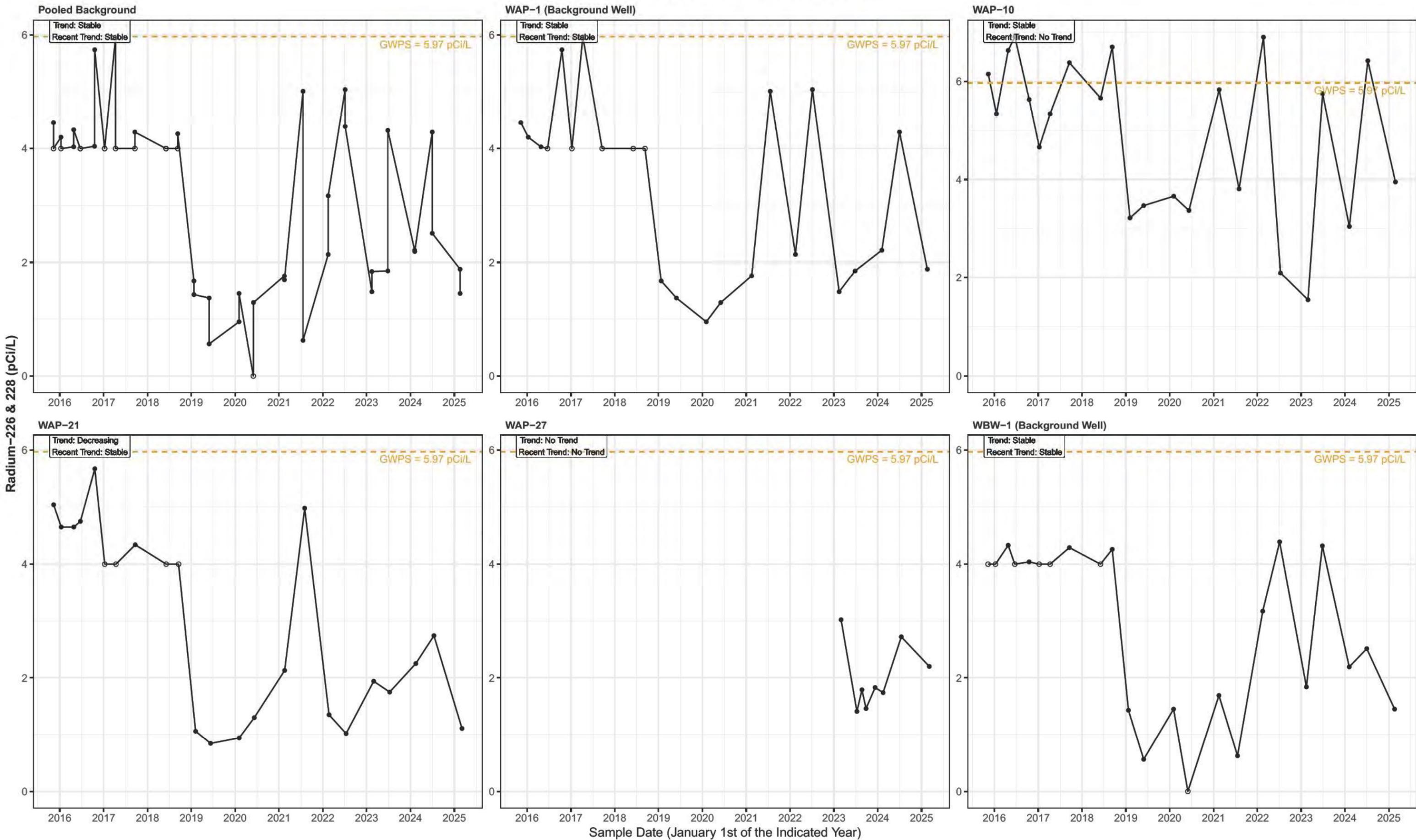
Trend Analysis for Molybdenum



Detection Status: ○ Non-Detect

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

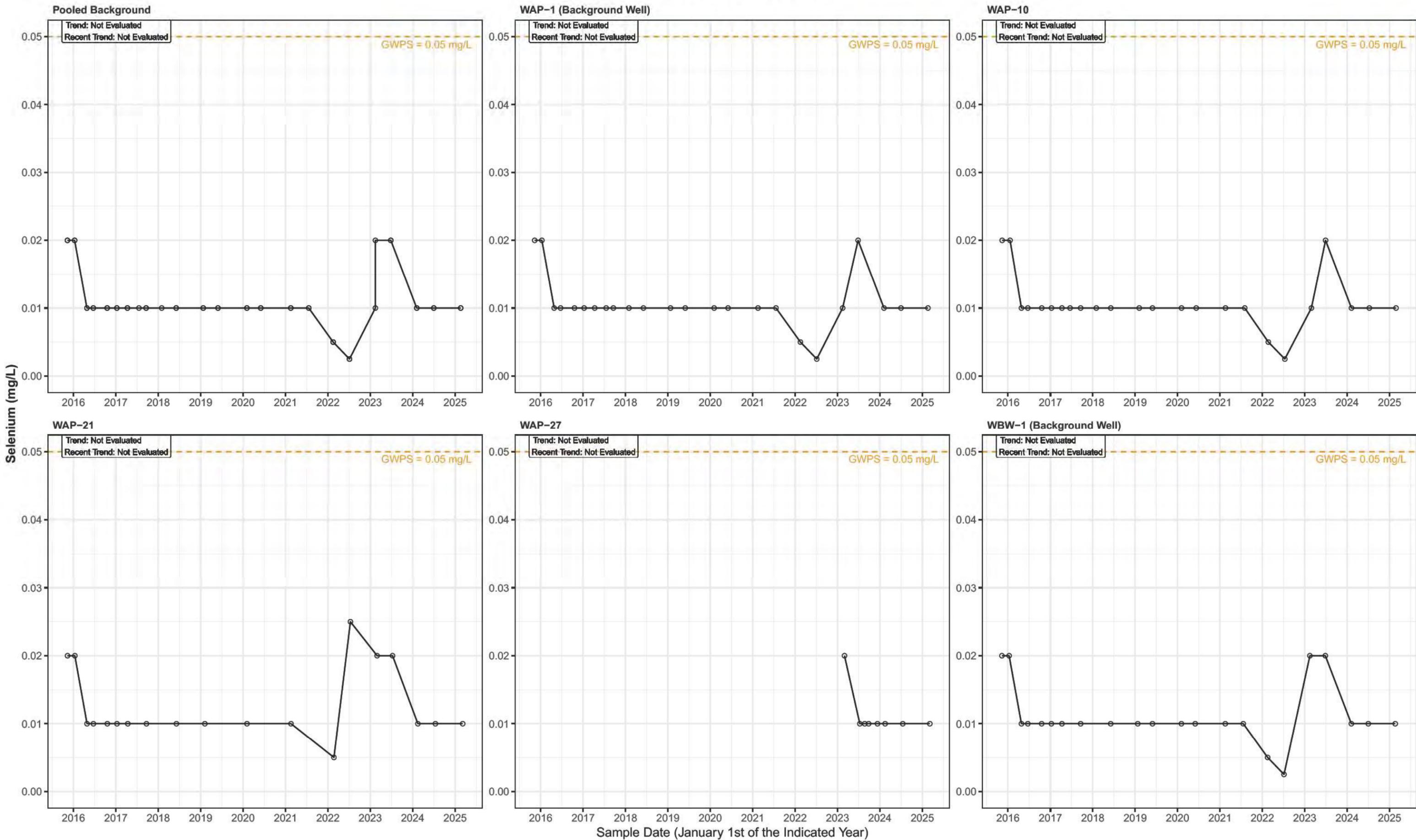
Trend Analysis for Radium-226 & 228



Detection Status: ● Detect ○ Non-Detect

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

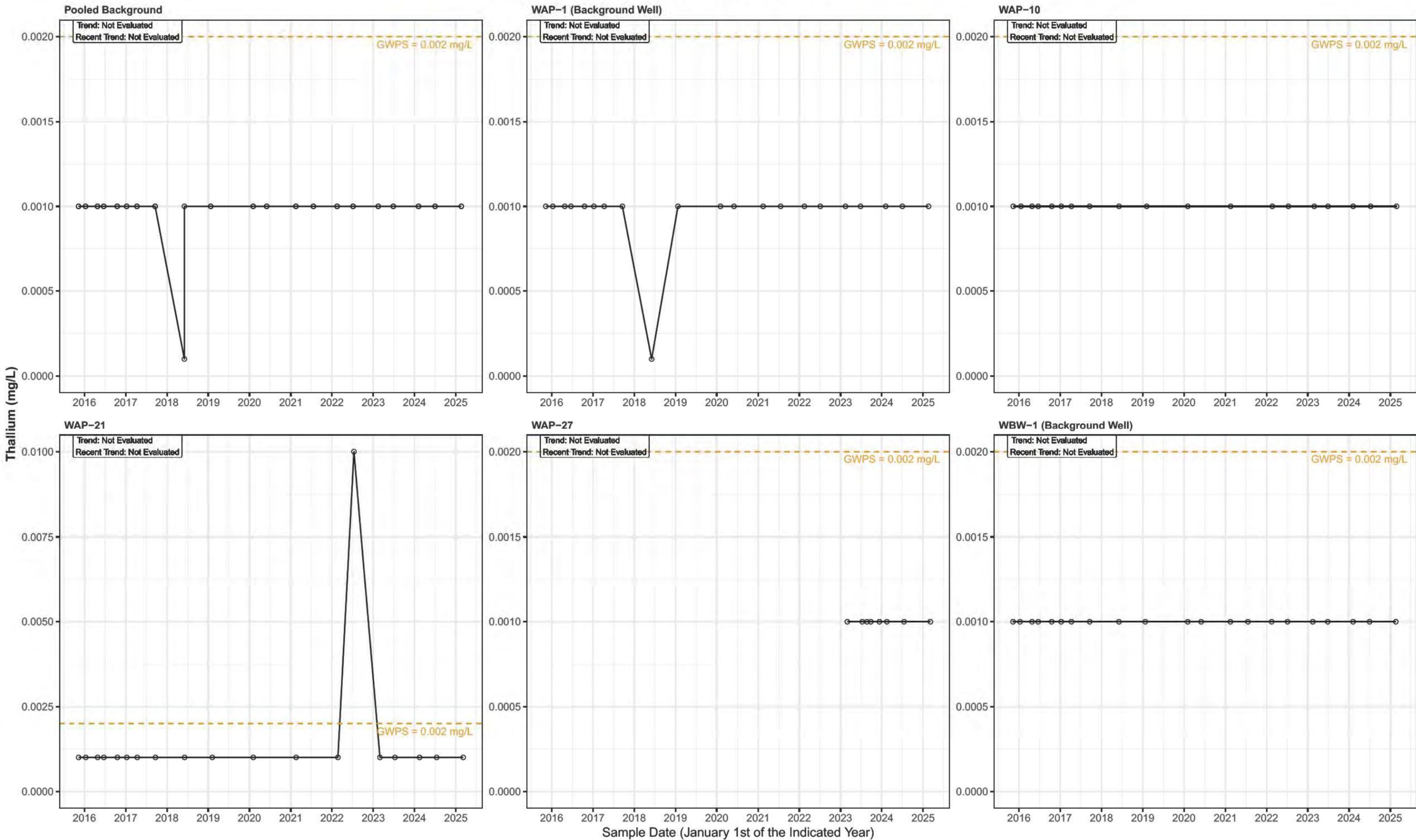
Trend Analysis for Selenium



Detection Status: ○ Non-Detect

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

Trend Analysis for Thallium



Detection Status: ○ Non-Detect

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



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TECHNICAL MEMORANDUM

December 23, 2025
File No. 0132892-102

SUBJECT: Statistical Evaluation of the June and July 2025 Semiannual Corrective Action Groundwater Monitoring Data, Winyah Generating Station, Ash Pond A

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93, § 257.95, and § 257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the June and July 2025 semiannual corrective action monitoring event for Winyah Generating Station (WGS) Ash Pond A. Data for this groundwater sampling event were validated on September 26, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc (Haley & Aldrich).

BACKGROUND

Coal combustion residual (CCR) and non-CCR wastewater inflows to the WGS Ash Pond A ceased prior to the regulatory deadline of April 11, 2021. The unit has completed excavation of the CCR as the first step in groundwater remediation as outlined in the *Remedy Selection Report*. During previous groundwater sampling events, assessment monitoring identified the presence of arsenic, lithium, and molybdenum in one or more downgradient wells at a statistically significant level (SSL) above the Groundwater Protection Standards (GWPS).

Recent analytical testing results were evaluated to determine if SSLs exist above the GWPS of Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR § 257.93(f)(1-4)) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich on October 14, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level, or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

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

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

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

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

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

TREND ANALYSIS

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

Of the 24 downgradient well/constituent datasets that were evaluated for recent trends, 42 percent were stable, 4 percent were increasing, and 54 percent were variable with no statistically significant trend. The increasing trend was identified for fluoride at WAP-18, but the detected value (0.14 milligrams per liter [mg/L]) remains well below the GWPS (4 mg/L). Dynamic site conditions, due to

both natural conditions and closure activities, may result in variability in the trends. It is important to note that increasing trends are not a part of the SSL identification process. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. No outliers were removed. Consistent with previous results, arsenic and lithium remain the only Appendix IV constituents present in groundwater at SSLs above the GWPS, and groundwater monitoring will continue:

- Arsenic SSLs at WAP-9, WAP-17, WAP-18, and WAP-19.
- Lithium SSLs at WAP-9, WAP-18, and WAP-19.

While landfill construction within the footprint of a portion of Ash Pond A was completed in December 2022, Ash Pond A closure activities are not yet complete. As closure activities continue in the footprint of Ash Pond A, downgradient groundwater conditions may remain in a state of flux, contributing to potential short-term fluctuations in some of the concentrations of Appendix IV SSLs. The fluctuations are expected to subside once aquifer equilibrium conditions are restored.

Enclosures:

Table 1 – June and July 2025 Semiannual Corrective Action Monitoring Data
(WGS Ash Pond A)

Attachment A – Statistical Output, June and July 2025

https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0_Winyah Generating Station/Statistical Analysis/2025-10/Ash Pond A/2025-1223_WGS_Ash Pond A_AssessMonStats_F.docx

TABLE

TABLE 1
 JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND A)
 WINYAH GENERATING STATION
 ASH POND A

Overall Data Summary											Inter-well Analysis											
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^(a)	Assumed Data Distribution	Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^(b)	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>	
CCR Appendix IV: Antimony, Total (mg/L)																						
WBW-1	0/22	100%	0.005 - 0.025	0.0059	0.005	0.005	NA	72%	0	1	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.025	NA	0.006	0.025	NA	NA	
WAP-1	1/22	96%	0.002 - 0.025	0.0058	0.005	0.005	0.0053	75%	0	1	Not Evaluated		6/25/2025	0.0053	Yes		NA			NA		
WAP-9	1/20	95%	0.002 - 0.025	0.0059	0.005	0.007	0.0065	77%	1	1	Not Evaluated		NA	6/26/2025	0.005		No			No	NA	No
WAP-17	0/21	100%	0.002 - 0.025	0.0058	0.005	0.005	NA	77%	0	1	Not Evaluated		NA	7/14/2025	0.005		No			No	NA	No
WAP-18	0/20	100%	0.002 - 0.025	0.0059	0.005	0.006	NA	78%	0	1	Not Evaluated		NA	7/8/2025	0.005		No			No	NA	No
WAP-19	0/20	100%	0.002 - 0.025	0.0059	0.005	0.006	NA	78%	0	1	Not Evaluated		NA	7/7/2025	0.005		No			No	NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																						
WBW-1	0/24	100%	0.003 - 0.005	0.005	0.005	0.005	NA	20%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.0096	NA	0.01	0.01	NA	NA	
WAP-1	7/26	73%	0.003 - 0.005	0.005	0.005	0.008	0.0096	27%	0	0	No Trend		6/25/2025	0.0057	Yes		NA			NA		
WAP-9	26/26	0%	NA	0.176	0.169	0.40	0.42	66%	26	0	Stable		Parametric	6/26/2025	0.0409		Yes			Yes	0.129	Yes
WAP-17	25/25	0%	NA	0.120	0.108	0.195	0.24	34%	25	0	Stable		Non-Parametric	7/14/2025	0.0968		Yes			Yes	0.095	Yes
WAP-18	24/24	0%	NA	0.40800	0.244	1.27000	1.53	100%	24	0	Stable		Non-Parametric	7/8/2025	0.0633		Yes			Yes	0.137	Yes
WAP-19	24/24	0%	NA	0.13100	0.117	0.252	0.474	71%	24	0	Stable		Non-Parametric	7/7/2025	0.118		Yes			Yes	0.0831	Yes
CCR Appendix IV: Barium, Total (mg/L)																						
WBW-1	24/24	0%	NA	0.0183	0.0151	0.0422	0.0534	60%	0	0	Stable	Non-Parametric (Pooled Background Data)	6/25/2025	0.0222	Yes	0.094	NA	2	2	NA	NA	
WAP-1	26/26	0%	NA	0.0420	0.0418	0.0810	0.094	62%	0	0	Stable		6/25/2025	0.0365	Yes		NA			NA		
WAP-9	26/26	0%	NA	0.0806	0.0717	0.1280	0.15	30%	0	0	No Trend		NA	6/26/2025	0.0616		Yes			No	NA	No
WAP-17	25/25	0%	NA	0.0477	0.0454	0.0691	0.1	33%	0	0	No Trend		NA	7/14/2025	0.0394		Yes			No	NA	No
WAP-18	24/24	0%	NA	0.0944	0.0917	0.1380	0.141	25%	0	0	No Trend		NA	7/8/2025	0.0366		Yes			No	NA	No
WAP-19	24/24	0%	NA	0.06	0.05	0.10	0.104	34%	0	0	No Trend		NA	7/7/2025	0.0586		Yes			No	NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																						
WBW-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No	0.0005	NA	0.004	0.004	NA	NA	
WAP-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/25/2025	0.0005	No		NA			NA		
WAP-9	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	6/26/2025	0.0005		No			No	NA	No
WAP-17	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	7/14/2025	0.0005		No			No	NA	No
WAP-18	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	7/8/2025	0.0005		No			No	NA	No
WAP-19	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	7/7/2025	0.0005		No			No	NA	No
CCR Appendix IV: Cadmium, Total (mg/L)																						
WBW-1	0/23	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No	0.0005	NA	0.005	0.005	NA	NA	
WAP-1	0/25	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/25/2025	0.0005	No		NA			NA		
WAP-9	0/25	100%	0.0005 - 0.004	0.0006	0.0005	0.0005	NA	109%	0	0	Not Evaluated		NA	6/26/2025	0.0005		No			No	NA	No
WAP-17	0/21	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	7/14/2025	0.0005		No			No	NA	No
WAP-18	1/20	95%	0.0005 - 0.0005	0.0005	0.0005	0.0005	0.00068	8%	0	0	Not Evaluated		NA	7/8/2025	0.0005		No			No	NA	No
WAP-19	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	7/7/2025	0.0005		No			No	NA	No
CCR Appendix IV: Chromium, Total (mg/L)																						
WBW-1	1/23	96%	0.005 - 0.005	0.005	0.005	0.005	0.005	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.005	NA	0.1	0.1	NA	NA	
WAP-1	0/25	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA		
WAP-9	0/25	100%	0.005 - 0.01	0.005	0.005	0.005	NA	19%	0	0	Not Evaluated		NA	6/26/2025	0.005		No			No	NA	No
WAP-17	0/21	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		NA	7/14/2025	0.005		No			No	NA	No
WAP-18	0/20	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		NA	7/8/2025	0.005		No			No	NA	No
WAP-19	0/20	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		NA	7/7/2025	0.005		No			No	NA	No

TABLE 1
 JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND A)
 WINYAH GENERATING STATION
 ASH POND A

Overall Data Summary											Inter-well Analysis											
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>	
CCR Appendix IV: Cobalt, Total (mg/L)																						
WBW-1	8/24	67%	0.0005 - 0.0005	0.0011	0.0005	0.0030	0.00838	148%	1	0	Decreasing	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No	0.00838	NA	0.006	0.00838	NA	NA	
WAP-1	11/24	54%	0.0005 - 0.0005	0.0007	0.0005	0.0015	0.0016	49%	0	0	Stable		6/25/2025	0.00094	Yes		NA			NA		
WAP-9	3/22	86%	0.0005 - 0.0005	0.0006	0.0005	0.0009	0.003	84%	0	0	Probably increasing		NA	6/26/2025	0.003		Yes			No	NA	No
WAP-17	0/23	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	7/14/2025	0.0005		No			No	NA	No
WAP-18	11/22	50%	0.0005 - 0.0005	0.0010	0.0005	0.0022	0.0033	82%	0	0	Stable		NA	7/8/2025	0.0005		No			No	NA	No
WAP-19	8/23	65%	0.0005 - 0.0005	0.0015	0.0005	0.0059	0.0121	177%	2	0	No Trend		NA	7/7/2025	0.00065		Yes			No	NA	No
CCR Appendix IV: Fluoride, Total (mg/L)																						
WBW-1	1/25	96%	0.1 - 0.1	0.100	0.100	0.100	0.100	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.1	No	0.14	4	4	NA	NA		
WAP-1	2/25	92%	0.1 - 0.1	0.103	0.100	0.124	0.140	10%	0	0	Not Evaluated		6/25/2025	0.1	No				NA	NA		
WAP-9	2/25	92%	0.1 - 0.1	0.100	0.100	0.10	0.11	2%	0	0	Not Evaluated		NA	6/26/2025	0.1				No	No	NA	No
WAP-17	12/26	54%	0.066 - 0.1	0.137	0.100	0.245	0.320	44%	0	0	Not Evaluated		NA	7/14/2025	0.1				No	No	NA	No
WAP-18	18/25	28%	0.1 - 0.1	0.870	0.850	1.980	2.510	85%	0	0	Increasing		NA	7/8/2025	0.14				Yes	No	NA	No
WAP-19	21/25	16%	0.1 - 0.1	0.242	0.190	0.554	0.600	58%	0	0	No Trend		NA	7/7/2025	0.29				Yes	Yes	NA	No
CCR Appendix IV: Lead, Total (mg/L)																						
WBW-1	0/23	100%	0.001 - 0.01	0.002	0.001	0.009	NA	122%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.001	No	0.01	0.015	0.015	NA	NA		
WAP-1	4/25	84%	0.001 - 0.01	0.002	0.001	0.004	0.00456	103%	0	0	Not Evaluated		6/25/2025	0.001	No				NA	NA		
WAP-9	0/25	100%	0.001 - 0.05	0.003	0.001	0.003	NA	299%	0	1	Not Evaluated		NA	6/26/2025	0.001				No	No	NA	No
WAP-17	0/21	100%	0.001 - 0.01	0.002	0.001	0.003	NA	116%	0	0	Not Evaluated		NA	7/14/2025	0.001				No	No	NA	No
WAP-18	0/20	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated		NA	7/8/2025	0.001				No	No	NA	No
WAP-19	0/20	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated		NA	7/7/2025	0.001				No	No	NA	No
CCR Appendix IV: Lithium, Total (mg/L)																						
WBW-1	1/24	96%	0.005 - 0.01	0.0088	0.0100	0.010	0.010	25%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.0116	0.04	0.04	NA	NA		
WAP-1	1/24	96%	0.005 - 0.01	0.009	0.010	0.010	0.0116	28%	0	0	Not Evaluated		6/25/2025	0.005	No				NA	NA		
WAP-9	24/24	0%	NA	0.076	0.070	0.121	0.130	31%	23	0	No Trend		Parametric	6/26/2025	0.0673				Yes	Yes	0.0658	Yes
WAP-17	25/25	0%	NA	0.235	0.210	0.529	0.825	82%	21	0	Stable		NA	7/14/2025	0.0343				Yes	Yes	NA	No
WAP-18	24/24	0%	NA	0.2080	0.1690	0.4850	0.54	68%	24	0	No Trend		Non-Parametric	7/8/2025	0.0437				Yes	Yes	0.104	Yes
WAP-19	25/25	0%	NA	0.3830	0.2600	0.9440	1.45	78%	25	0	Stable		Non-Parametric	7/7/2025	0.571				Yes	Yes	0.24	Yes
CCR Appendix IV: Mercury, Total (mg/L)																						
WBW-1	1/22	96%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.0002	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0002	No	0.0002	0.002	0.002	NA	NA		
WAP-1	0/22	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		6/25/2025	0.0002	No				NA	NA		
WAP-9	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		NA	6/26/2025	0.0002				No	No	NA	No
WAP-17	0/21	100%	0.0002 - 0.00024	0.0002	0.0002	0.0002	NA	4%	0	0	Not Evaluated		NA	7/14/2025	0.0002				No	No	NA	No
WAP-18	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		NA	7/8/2025	0.0002				No	No	NA	No
WAP-19	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		NA	7/7/2025	0.0002				No	No	NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																						
WBW-1	0/24	100%	0.005 - 0.05	0.010	0.010	0.010	NA	84%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.05	0.1	0.1	NA	NA		
WAP-1	0/24	100%	0.005 - 0.01	0.009	0.010	0.010	NA	27%	0	0	Not Evaluated		6/25/2025	0.005	No				NA	NA		
WAP-9	9/24	63%	0.005 - 0.01	0.013	0.010	0.03	0.034	66%	0	0	Not Evaluated		NA	6/26/2025	0.005				No	No	NA	No
WAP-17	23/24	4%	0.005 - 0.005	0.054	0.043	0.104	0.35	123%	2	0	Probably Decreasing		NA	7/14/2025	0.0206				Yes	No	NA	No
WAP-18	23/23	0%	NA	0.332	0.158	1.240	2.9	188%	15	0	No Trend		Non-Parametric	7/8/2025	0.279				Yes	Yes	0.09	No
WAP-19	21/23	9%	0.005 - 0.05	0.036	0.039	0.057	0.0947	57%	0	0	No Trend		NA	7/7/2025	0.0114				Yes	No	NA	No

TABLE 1
 JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND A)
 WINYAH GENERATING STATION
 ASH POND A

Overall Data Summary											Inter-well Analysis												
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) Max level between the UTL and MCL/RSL	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>		
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																							
WBW-1	17/24	29%	0 - 4	2.87	3.58	4.33	4.39	50%	0	0	Stable	Non-Parametric (Pooled Background Data)	6/25/2025	2.24	Yes	5.97	NA	5	5.97	NA	NA		
WAP-1	19/24	21%	45751	3.23	4.00	5.63	5.97	48%	4	0	No Trend		6/25/2025	2.14	Yes		NA			NA	NA	NA	
WAP-9	21/24	13%	45751	3.50	4.00	5.30	5.72	39%	3	0	Stable		6/26/2025	1.81	Yes		No			NA	No	NA	No
WAP-17	17/24	29%	45751	2.80	3.04	4.34	5.51	55%	1	0	No Trend		7/14/2025	2.74	Yes		No			NA	No	NA	No
WAP-18	17/24	29%	45751	3.00	3.96	4.30	4.46	45%	0	0	Stable		7/8/2025	0.97	Yes		No			NA	No	NA	No
WAP-19	15/24	38%	45751	3.19	4.00	4.64	4.94	38%	0	0	Stable		7/7/2025	3.35	Yes		No			NA	No	NA	No
CCR Appendix IV: Selenium, Total (mg/L)																							
WBW-1	0/23	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.01	No	0.02	0.05	0.05	NA	NA	NA		
WAP-1	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		6/25/2025	0.01	No				NA	NA	NA	NA	
WAP-9	0/25	100%	0.0025 - 0.05	0.012	0.010	0.020	NA	71%	0	0	Not Evaluated		6/26/2025	0.01	No				No	NA	No	NA	No
WAP-17	0/21	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated		7/14/2025	0.01	No				No	NA	No	NA	No
WAP-18	0/20	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	43%	0	0	Not Evaluated		7/8/2025	0.01	No				No	NA	No	NA	No
WAP-19	0/20	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	43%	0	0	Not Evaluated		7/7/2025	0.01	No				No	NA	No	NA	No
CCR Appendix IV: Thallium, Total (mg/L)																							
WBW-1	0/22	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.001	No	0.001	0.002	0.002	NA	NA	NA		
WAP-1	0/22	100%	0.0001 - 0.001	0.001	0.001	0.001	NA	20%	0	0	Not Evaluated		6/25/2025	0.001	No				NA	NA	NA	NA	
WAP-9	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		6/26/2025	0.001	No				No	NA	No	NA	No
WAP-17	0/21	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		7/14/2025	0.001	No				No	NA	No	NA	No
WAP-18	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		7/8/2025	0.001	No				No	NA	No	NA	No
WAP-19	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		7/7/2025	0.001	No				No	NA	No	NA	No

Notes:

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

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

MCL/RSL: Maximum contaminant level/Regional screening level

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

n: sample count

NA: not applicable

ATTACHMENT A
Statistical Output, June and July 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
Pooled Background	Antimony	mg/L	44	43	98	0.025	0.002	0.00585	0.005	0.0043	72.7	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-1 (Background)	Antimony	mg/L	22	21	95	0.025	0.002	0.00579	0.005	0.0043	75	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-17	Antimony	mg/L	21	21	100	0.025	0.002	0.00581	0.005	0.0044	76.5	0.002 - 0.025	2015-11-11 to 2025-07-14
WAP-18	Antimony	mg/L	20	20	100	0.025	0.002	0.00585	0.005	0.0046	77.9	0.002 - 0.025	2015-11-11 to 2025-07-08
WAP-19	Antimony	mg/L	20	20	100	0.025	0.002	0.00585	0.005	0.0046	77.9	0.002 - 0.025	2015-11-11 to 2025-07-07
WAP-9	Antimony	mg/L	20	19	95	0.025	0.002	0.00592	0.005	0.0046	76.9	0.002 - 0.025	2015-11-11 to 2025-06-26
WBW-1 (Background)	Antimony	mg/L	22	22	100	0.025	0.005	0.00591	0.005	0.0043	72.2	0.005 - 0.025	2015-11-10 to 2025-06-25
Pooled Background	Arsenic	mg/L	50	43	86	0.0096	0.003	0.00498	0.005	0.0013	26	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Arsenic	mg/L	26	19	73	0.0096	0.003	0.00542	0.005	0.0015	27	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-17	Arsenic	mg/L	25	0	0	0.24	0.0703	0.12	0.108	0.04	33.7	NA	2015-11-11 to 2025-07-14
WAP-18	Arsenic	mg/L	24	0	0	1.53	0.0633	0.408	0.244	0.41	100	NA	2015-11-11 to 2025-07-08
WAP-19	Arsenic	mg/L	24	0	0	0.474	0.0199	0.131	0.117	0.093	70.8	NA	2015-11-11 to 2025-07-07
WAP-9	Arsenic	mg/L	26	0	0	0.42	0.0295	0.176	0.169	0.12	66.3	NA	2015-11-11 to 2025-06-26
WBW-1 (Background)	Arsenic	mg/L	24	24	100	0.005	0.003	0.0045	0.005	0.00088	19.7	0.003 - 0.005	2015-11-10 to 2025-06-25
Pooled Background	Barium	mg/L	50	0	0	0.094	0.0058	0.0306	0.0222	0.023	76.6	NA	2015-11-10 to 2025-06-25
WAP-1 (Background)	Barium	mg/L	26	0	0	0.094	0.0058	0.042	0.0418	0.026	62.3	NA	2015-11-10 to 2025-06-25
WAP-17	Barium	mg/L	25	0	0	0.1	0.023	0.0477	0.0454	0.016	32.9	NA	2015-11-11 to 2025-07-14
WAP-18	Barium	mg/L	24	0	0	0.141	0.0366	0.0944	0.0917	0.023	24.7	NA	2015-11-11 to 2025-07-08
WAP-19	Barium	mg/L	24	0	0	0.104	0.0359	0.0568	0.0536	0.019	34.2	NA	2015-11-11 to 2025-07-07
WAP-9	Barium	mg/L	26	0	0	0.15	0.0576	0.0806	0.0717	0.024	30.4	NA	2015-11-11 to 2025-06-26
WBW-1 (Background)	Barium	mg/L	24	0	0	0.0534	0.0072	0.0183	0.0151	0.011	60.3	NA	2015-11-10 to 2025-06-25
Pooled Background	Beryllium	mg/L	44	44	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Beryllium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-17	Beryllium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-07-14
WAP-18	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-07-08
WAP-19	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-07-07
WAP-9	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-06-26
WBW-1 (Background)	Beryllium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Cadmium	mg/L	48	48	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Cadmium	mg/L	25	25	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-17	Cadmium	mg/L	21	21	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-07-14
WAP-18	Cadmium	mg/L	20	19	95	0.00068	0.0005	0.000509	0.0005	4e-05	7.91	0.0005 - 0.0005	2015-11-11 to 2025-07-08
WAP-19	Cadmium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-07-07
WAP-9	Cadmium	mg/L	25	25	100	0.004	0.0005	0.00064	0.0005	0.0007	109	0.0005 - 0.004	2015-11-11 to 2025-06-26
WBW-1 (Background)	Cadmium	mg/L	23	23	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Chromium	mg/L	48	47	98	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Chromium	mg/L	25	25	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
WAP-17	Chromium	mg/L	21	21	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-11 to 2025-07-14
WAP-18	Chromium	mg/L	20	20	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-11 to 2025-07-08
WAP-19	Chromium	mg/L	20	20	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-11 to 2025-07-07
WAP-9	Chromium	mg/L	25	25	100	0.01	0.005	0.0052	0.005	0.001	19.2	0.005 - 0.01	2015-11-11 to 2025-06-26
WBW-1 (Background)	Chromium	mg/L	23	22	96	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
Pooled Background	Cobalt	mg/L	48	29	60	0.00838	0.0005	0.000933	0.0005	0.0012	132	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Cobalt	mg/L	24	13	54	0.0016	0.0005	0.000724	0.0005	0.00036	49.3	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-17	Cobalt	mg/L	23	23	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-11 to 2025-07-14
WAP-18	Cobalt	mg/L	22	11	50	0.0033	0.0005	0.000955	0.00052	0.00078	81.8	0.0005 - 0.0005	2015-11-11 to 2025-07-08
WAP-19	Cobalt	mg/L	23	15	65	0.0121	0.0005	0.00151	0.0005	0.0027	177	0.0005 - 0.0005	2015-11-11 to 2025-07-07
WAP-9	Cobalt	mg/L	22	19	86	0.003	0.0005	0.000639	0.0005	0.00053	83.7	0.0005 - 0.0005	2015-11-11 to 2025-06-26
WBW-1 (Background)	Cobalt	mg/L	24	16	67	0.00838	0.0005	0.00114	0.0005	0.0017	148	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Fluoride	mg/L	50	47	94	0.14	0.1	0.101	0.1	0.007	6.9	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-1 (Background)	Fluoride	mg/L	25	23	92	0.14	0.1	0.103	0.1	0.0098	9.53	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-17	Fluoride	mg/L	26	14	54	0.32	0.066	0.137	0.1	0.06	44.2	0.066 - 0.1	2015-11-11 to 2025-07-14
WAP-18	Fluoride	mg/L	25	7	28	2.51	0.1	0.87	0.85	0.74	84.8	0.1 - 0.1	2015-11-11 to 2025-07-08
WAP-19	Fluoride	mg/L	25	4	16	0.6	0.1	0.242	0.19	0.14	58.4	0.1 - 0.1	2015-11-11 to 2025-07-07
WAP-9	Fluoride	mg/L	25	23	92	0.11	0.1	0.1	0.1	0.002	1.99	0.1 - 0.1	2015-11-11 to 2025-06-26
WBW-1 (Background)	Fluoride	mg/L	25	24	96	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-10 to 2025-06-25

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

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
Pooled Background	Lead	mg/L	48	44	92	0.01	0.001	0.00198	0.001	0.0022	113	0.001 - 0.01	2015-11-10 to 2025-06-25
WAP-1 (Background)	Lead	mg/L	25	21	84	0.01	0.001	0.00185	0.001	0.0019	103	0.001 - 0.01	2015-11-10 to 2025-06-25
WAP-17	Lead	mg/L	21	21	100	0.01	0.001	0.00171	0.001	0.002	116	0.001 - 0.01	2015-11-11 to 2025-07-14
WAP-18	Lead	mg/L	20	20	100	0.01	0.001	0.00182	0.001	0.002	111	0.001 - 0.01	2015-11-11 to 2025-07-08
WAP-19	Lead	mg/L	20	20	100	0.01	0.001	0.00182	0.001	0.002	111	0.001 - 0.01	2015-11-11 to 2025-07-07
WAP-9	Lead	mg/L	25	25	100	0.05	0.001	0.00326	0.001	0.0098	299	0.001 - 0.05	2015-11-11 to 2025-06-26
WBW-1 (Background)	Lead	mg/L	23	23	100	0.01	0.001	0.00211	0.001	0.0026	122	0.001 - 0.01	2015-11-10 to 2025-06-25
Pooled Background	Lithium	mg/L	48	46	96	0.0116	0.005	0.00868	0.01	0.0023	26.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-1 (Background)	Lithium	mg/L	24	23	96	0.0116	0.005	0.00861	0.01	0.0024	27.7	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-17	Lithium	mg/L	25	0	0	0.825	0.012	0.235	0.21	0.19	82.1	NA	2015-11-11 to 2025-07-14
WAP-18	Lithium	mg/L	24	0	0	0.54	0.0437	0.208	0.169	0.14	67.5	NA	2015-11-11 to 2025-07-08
WAP-19	Lithium	mg/L	25	0	0	1.45	0.0733	0.383	0.26	0.3	78.2	NA	2015-11-11 to 2025-07-07
WAP-9	Lithium	mg/L	24	0	0	0.13	0.0374	0.0757	0.0695	0.024	31.1	NA	2015-11-11 to 2025-06-26
WBW-1 (Background)	Lithium	mg/L	24	23	96	0.01	0.005	0.00875	0.01	0.0022	25.3	0.005 - 0.01	2015-11-10 to 2025-06-25
Pooled Background	Mercury	mg/L	44	43	98	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-1 (Background)	Mercury	mg/L	22	22	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-17	Mercury	mg/L	21	21	100	0.00024	0.0002	0.000202	0.0002	8.7e-06	4.32	0.0002 - 0.00024	2015-11-11 to 2025-07-14
WAP-18	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-07-08
WAP-19	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-07-07
WAP-9	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-06-26
WBW-1 (Background)	Mercury	mg/L	22	21	95	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
Pooled Background	Molybdenum	mg/L	48	48	100	0.05	0.005	0.00948	0.01	0.0064	67.3	0.005 - 0.05	2015-11-10 to 2025-06-25
WAP-1 (Background)	Molybdenum	mg/L	24	24	100	0.01	0.005	0.00854	0.01	0.0023	27.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-17	Molybdenum	mg/L	24	1	4	0.35	0.005	0.0543	0.0426	0.067	123	0.005 - 0.005	2015-11-11 to 2025-07-14
WAP-18	Molybdenum	mg/L	23	0	0	2.9	0.012	0.332	0.158	0.63	188	NA	2015-11-11 to 2025-07-08
WAP-19	Molybdenum	mg/L	23	2	9	0.0947	0.005	0.0359	0.039	0.02	56.7	0.005 - 0.05	2015-11-11 to 2025-07-07
WAP-9	Molybdenum	mg/L	24	15	62	0.034	0.005	0.0125	0.01	0.0082	65.7	0.005 - 0.01	2015-11-11 to 2025-06-26
WBW-1 (Background)	Molybdenum	mg/L	24	24	100	0.05	0.005	0.0104	0.01	0.0087	83.6	0.005 - 0.05	2015-11-10 to 2025-06-25
Pooled Background	Radium-226 & 228	pCi/L	48	12	25	5.97	0	3.05	4	1.5	48.8	0 - 4	2015-11-10 to 2025-06-25
WAP-1 (Background)	Radium-226 & 228	pCi/L	24	5	21	5.97	0.952	3.23	4	1.5	47.7	4 - 4	2015-11-10 to 2025-06-25
WAP-17	Radium-226 & 228	pCi/L	24	7	29	5.51	0.39	2.8	3.04	1.5	54.6	4 - 4	2015-11-11 to 2025-07-14
WAP-18	Radium-226 & 228	pCi/L	24	7	29	4.46	0.802	3	3.96	1.4	45.1	4 - 4	2015-11-11 to 2025-07-08
WAP-19	Radium-226 & 228	pCi/L	24	9	38	4.94	0.842	3.19	4	1.2	37.7	4 - 4	2015-11-11 to 2025-07-07
WAP-9	Radium-226 & 228	pCi/L	24	3	12	5.72	1.05	3.5	4	1.4	38.8	4 - 4	2015-11-11 to 2025-06-26
WBW-1 (Background)	Radium-226 & 228	pCi/L	24	7	29	4.39	0	2.87	3.58	1.4	50.3	0 - 4	2015-11-10 to 2025-06-25
Pooled Background	Selenium	mg/L	48	48	100	0.02	0.0025	0.0109	0.01	0.0042	38.2	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-1 (Background)	Selenium	mg/L	25	25	100	0.02	0.0025	0.0107	0.01	0.0039	36.6	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-17	Selenium	mg/L	21	21	100	0.02	0.0025	0.0108	0.01	0.0043	39.5	0.0025 - 0.02	2015-11-11 to 2025-07-14
WAP-18	Selenium	mg/L	20	20	100	0.02	0.0025	0.0114	0.01	0.0048	42.5	0.0025 - 0.02	2015-11-11 to 2025-07-08
WAP-19	Selenium	mg/L	20	20	100	0.02	0.0025	0.0114	0.01	0.0048	42.5	0.0025 - 0.02	2015-11-11 to 2025-07-07
WAP-9	Selenium	mg/L	25	25	100	0.05	0.0025	0.0123	0.01	0.0088	71.4	0.0025 - 0.05	2015-11-11 to 2025-06-26
WBW-1 (Background)	Selenium	mg/L	23	23	100	0.02	0.0025	0.0112	0.01	0.0045	40.3	0.0025 - 0.02	2015-11-10 to 2025-06-25
Pooled Background	Thallium	mg/L	44	44	100	0.001	0.0001	0.00098	0.001	0.00014	13.9	0.0001 - 0.001	2015-11-10 to 2025-06-25
WAP-1 (Background)	Thallium	mg/L	22	22	100	0.001	0.0001	0.000959	0.001	0.00019	20	0.0001 - 0.001	2015-11-10 to 2025-06-25
WAP-17	Thallium	mg/L	21	21	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-07-14
WAP-18	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-07-08
WAP-19	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-07-07
WAP-9	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-11 to 2025-06-26
WBW-1 (Background)	Thallium	mg/L	22	22	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-06-25

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

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

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)							
Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)	
Pooled Background	Antimony	0.291	2.8e-13	44	43	Not normal	
WAP-1 (Background)	Antimony	0.366	9e-09	22	21	Not normal	
WAP-17	Antimony	NA	NA	21	21	Not Evaluated - All Non-Detect Results	
WAP-18	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-19	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-9	Antimony	0.410	5.4e-08	20	19	Not normal	
WBW-1 (Background)	Antimony	NA	NA	22	22	Not Evaluated - All Non-Detect Results	
Pooled Background	Arsenic	0.568	6.7e-11	50	43	Not normal	
WAP-1 (Background)	Arsenic	0.682	3.1e-06	26	19	Not normal	
WAP-17	Arsenic	0.849	0.0017	25	0	Not normal	
WAP-18	Arsenic	0.753	5.5e-05	24	0	Not normal	
WAP-19	Arsenic	0.778	0.00013	24	0	Not normal	
WAP-9	Arsenic	0.929	0.072	26	0	Normal	
WBW-1 (Background)	Arsenic	NA	NA	24	24	Not Evaluated - All Non-Detect Results	
Pooled Background	Barium	0.859	2.7e-05	50	0	Not normal	
WAP-1 (Background)	Barium	0.944	0.17	26	0	Normal	
WAP-17	Barium	0.898	0.016	25	0	Not normal	
WAP-18	Barium	0.931	0.1	24	0	Normal	
WAP-19	Barium	0.872	0.0057	24	0	Not normal	
WAP-9	Barium	0.819	0.00038	26	0	Not normal	
WBW-1 (Background)	Barium	0.762	7.5e-05	24	0	Not normal	
Pooled Background	Beryllium	NA	NA	44	44	Not Evaluated - All Non-Detect Results	
WAP-1 (Background)	Beryllium	NA	NA	22	22	Not Evaluated - All Non-Detect Results	
WAP-17	Beryllium	NA	NA	21	21	Not Evaluated - All Non-Detect Results	
WAP-18	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-19	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-9	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WBW-1 (Background)	Beryllium	NA	NA	22	22	Not Evaluated - All Non-Detect Results	
Pooled Background	Cadmium	NA	NA	48	48	Not Evaluated - All Non-Detect Results	
WAP-1 (Background)	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results	
WAP-17	Cadmium	NA	NA	21	21	Not Evaluated - All Non-Detect Results	
WAP-18	Cadmium	0.236	2.7e-09	20	19	Not normal	
WAP-19	Cadmium	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-9	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results	
WBW-1 (Background)	Cadmium	NA	NA	23	23	Not Evaluated - All Non-Detect Results	
Pooled Background	Chromium	0.129	2.4e-15	48	47	Not normal	
WAP-1 (Background)	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results	
WAP-17	Chromium	NA	NA	21	21	Not Evaluated - All Non-Detect Results	
WAP-18	Chromium	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-19	Chromium	NA	NA	20	20	Not Evaluated - All Non-Detect Results	
WAP-9	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results	
WBW-1 (Background)	Chromium	0.215	4e-10	23	22	Not normal	
Pooled Background	Cobalt	0.446	3.3e-12	48	29	Not normal	
WAP-1 (Background)	Cobalt	0.757	6.2e-05	24	13	Not normal	
WAP-17	Cobalt	NA	NA	23	23	Not Evaluated - All Non-Detect Results	
WAP-18	Cobalt	0.717	3.2e-05	22	11	Not normal	
WAP-19	Cobalt	0.470	4.5e-08	23	15	Not normal	
WAP-9	Cobalt	0.331	4.8e-09	22	19	Not normal	
WBW-1 (Background)	Cobalt	0.478	3.5e-08	24	16	Not normal	
Pooled Background	Fluoride	0.259	1.8e-14	50	47	Not normal	
WAP-1 (Background)	Fluoride	0.313	8.3e-10	25	23	Not normal	
WAP-17	Fluoride	0.805	0.00021	26	14	Not normal	
WAP-18	Fluoride	0.883	0.008	25	7	Not normal	
WAP-19	Fluoride	0.899	0.017	25	4	Not normal	
WAP-9	Fluoride	0.315	8.5e-10	25	23	Not normal	
WBW-1 (Background)	Fluoride	0.203	1.2e-10	25	24	Not normal	
Pooled Background	Lead	0.508	1.9e-11	48	44	Not normal	
WAP-1 (Background)	Lead	0.550	1.2e-07	25	21	Not normal	
WAP-17	Lead	NA	NA	21	21	Not Evaluated - All Non-Detect Results	
WAP-18	Lead	NA	NA	20	20	Not Evaluated - All Non-Detect Results	

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

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)
WAP-19	Lead	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-9	Lead	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Lead	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Lithium	0.633	1e-09	48	46	Not normal
WAP-1 (Background)	Lithium	0.624	1.2e-06	24	23	Not normal
WAP-17	Lithium	0.898	0.016	25	0	Not normal
WAP-18	Lithium	0.912	0.038	24	0	Not normal
WAP-19	Lithium	0.658	2.1e-06	25	0	Not normal
WAP-9	Lithium	0.936	0.13	24	0	Normal
WBW-1 (Background)	Lithium	0.649	2.3e-06	24	23	Not normal
Pooled Background	Mercury	0.137	1.2e-14	44	43	Not normal
WAP-1 (Background)	Mercury	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-17	Mercury	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-18	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-19	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-9	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Mercury	0.221	7.4e-10	22	21	Not normal
Pooled Background	Molybdenum	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-17	Molybdenum	0.513	7.5e-08	24	1	Not normal
WAP-18	Molybdenum	0.496	7.9e-08	23	0	Not normal
WAP-19	Molybdenum	0.931	0.12	23	2	Normal
WAP-9	Molybdenum	0.777	0.00013	24	15	Not normal
WBW-1 (Background)	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
Pooled Background	Radium-226 & 228	0.889	0.00028	48	12	Not normal
WAP-1 (Background)	Radium-226 & 228	0.828	0.00089	24	5	Not normal
WAP-17	Radium-226 & 228	0.935	0.13	24	7	Normal
WAP-18	Radium-226 & 228	0.861	0.0036	24	7	Not normal
WAP-19	Radium-226 & 228	0.802	0.00032	24	9	Not normal
WAP-9	Radium-226 & 228	0.948	0.24	24	3	Normal
WBW-1 (Background)	Radium-226 & 228	0.896	0.018	24	7	Not normal
Pooled Background	Selenium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-17	Selenium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-18	Selenium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-19	Selenium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-9	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Selenium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	44	44	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Thallium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-17	Thallium	NA	NA	21	21	Not Evaluated - All Non-Detect Results
WAP-18	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-19	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-9	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Thallium	NA	NA	22	22	Not Evaluated - All Non-Detect Results

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

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

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

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
Pooled Background	Antimony	44	43	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Antimony	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-17	Antimony	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Antimony	20	19	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Antimony	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Arsenic	50	43	Rosner	3.574, 3.23, 3.498	NA	3.128, 3.12, 3.112	3	NA	No
WAP-1	Arsenic	26	19	Rosner	2.86, 2.68, 3.1	NA	2.841, 2.822, 2.802	3	NA	No
WAP-17	Arsenic	25	0	Dixon	0.4153	0.08542	NA	NA	No	No
WAP-18	Arsenic	24	0	Dixon	0.3751	0.1788	NA	NA	No	No
WAP-19	Arsenic	24	0	Dixon	0.5813	0	NA	NA	Yes	No
WAP-9	Arsenic	26	0	Rosner	2.09, 2.252, 2.086	NA	2.841, 2.822, 2.802	0	NA	No
WBW-1	Arsenic	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Barium	50	0	Rosner	2.707, 2.373, 2.555	NA	3.128, 3.12, 3.112	0	NA	No
WAP-1	Barium	26	0	Rosner	1.99, 1.686, 1.836	NA	2.841, 2.822, 2.802	0	NA	No
WAP-17	Barium	25	0	Dixon	0.5071	0.01264	NA	NA	Yes	No
WAP-18	Barium	24	0	Dixon	0.3522	0.2438	NA	NA	No	No
WAP-19	Barium	24	0	Dixon	0.3013	0.4379	NA	NA	No	No
WAP-9	Barium	26	0	Rosner	2.833, 2.654, 2.384	NA	2.841, 2.822, 2.802	0	NA	No
WBW-1	Barium	24	0	Dixon	0.4943	0.02127	NA	NA	Yes	No
Pooled Background	Beryllium	44	44	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Beryllium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Beryllium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Beryllium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Cadmium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Cadmium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Cadmium	20	19	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-19	Cadmium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Cadmium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Chromium	48	47	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Chromium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Chromium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Chromium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Chromium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Cobalt	48	29	Rosner	6.061, 4.258, 3.618	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Cobalt	24	13	Dixon	0.1727	0.805	NA	NA	No	No
WAP-17	Cobalt	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Cobalt	22	11	Dixon	0.4393	0.08615	NA	NA	No	No
WAP-19	Cobalt	23	15	Dixon	0.6724	0	NA	NA	Yes	No
WAP-9	Cobalt	22	19	Dixon	0.936	0	NA	NA	Yes	No
WBW-1	Cobalt	24	16	Dixon	0.7716	0	NA	NA	Yes	No
Pooled Background	Fluoride	50	47	Rosner	5.513, 6.857, NA	NA	3.128, 3.12, 3.112	2	NA	No
WAP-1	Fluoride	25	23	Dixon	1	0	NA	NA	Yes	No
WAP-17	Fluoride	26	14	Rosner	3.032, 2.487, 2.493	NA	2.841, 2.822, 2.802	1	NA	No
WAP-18	Fluoride	25	7	Dixon	0.2614	0.6031	NA	NA	No	No
WAP-19	Fluoride	25	4	Dixon	0.3	0.4172	NA	NA	No	No
WAP-9	Fluoride	25	23	Dixon	1	0	NA	NA	Yes	No
WBW-1	Fluoride	25	24	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Lead	48	44	Rosner	3.603, 4.296, 5.652	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Lead	25	21	Dixon	0.8333	0	NA	NA	Yes	No
WAP-17	Lead	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Lead	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Lead	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Lead	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Lead	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Lithium	48	46	Rosner	1.615, 1.68, 1.754	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-17	Lithium	25	0	Dixon	0.4819	0.02367	NA	NA	Yes	No

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

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
WAP-18	Lithium	24	0	Dixon	0.2858	0.5103	NA	NA	No	No
WAP-19	Lithium	25	0	Dixon	0.5574	0	NA	NA	Yes	No
WAP-9	Lithium	24	0	Dixon	0.2168	0.8954	NA	NA	No	No
WBW-1	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Mercury	44	43	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Mercury	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Mercury	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Mercury	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Molybdenum	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Molybdenum	24	1	Dixon	0.8314	0	NA	NA	Yes	No
WAP-18	Molybdenum	23	0	Dixon	0.7606	0	NA	NA	Yes	No
WAP-19	Molybdenum	23	2	Dixon	0.4766	0.03631	NA	NA	Yes	No
WAP-9	Molybdenum	24	15	Dixon	0.269	0.595	NA	NA	No	No
WBW-1	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Radium-226 & 228	48	12	Rosner	2.049, 1.994, 1.944	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Radium-226 & 228	24	5	Dixon	0.2022	0.9921	NA	NA	No	No
WAP-17	Radium-226 & 228	24	7	Dixon	0.2939	0.4718	NA	NA	No	No
WAP-18	Radium-226 & 228	24	7	Dixon	0.07235	0.1926	NA	NA	No	No
WAP-19	Radium-226 & 228	24	9	Dixon	0.2165	0.8978	NA	NA	No	No
WAP-9	Radium-226 & 228	24	3	Dixon	0.03741	0.06447	NA	NA	No	No
WBW-1	Radium-226 & 228	24	7	Dixon	0.1449	0.6191	NA	NA	No	No
Pooled Background	Selenium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Selenium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Selenium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Selenium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Selenium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Thallium	44	44	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Thallium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-17	Thallium	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-18	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-19	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-9	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Thallium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall Test

		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									
Mann Kendall Trends		Trends, All Data		Trends, Recent Data		n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
Pooled Background	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	44	1	0.722	NA	NA	NA	NA	NA	8	1	2023-02-14 to 2025-06-25	0.347	NA	NA	NA	NA	NA
WAP-1 (Background)	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.739	NA	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.446	NA	NA	NA	NA	NA
WAP-17	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.765	NA	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0.229	NA	NA	NA	NA	NA
WAP-18	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.779	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0.229	NA	NA	NA	NA	NA
WAP-19	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.779	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0.229	NA	NA	NA	NA	NA
WAP-9	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	20	1	0.771	NA	NA	NA	NA	NA	8	1	2018-06-05 to 2025-06-26	0.562	NA	NA	NA	NA	NA
WBW-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.722	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Stable	50	7	0.613	NA	NA	NA	NA	NA	8	3	2023-02-14 to 2025-06-25	0.626	-0.178	0.667	33.3	-4	
WAP-1 (Background)	Arsenic	Increasing	No Trend	26	7	0.633	0.599	0.000125	100	148	148	8	6	2020-02-03 to 2025-06-25	0.441	0.0364	1	0	1	
WAP-17	Arsenic	Decreasing	Stable	25	25	0.337	-0.573	0.0000708	100	-171	-171	8	8	2020-06-10 to 2025-07-14	0.252	-0.214	0.536	46.4	-6	
WAP-18	Arsenic	Decreasing	Stable	24	24	1	-0.345	0.0197	98	-95	-95	8	8	2020-02-04 to 2025-07-08	0.448	-0.4	0.212	78.8	-11	
WAP-19	Arsenic	Increasing	Stable	24	24	0.708	0.388	0.00854	99.1	107	107	8	8	2020-02-04 to 2025-07-07	0.693	-0.429	0.174	82.6	-12	
WAP-9	Arsenic	Decreasing	Stable	26	26	0.663	-0.766	0.000000046	100	-249	-249	8	8	2020-02-04 to 2025-06-26	0.394	-0.143	0.711	28.9	-4	
WBW-1 (Background)	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.197	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.267	NA	NA	NA	NA	NA
Pooled Background	Barium	Increasing	Stable	50	50	0.766	0.284	0.0038	99.6	347	347	8	8	2023-02-14 to 2025-06-25	0.667	-0.357	0.266	73.4	-10	
WAP-1 (Background)	Barium	Increasing	Stable	26	26	0.623	0.419	0.00292	99.7	136	136	8	8	2020-02-03 to 2025-06-25	0.308	-0.4	0.212	78.8	-11	
WAP-17	Barium	Decreasing	No Trend	25	25	0.329	-0.393	0.00628	99.4	-118	-118	8	8	2020-06-10 to 2025-07-14	0.138	0.286	0.386	61.4	8	
WAP-18	Barium	Stable	No Trend	24	24	0.247	-0.0145	0.941	5.9	-4	-4	8	8	2020-02-04 to 2025-07-08	0.375	0.143	0.711	28.9	4	
WAP-19	Barium	No Trend	No Trend	24	24	0.342	0.0217	0.901	9.9	6	6	8	8	2020-02-04 to 2025-07-07	0.345	0.286	0.386	61.4	8	
WAP-9	Barium	No Trend	No Trend	26	26	0.304	0.0401	0.791	20.9	13	13	8	8	2020-02-04 to 2025-06-26	0.292	0.357	0.266	73.4	10	
WBW-1 (Background)	Barium	No Trend	Stable	24	24	0.603	0.186	0.214	78.6	51	51	8	8	2020-02-03 to 2025-06-25	0.498	-0.429	0.174	82.6	-12	
Pooled Background	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	44	0	0	NA	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-17	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0	NA	NA	NA	NA	NA
WAP-18	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0	NA	NA	NA	NA	NA
WAP-19	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0	NA	NA	NA	NA	NA
WAP-9	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0	NA	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-17	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0	NA	NA	NA	NA	NA
WAP-18	Cadmium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	20	1	0.354	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0	NA	NA	NA	NA	NA
WAP-19	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0	NA	NA	NA	NA	NA

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

		Secular Trend Evaluation for All Data									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)							
		Mann-Kendall Test									Mann-Kendall Test							
Mann Kendall Trends		(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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-9	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.09	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	48	1	0.141	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-17	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0	NA	NA	NA	NA
WAP-18	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0	NA	NA	NA	NA
WAP-19	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0	NA	NA	NA	NA
WAP-9	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.192	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.2	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Cobalt	Increasing	Stable	48	19	1.65	0.496	0.0000644	100	448	8	7	2023-02-14 to 2025-06-25	0.327	-0.357	0.266	73.4	-10
WAP-1 (Background)	Cobalt	Increasing	Stable	24	11	0.773	0.548	0.000565	99.9	128	8	8	2020-02-03 to 2025-06-25	0.339	-0.214	0.536	46.4	-6
WAP-17	Cobalt	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	8	0	2020-06-10 to 2025-07-14	0	NA	NA	NA	NA
WAP-18	Cobalt	Increasing	Stable	22	11	1.04	0.476	0.00405	99.6	96	8	7	2020-02-04 to 2025-07-08	0.606	-0.5	0.108	89.2	-14
WAP-19	Cobalt	Increasing	No Trend	23	8	2.04	0.579	0.000527	99.9	112	8	8	2020-06-17 to 2025-07-07	1.19	-0.286	0.386	61.4	-8
WAP-9	Cobalt	Not Evaluated - Majority of data (>75%) non-detect.	Stable/Increasing	22	3	1.41	NA	NA	NA	NA	8	3	2020-02-04 to 2025-06-26	1.31	0.624	0.0624	93.8	14
WBW-1 (Background)	Cobalt	Increasing	Decreasing	24	8	1.81	0.443	0.00684	99.3	92	8	7	2020-02-03 to 2025-06-25	1.24	-0.857	0.00443	99.6	-24
Pooled Background	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	50	3	0.333	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	2	0.415	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-17	Fluoride	Decreasing	Not Evaluated - No detected results.	26	12	0.723	-0.301	0.047	95.3	-85	8	0	2020-06-10 to 2025-07-14	0.126	NA	NA	NA	NA
WAP-18	Fluoride	Stable	Increasing	25	18	0.879	-0.156	0.298	70.2	-45	8	2	2020-02-04 to 2025-07-08	0.558	0.681	0.0485	95.2	13
WAP-19	Fluoride	Increasing	No Trend	25	21	0.644	0.427	0.00359	99.6	125	8	8	2020-02-04 to 2025-07-07	0.506	0.286	0.386	61.4	8
WAP-9	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	25	2	0.281	NA	NA	NA	NA	8	1	2020-02-04 to 2025-06-26	0.314	NA	NA	NA	NA
WBW-1 (Background)	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	25	1	0.192	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	48	4	1.12	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	4	1.06	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.497	NA	NA	NA	NA
WAP-17	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	1.16	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	1.24	NA	NA	NA	NA
WAP-18	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.11	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	1.13	NA	NA	NA	NA
WAP-19	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.11	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	1.13	NA	NA	NA	NA
WAP-9	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	2.99	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0.497	NA	NA	NA	NA
WBW-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	1.22	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	1.13	NA	NA	NA	NA
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	48	2	0.378	NA	NA	NA	NA	8	1	2023-02-14 to 2025-06-25	0.764	NA	NA	NA	NA
WAP-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.416	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
WAP-17	Lithium	Decreasing	Stable	25	25	0.821	-0.793	0.000000311	100	-238	8	8	2020-06-10 to 2025-07-14	0.521	-0.0714	0.902	9.8	-2
WAP-18	Lithium	Stable	No Trend	24	24	0.675	-0.196	0.189	81.1	-54	8	8	2020-02-04 to 2025-07-08	0.296	0.0714	0.902	9.8	2
WAP-19	Lithium	No Trend	Stable	25	25	0.782	0.215	0.141	85.9	64	8	8	2020-06-17 to 2025-07-07	0.616	0	1	0	0

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

		Secular Trend Evaluation for All Data									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)							
		Mann-Kendall Test									Mann-Kendall Test							
Mann Kendall Trends		(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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-9	Lithium	Probably Decreasing	No Trend	24	24	0.311	-0.279	0.0593	94.1	-77	8	8	2020-02-04 to 2025-06-26	0.413	0.357	0.266	73.4	10
WBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.345	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.706	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	44	1	0.147	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-17	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.0432	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0	NA	NA	NA	NA
WAP-18	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0	NA	NA	NA	NA
WAP-19	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0	NA	NA	NA	NA
WAP-9	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.204	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.673	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.272	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
WAP-17	Molybdenum	Decreasing	Probably Decreasing	24	23	1.24	-0.341	0.0211	97.9	-94	8	7	2020-06-10 to 2025-07-14	0.634	-0.571	0.0635	93.7	-16
WAP-18	Molybdenum	Increasing	No Trend	23	23	1.88	0.304	0.0447	95.5	77	8	8	2020-02-04 to 2025-07-08	0.338	0.143	0.711	28.9	4
WAP-19	Molybdenum	Stable	No Trend	23	21	0.588	-0.095	0.543	45.7	-24	8	7	2020-02-04 to 2025-07-07	1.02	-0.286	0.386	61.4	-8
WAP-9	Molybdenum	Decreasing	Not Evaluated - No detected results.	24	9	0.951	-0.755	0.00000137	100	-189	8	0	2020-02-04 to 2025-06-26	0.314	NA	NA	NA	NA
WBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.836	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.37	NA	NA	NA	NA
Pooled Background	Radium 226 & 228	Stable	Stable	48	36	0.552	-0.107	0.295	70.5	-118	8	8	2023-02-14 to 2025-06-25	0.354	-0.214	0.536	46.4	-6
WAP-1 (Background)	Radium-226 & 228	Stable	No Trend	24	19	0.55	-0.159	0.295	70.5	-43	8	8	2020-02-03 to 2025-06-25	0.492	0.0364	1	0	1
WAP-17	Radium-226 & 228	Stable	No Trend	24	17	0.596	-0.049	0.763	23.7	-13	8	8	2020-02-05 to 2025-07-14	0.437	0.214	0.536	46.4	6
WAP-18	Radium-226 & 228	Stable	Stable	24	17	0.503	-0.237	0.119	88.1	-63	8	8	2020-02-04 to 2025-07-08	0.61	-0.5	0.108	89.2	-14
WAP-19	Radium-226 & 228	No Trend	Stable	24	15	0.442	0.136	0.385	61.5	35	8	8	2020-02-04 to 2025-07-07	0.395	0	1	0	0
WAP-9	Radium-226 & 228	Stable	Stable	24	21	0.439	-0.241	0.106	89.4	-66	8	8	2020-02-04 to 2025-06-26	0.478	-0.357	0.266	73.4	-10
WBW-1 (Background)	Radium-226 & 228	Stable	Stable	24	17	0.547	-0.0448	0.783	21.7	-12	8	8	2020-02-03 to 2025-06-25	0.398	-0.357	0.266	73.4	-10
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.382	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.366	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.524	NA	NA	NA	NA
WAP-17	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0.395	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0.524	NA	NA	NA	NA
WAP-18	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.425	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0.572	NA	NA	NA	NA
WAP-19	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.425	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0.572	NA	NA	NA	NA
WAP-9	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.714	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0.524	NA	NA	NA	NA
WBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.403	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.572	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	44	0	0.139	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.2	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-17	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	21	0	0	NA	NA	NA	NA	8	0	2019-02-05 to 2025-07-14	0	NA	NA	NA	NA
WAP-18	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0	NA	NA	NA	NA
WAP-19	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-07	0	NA	NA	NA	NA

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

		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)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-9	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0	NA	NA	NA	NA
WBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA

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

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

Constituent	Units	n	Interwell Background Data Characterization [a]										Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		Minimum Coverage (%)		
			R, Non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source		UTL calculation method	UTL calculation details
Antimony	mg/L	44	43	0.023	0.0033	0.00383	0.003	2015-11-10	2025-06-23	0.00423	0.727	No Trend	Not normal (Interwell Background)	NA - Original Data	0.023	No	0.006	0.023	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Arsenic	mg/L	30	43	0.003	0.0056	0.00488	0.003	2015-11-10	2025-06-23	0.00129	0.26	Increasing	Not normal (Interwell Background)	NA - Original Data	0.0056	Yes	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Barium	mg/L	30	0	NA	0.094	0.0306	0.0222	2015-11-10	2025-06-23	0.0234	0.766	Increasing	Not normal (Interwell Background)	NA - Original Data	0.094	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Beryllium	mg/L	44	44	0.0003	NA	0.0003	0.0003	2015-11-10	2025-06-23	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0003	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Cadmium	mg/L	48	48	0.0003	NA	0.0003	0.0003	2015-11-10	2025-06-23	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0003	No	0.003	0.003	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Chromium	mg/L	48	47	0.003	0.003	0.003	0.003	2015-11-10	2025-06-23	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.003	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Cobalt	mg/L	48	29	0.0003	0.00838	0.000933	0.0003	2015-11-10	2025-06-23	0.00523	1.32	Increasing	Not normal (Interwell Background)	NA - Original Data	0.00838	Yes	0.006	0.00838	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Fluoride	mg/L	30	47	0.1	0.14	0.101	0.1	2015-11-10	2025-06-23	0.007	0.069	Stable	Not normal (Interwell Background)	NA - Original Data	0.14	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lead	mg/L	48	44	0.01	0.00436	0.00198	0.001	2015-11-10	2025-06-23	0.00223	1.13	No Trend	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.013	0.013	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Lithium	mg/L	48	46	0.01	0.0116	0.00868	0.01	2015-11-10	2025-06-23	0.00228	0.262	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.0116	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Mercury	mg/L	44	43	0.0002	0.0002	0.0002	0.0002	2015-11-10	2025-06-23	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Molybdenum	mg/L	48	48	0.03	NA	0.00948	0.01	2015-11-10	2025-06-23	0.00638	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.03	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Radium-226 & 228	pCi/l	48	12	4	3.97	3.03	4	2015-11-10	2025-06-23	1.49	0.488	Decreasing	Not normal (Interwell Background)	NA - Original Data	3.97	Yes	3	3.97	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Selenium	mg/L	48	48	0.02	NA	0.0109	0.01	2015-11-10	2025-06-23	0.00418	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.03	0.03	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Thallium	mg/L	44	44	0.001	NA	0.00058	0.001	2015-11-10	2025-06-23	0.000136	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4

Note:
 [a] Interwell background datasets are analyte specific and include data collected from background wells. Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
 [b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.
 [c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.
 Units = mg/L, milligrams per liter; pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

Location	Chemical	Units	Confidence Interval (CI) Dataset					CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics		
			n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
WAP-17	Arsenic	mg/L	25	0.24	0.0703	0.108	0.12	0.0404	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.121	0.095	0.01	Yes, SSL	10000	0.0996
WAP-18	Arsenic	mg/L	24	1.53	0.0633	0.244	0.408	0.409	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.33	0.137	0.01	Yes, SSL	10000	0.2445
WAP-19	Arsenic	mg/L	24	0.474	0.0199	0.117	0.131	0.0926	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.125	0.0831	0.01	Yes, SSL	10000	0.1175
WAP-9	Arsenic	mg/L	26	0.42	0.0295	0.169	0.176	0.117	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	25	0.223	0.129	0.01	Yes, SSL	NA	NA
WAP-18	Lithium	mg/L	24	0.54	0.0437	0.169	0.208	0.141	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	23	0.26	0.104	0.04	Yes, SSL	10000	0.1695
WAP-19	Lithium	mg/L	25	1.45	0.0733	0.26	0.383	0.3	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.3	0.24	0.04	Yes, SSL	10000	0.26
WAP-9	Lithium	mg/L	24	0.13	0.0374	0.0695	0.0757	0.0235	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	0.0857	0.0658	0.04	Yes, SSL	NA	NA
WAP-18	Molybdenum	mg/L	23	2.9	0.012	0.158	0.332	0.626	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	22	0.21	0.09	0.10	No	10000	0.165

Note:

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

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

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

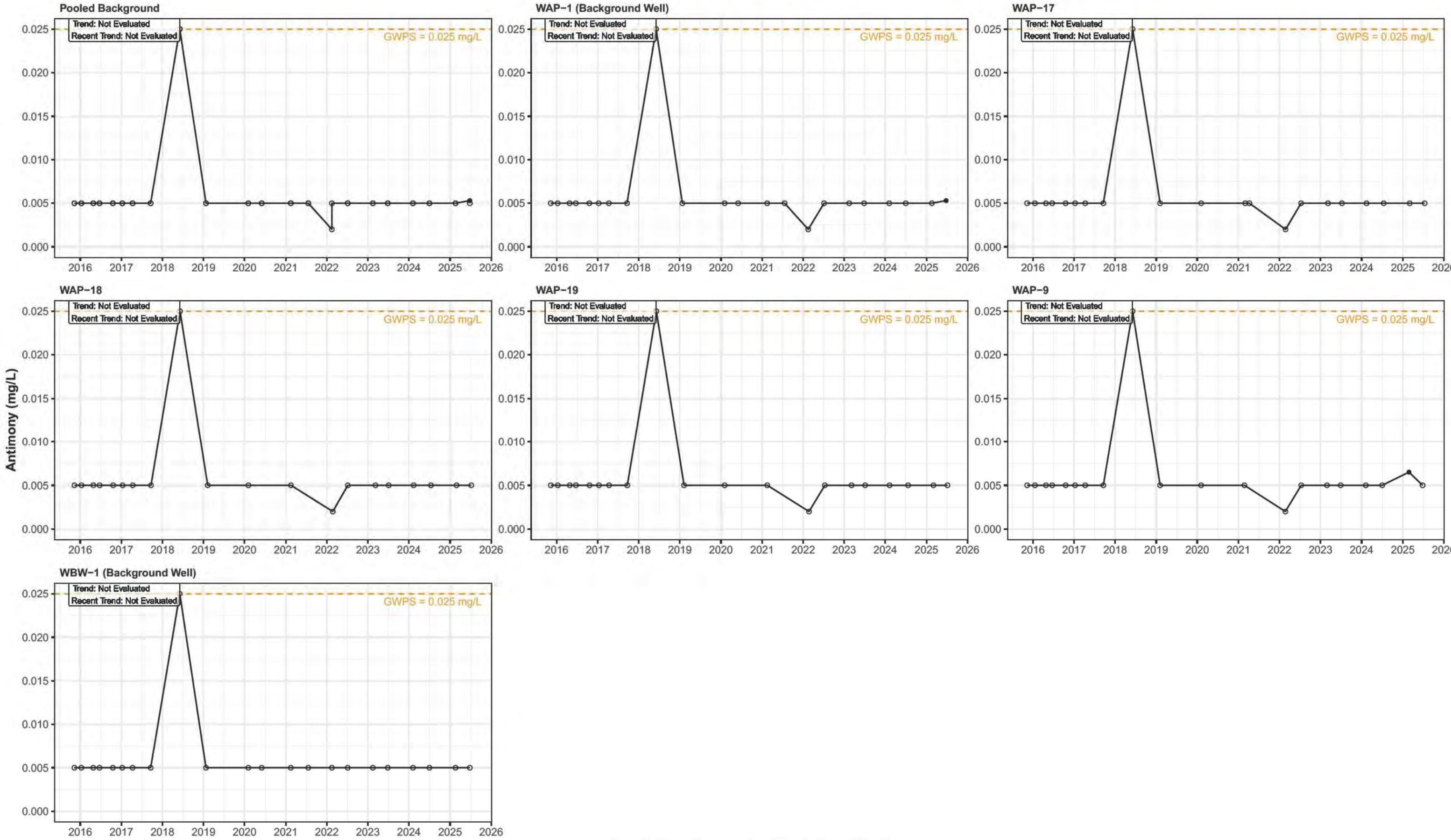
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-17	Arsenic	mg/L	2025-07-14	0.0968	0.0096	0.01	Yes	0.095	Yes
WAP-18	Arsenic	mg/L	2025-07-08	0.0633	0.0096	0.01	Yes	0.137	Yes
WAP-19	Arsenic	mg/L	2025-07-07	0.118	0.0096	0.01	Yes	0.0831	Yes
WAP-9	Arsenic	mg/L	2025-06-26	0.0409	0.0096	0.01	Yes	0.129	Yes
WAP-18	Lithium	mg/L	2025-07-08	0.0437	0.0116	0.04	Yes	0.104	Yes
WAP-19	Lithium	mg/L	2025-07-07	0.571	0.0116	0.04	Yes	0.24	Yes
WAP-9	Lithium	mg/L	2025-06-26	0.0673	0.0116	0.04	Yes	0.0658	Yes
WAP-1	Antimony	mg/L	2025-06-25	0.0053	0.025	0.025	No	NA	No
WAP-17	Antimony	mg/L	2025-07-14	0.005	0.025	0.025	No	NA	No
WAP-18	Antimony	mg/L	2025-07-08	0.005	0.025	0.025	No	NA	No
WAP-19	Antimony	mg/L	2025-07-07	0.005	0.025	0.025	No	NA	No
WAP-9	Antimony	mg/L	2025-06-26	0.005	0.025	0.025	No	NA	No
WBW-1	Antimony	mg/L	2025-06-25	0.005	0.025	0.025	No	NA	No
WAP-1	Arsenic	mg/L	2025-06-25	0.0057	0.0096	0.01	No	NA	No
WBW-1	Arsenic	mg/L	2025-06-25	0.005	0.0096	0.01	No	NA	No
WAP-1	Barium	mg/L	2025-06-25	0.0365	0.094	2	No	NA	No
WAP-17	Barium	mg/L	2025-07-14	0.0394	0.094	2	No	NA	No
WAP-18	Barium	mg/L	2025-07-08	0.0366	0.094	2	No	NA	No
WAP-19	Barium	mg/L	2025-07-07	0.0586	0.094	2	No	NA	No
WAP-9	Barium	mg/L	2025-06-26	0.0616	0.094	2	No	NA	No
WBW-1	Barium	mg/L	2025-06-25	0.0222	0.094	2	No	NA	No
WAP-1	Beryllium	mg/L	2025-06-25	0.0005	0.0005	0.004	No	NA	No
WAP-17	Beryllium	mg/L	2025-07-14	0.0005	0.0005	0.004	No	NA	No
WAP-18	Beryllium	mg/L	2025-07-08	0.0005	0.0005	0.004	No	NA	No
WAP-19	Beryllium	mg/L	2025-07-07	0.0005	0.0005	0.004	No	NA	No
WAP-9	Beryllium	mg/L	2025-06-26	0.0005	0.0005	0.004	No	NA	No
WBW-1	Beryllium	mg/L	2025-06-25	0.0005	0.0005	0.004	No	NA	No
WAP-1	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-17	Cadmium	mg/L	2025-07-14	0.0005	0.0005	0.005	No	NA	No
WAP-18	Cadmium	mg/L	2025-07-08	0.0005	0.0005	0.005	No	NA	No
WAP-19	Cadmium	mg/L	2025-07-07	0.0005	0.0005	0.005	No	NA	No
WAP-9	Cadmium	mg/L	2025-06-26	0.0005	0.0005	0.005	No	NA	No
WBW-1	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-1	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-17	Chromium	mg/L	2025-07-14	0.005	0.005	0.1	No	NA	No
WAP-18	Chromium	mg/L	2025-07-08	0.005	0.005	0.1	No	NA	No
WAP-19	Chromium	mg/L	2025-07-07	0.005	0.005	0.1	No	NA	No
WAP-9	Chromium	mg/L	2025-06-26	0.005	0.005	0.1	No	NA	No
WBW-1	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-1	Cobalt	mg/L	2025-06-25	0.00094	0.00838	0.00838	No	NA	No
WAP-17	Cobalt	mg/L	2025-07-14	0.0005	0.00838	0.00838	No	NA	No
WAP-18	Cobalt	mg/L	2025-07-08	0.0005	0.00838	0.00838	No	NA	No
WAP-19	Cobalt	mg/L	2025-07-07	0.00065	0.00838	0.00838	No	NA	No
WAP-9	Cobalt	mg/L	2025-06-26	0.003	0.00838	0.00838	No	NA	No
WBW-1	Cobalt	mg/L	2025-06-25	0.0005	0.00838	0.00838	No	NA	No
WAP-1	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-17	Fluoride	mg/L	2025-07-14	0.1	0.14	4	No	NA	No
WAP-18	Fluoride	mg/L	2025-07-08	0.14	0.14	4	No	NA	No
WAP-19	Fluoride	mg/L	2025-07-07	0.29	0.14	4	No	NA	No
WAP-9	Fluoride	mg/L	2025-06-26	0.1	0.14	4	No	NA	No
WBW-1	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-1	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-17	Lead	mg/L	2025-07-14	0.001	0.01	0.015	No	NA	No
WAP-18	Lead	mg/L	2025-07-08	0.001	0.01	0.015	No	NA	No
WAP-19	Lead	mg/L	2025-07-07	0.001	0.01	0.015	No	NA	No
WAP-9	Lead	mg/L	2025-06-26	0.001	0.01	0.015	No	NA	No
WBW-1	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-1	Lithium	mg/L	2025-06-25	0.005	0.0116	0.04	No	NA	No
WAP-17	Lithium	mg/L	2025-07-14	0.0343	0.0116	0.04	No	NA	No
WBW-1	Lithium	mg/L	2025-06-25	0.005	0.0116	0.04	No	NA	No
WAP-1	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-17	Mercury	mg/L	2025-07-14	0.0002	0.0002	0.002	No	NA	No

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

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-18	Mercury	mg/L	2025-07-08	0.0002	0.0002	0.002	No	NA	No
WAP-19	Mercury	mg/L	2025-07-07	0.0002	0.0002	0.002	No	NA	No
WAP-9	Mercury	mg/L	2025-06-26	0.0002	0.0002	0.002	No	NA	No
WBW-1	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-1	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-17	Molybdenum	mg/L	2025-07-14	0.0206	0.05	0.1	No	NA	No
WAP-18	Molybdenum	mg/L	2025-07-08	0.279	0.05	0.1	Yes	0.09	No
WAP-19	Molybdenum	mg/L	2025-07-07	0.0114	0.05	0.1	No	NA	No
WAP-9	Molybdenum	mg/L	2025-06-26	0.005	0.05	0.1	No	NA	No
WBW-1	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-1	Radium-226 & 228	pCi/L	2025-06-25	2.14	5.97	5.97	No	NA	No
WAP-17	Radium-226 & 228	pCi/L	2025-07-14	2.74	5.97	5.97	No	NA	No
WAP-18	Radium-226 & 228	pCi/L	2025-07-08	0.97	5.97	5.97	No	NA	No
WAP-19	Radium-226 & 228	pCi/L	2025-07-07	3.35	5.97	5.97	No	NA	No
WAP-9	Radium-226 & 228	pCi/L	2025-06-26	1.81	5.97	5.97	No	NA	No
WBW-1	Radium-226 & 228	pCi/L	2025-06-25	2.24	5.97	5.97	No	NA	No
WAP-1	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-17	Selenium	mg/L	2025-07-14	0.01	0.02	0.05	No	NA	No
WAP-18	Selenium	mg/L	2025-07-08	0.01	0.02	0.05	No	NA	No
WAP-19	Selenium	mg/L	2025-07-07	0.01	0.02	0.05	No	NA	No
WAP-9	Selenium	mg/L	2025-06-26	0.01	0.02	0.05	No	NA	No
WBW-1	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-1	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No
WAP-17	Thallium	mg/L	2025-07-14	0.001	0.001	0.002	No	NA	No
WAP-18	Thallium	mg/L	2025-07-08	0.001	0.001	0.002	No	NA	No
WAP-19	Thallium	mg/L	2025-07-07	0.001	0.001	0.002	No	NA	No
WAP-9	Thallium	mg/L	2025-06-26	0.001	0.001	0.002	No	NA	No
WBW-1	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No

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

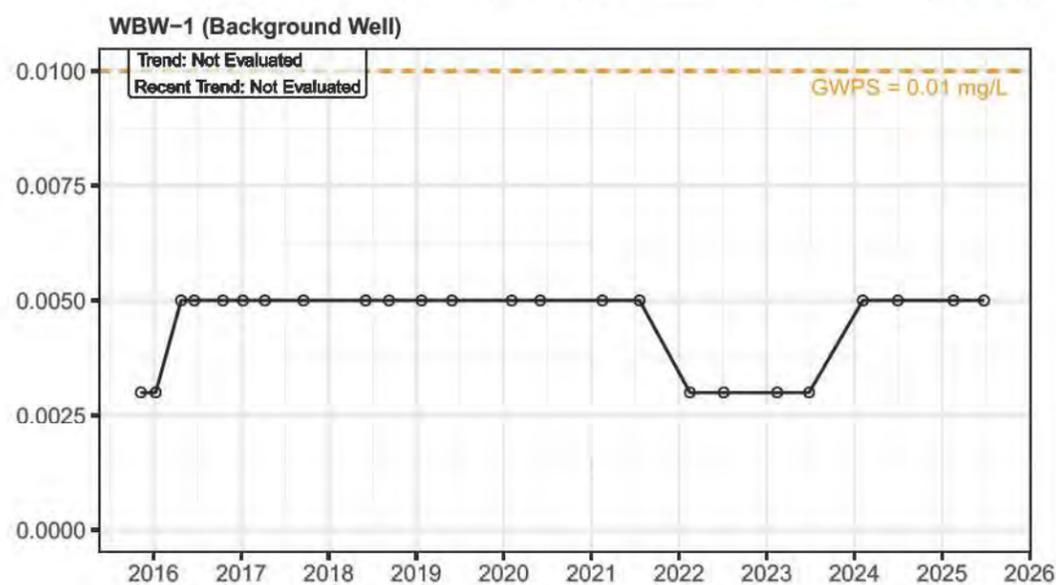
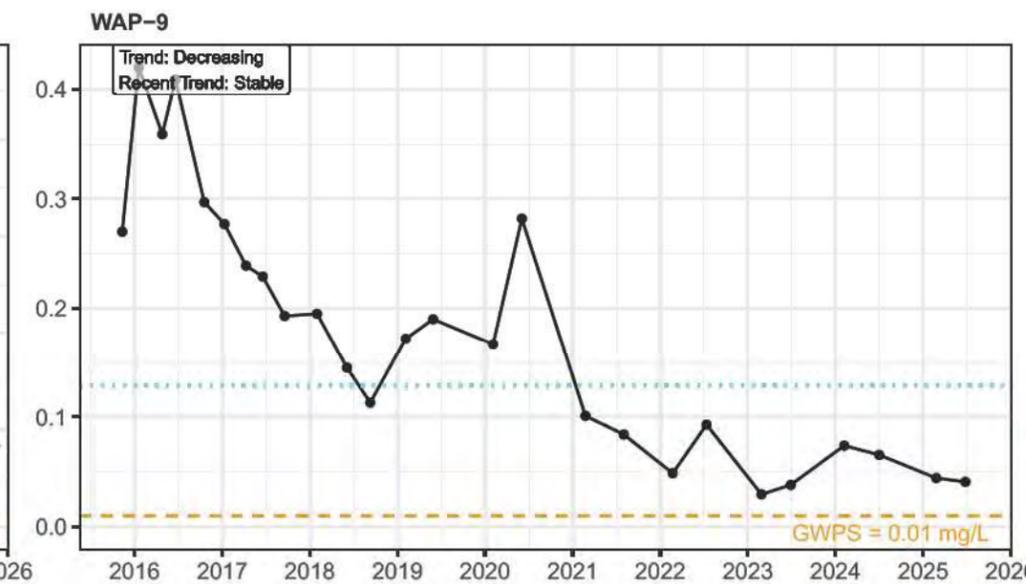
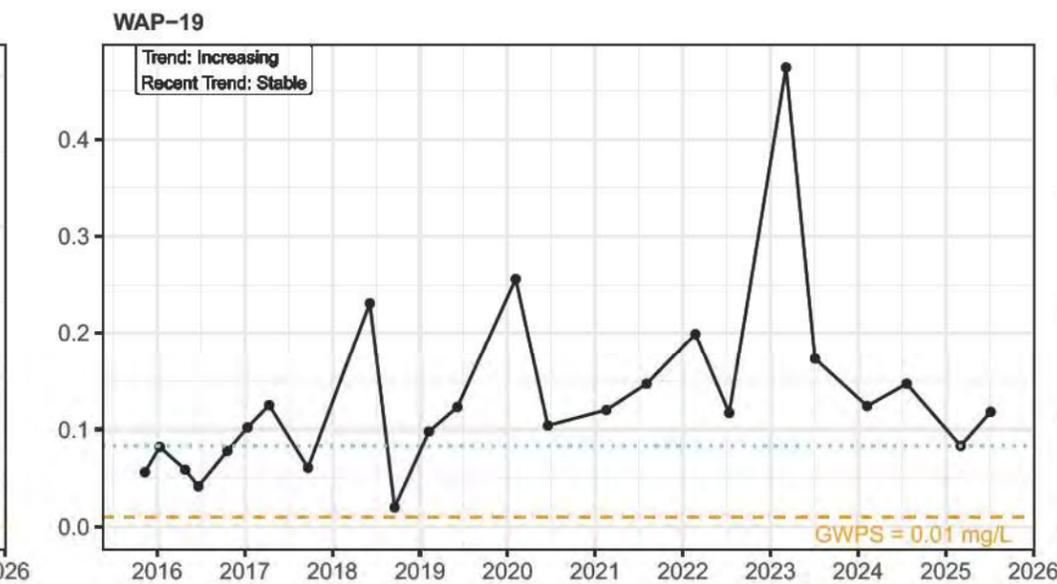
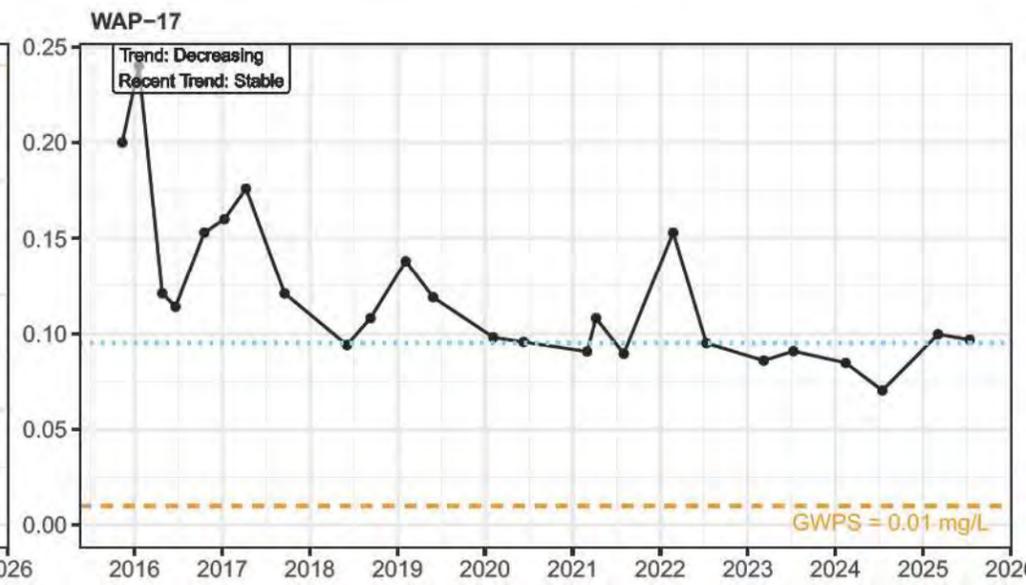
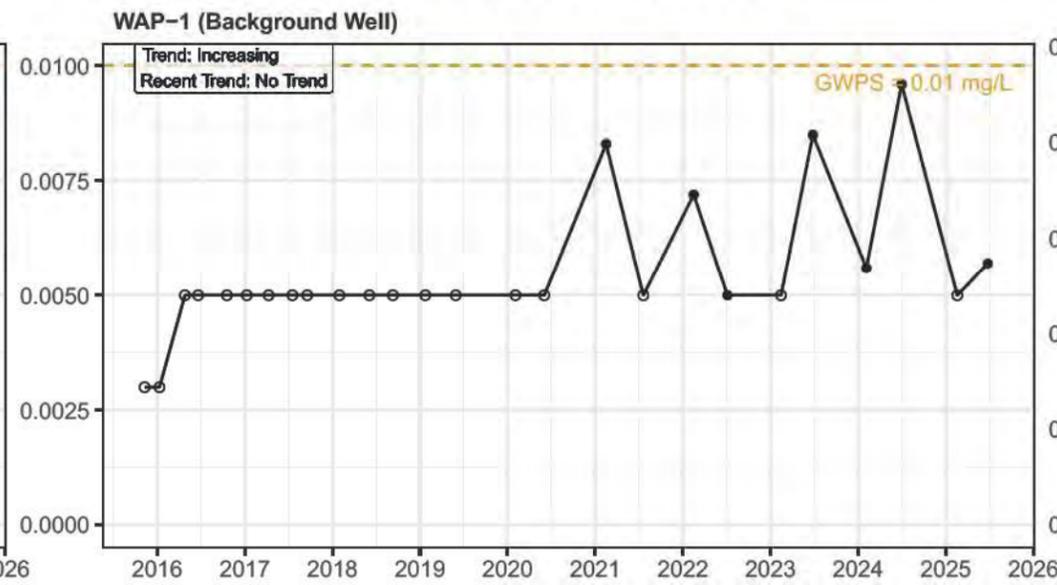
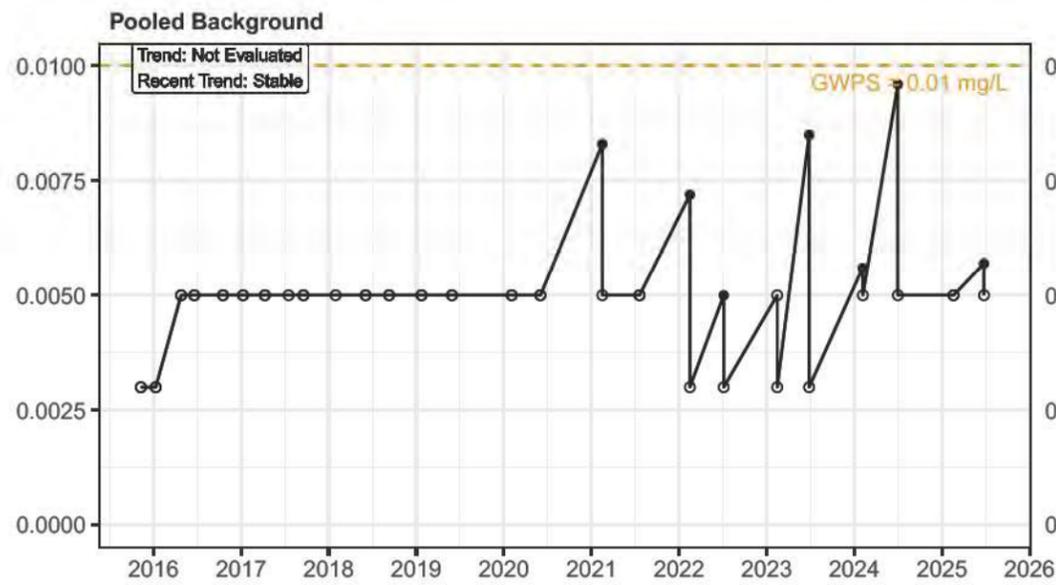
Trend Analysis for Antimony



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis Plots for Arsenic



Sample Date (January 1st of the Indicated Year)

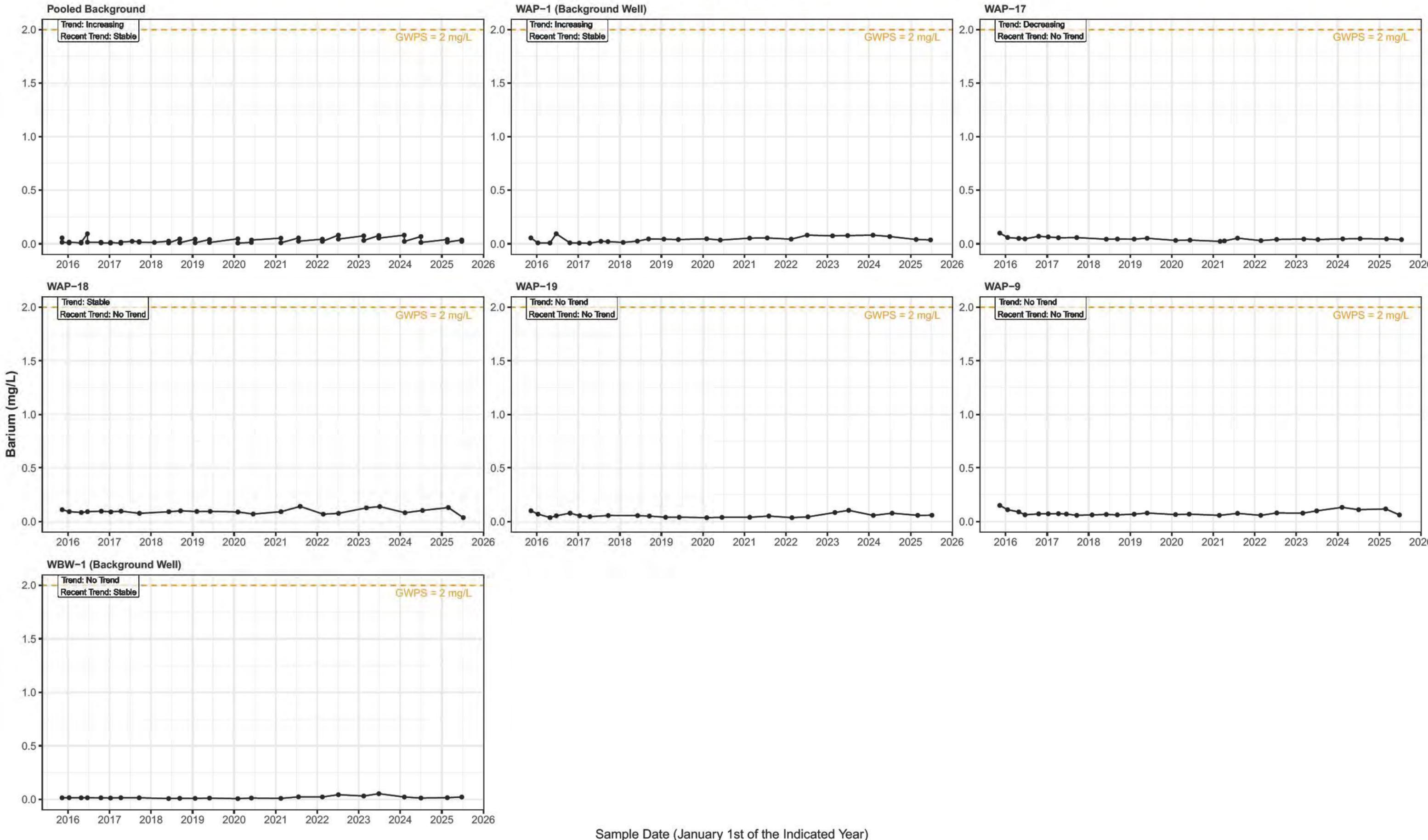
--- GWPS
 ---- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

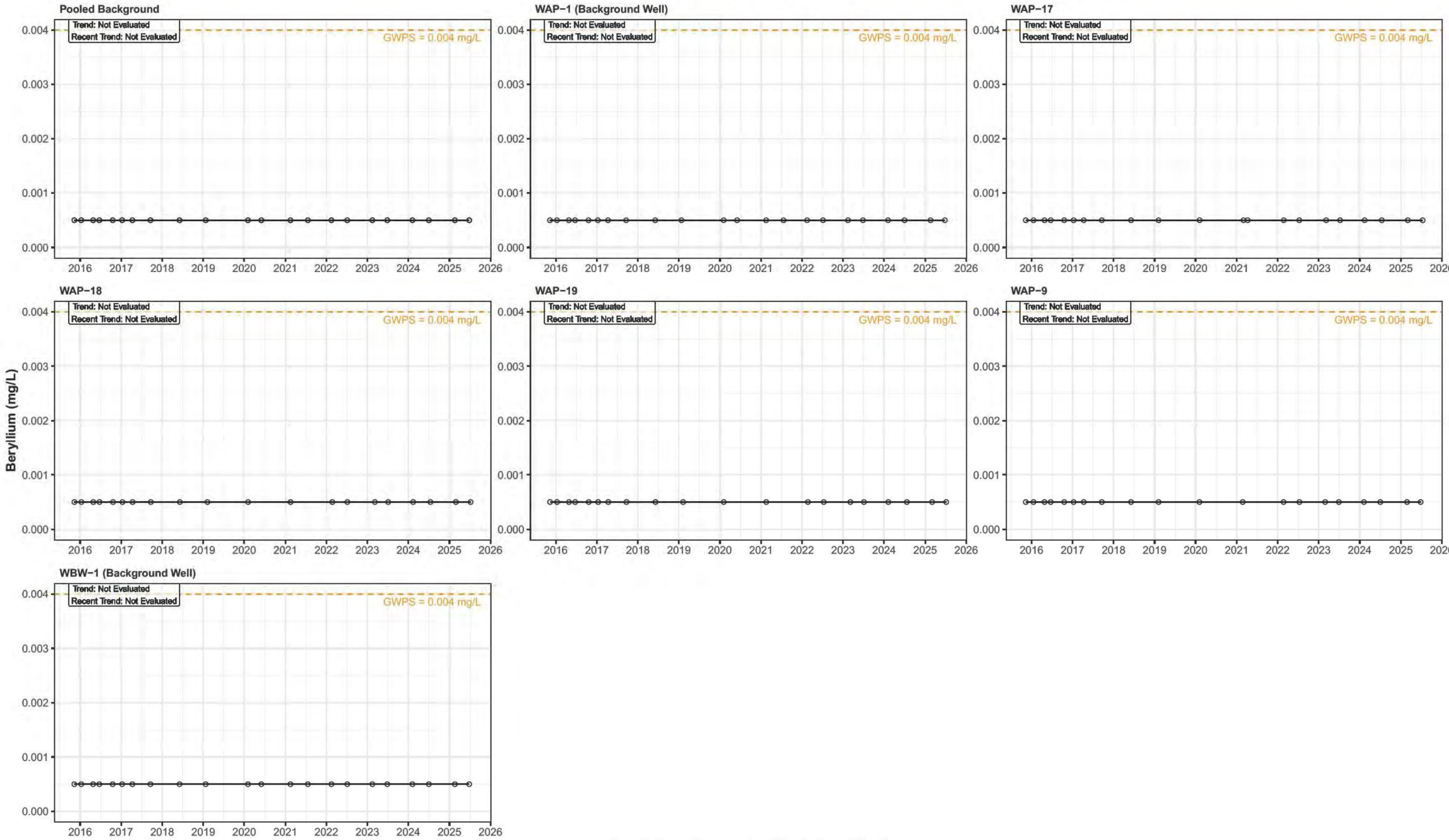
Trend Analysis for Barium



Detection Status: ● Detect

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

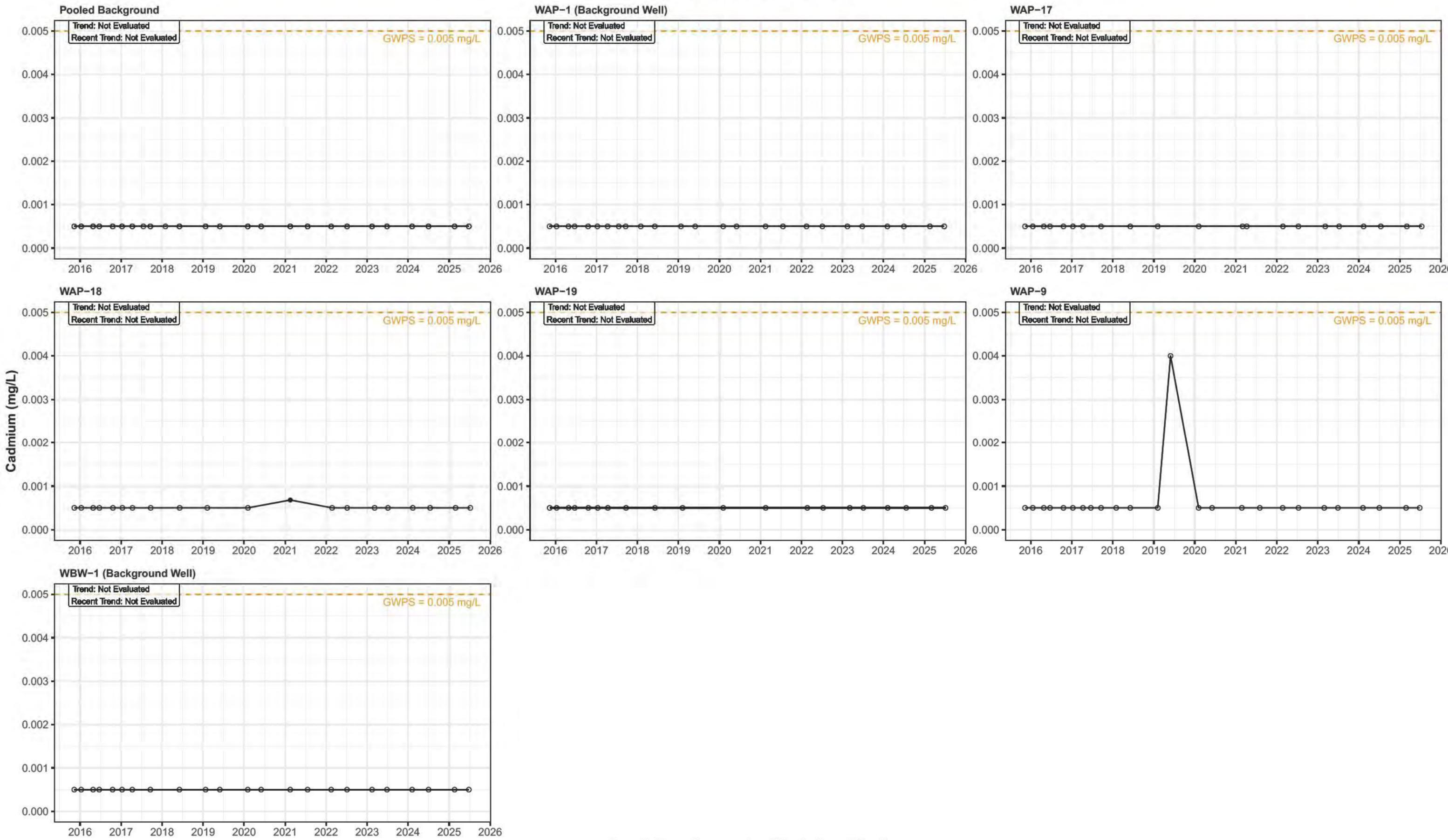
Trend Analysis for Beryllium



Detection Status: ○ Non-Detect

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

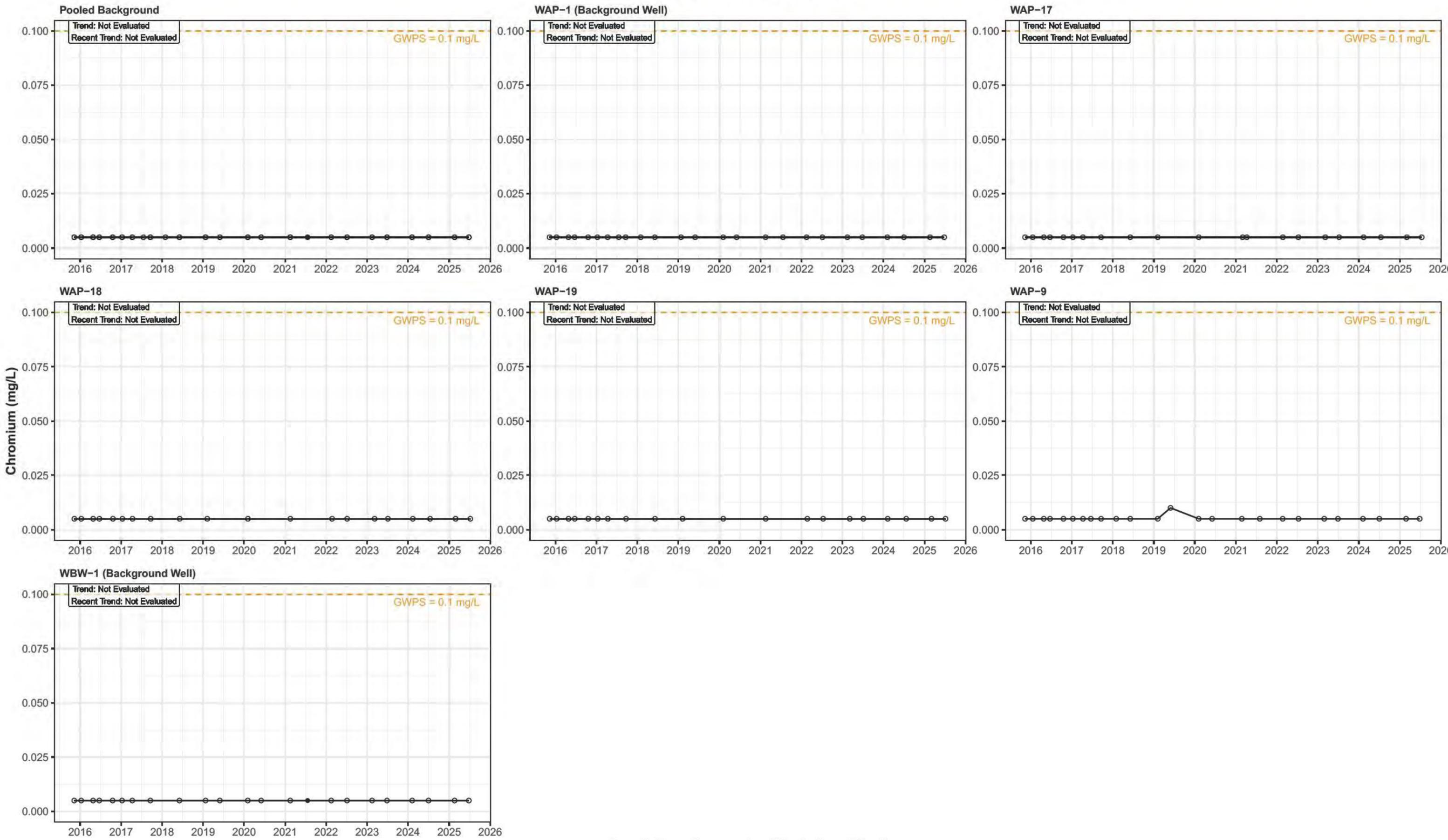
Trend Analysis for Cadmium



Detection Status: ● Detect ○ Non-Detect

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

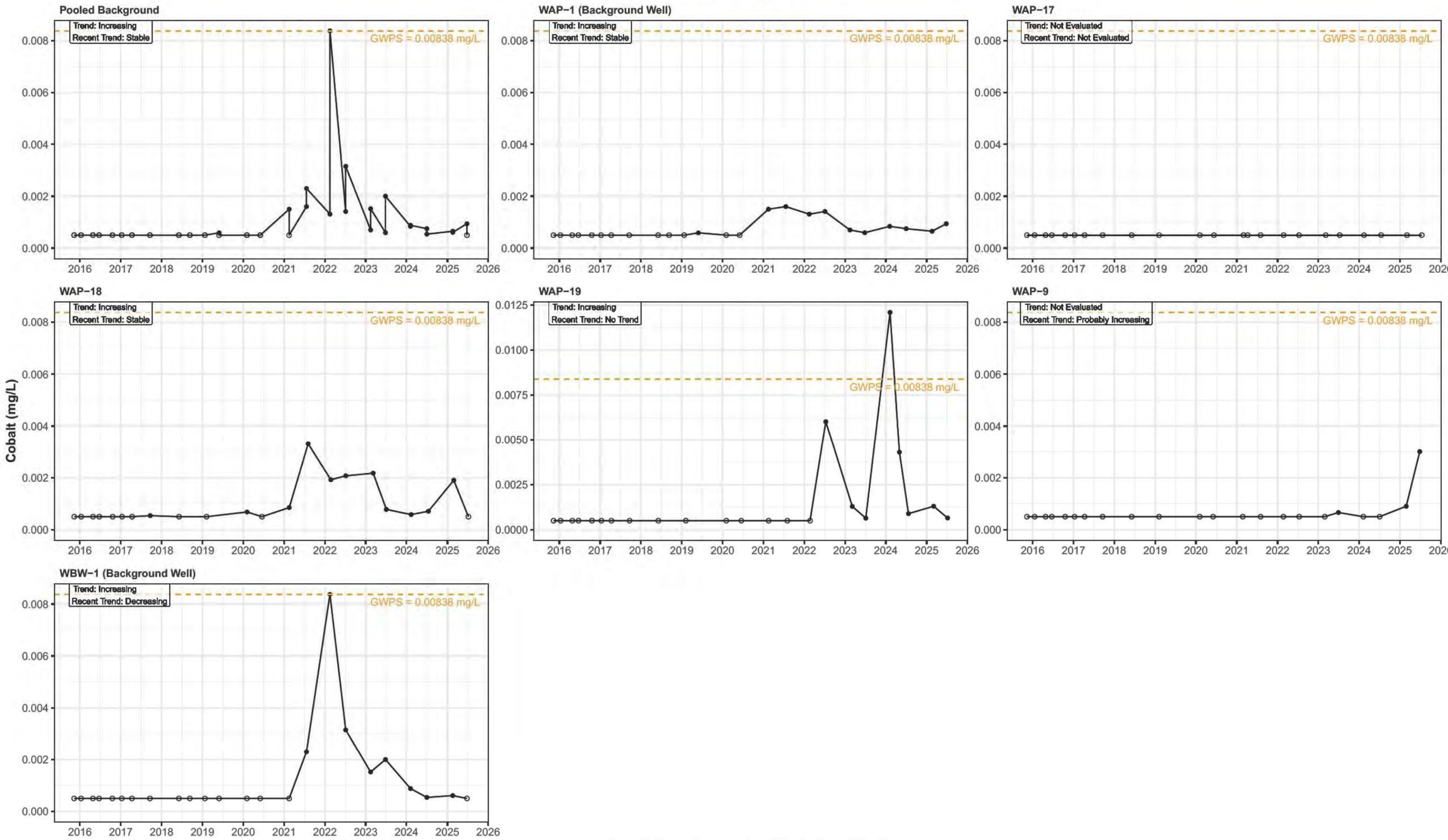
Trend Analysis for Chromium



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis for Cobalt

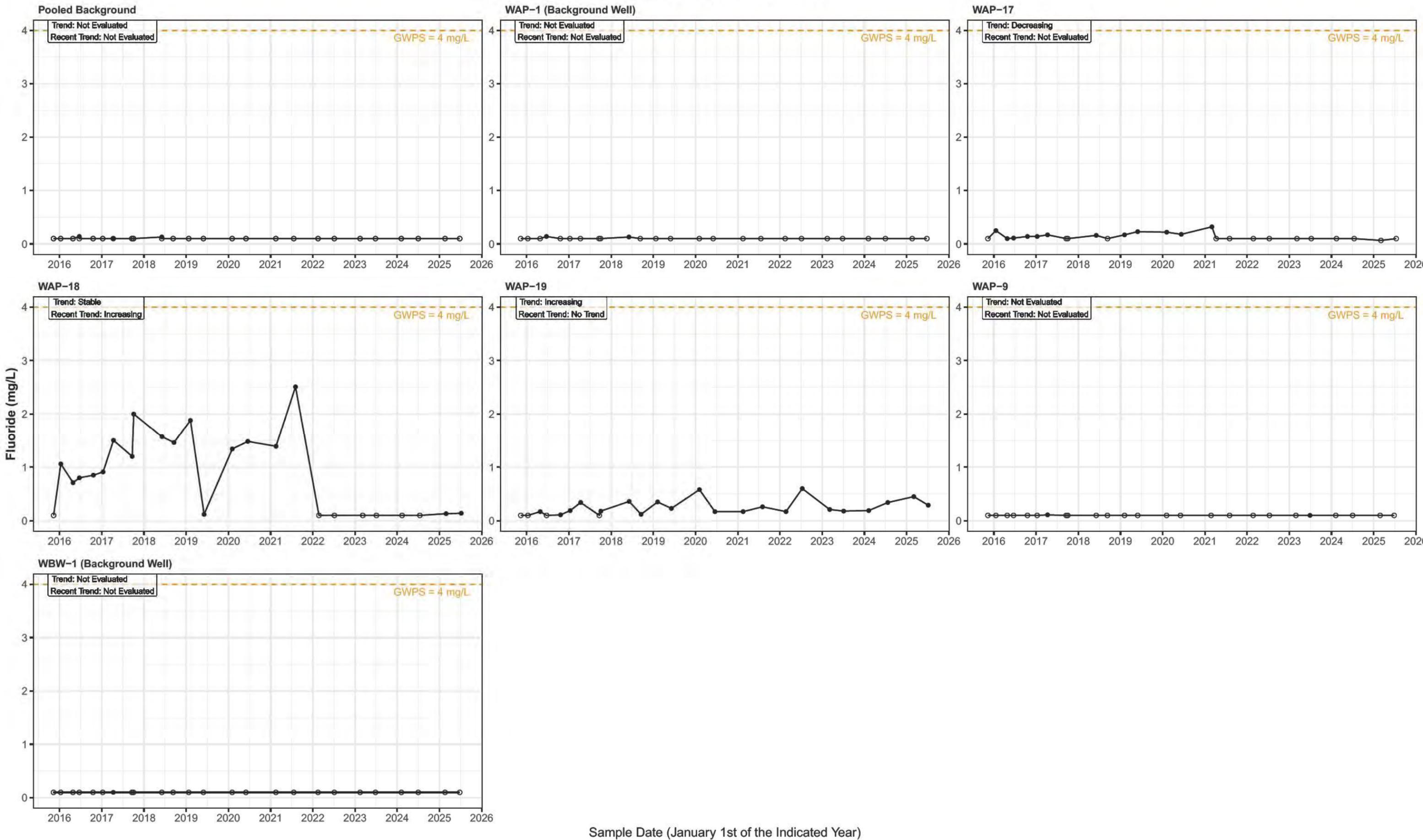


Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non-Detect

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

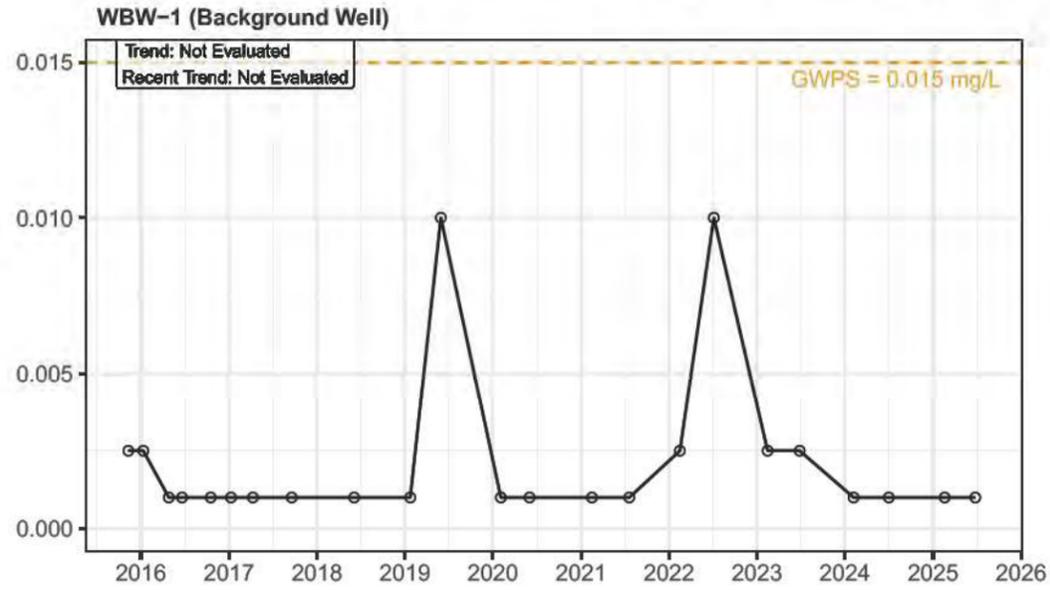
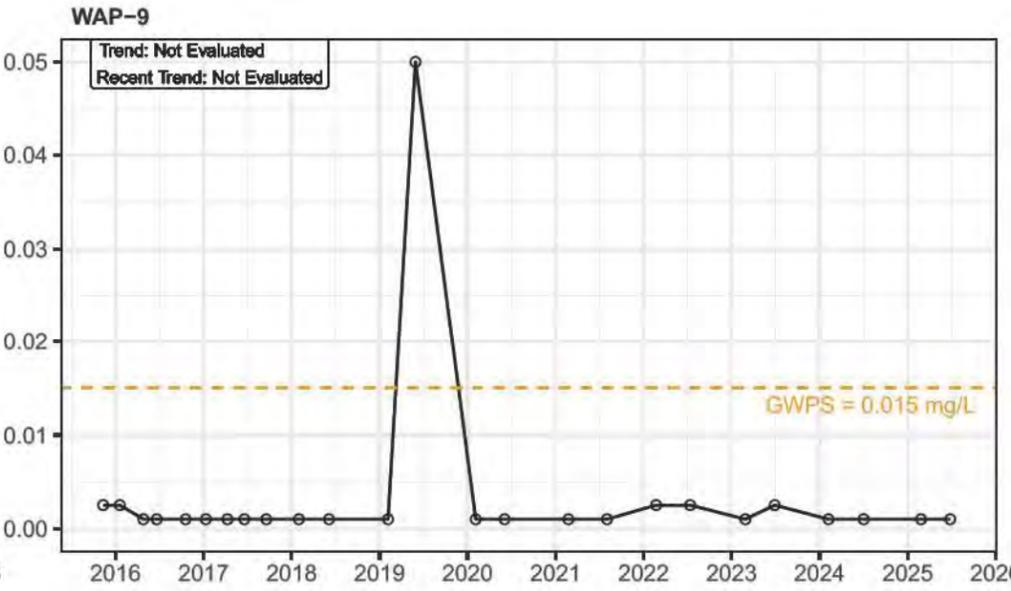
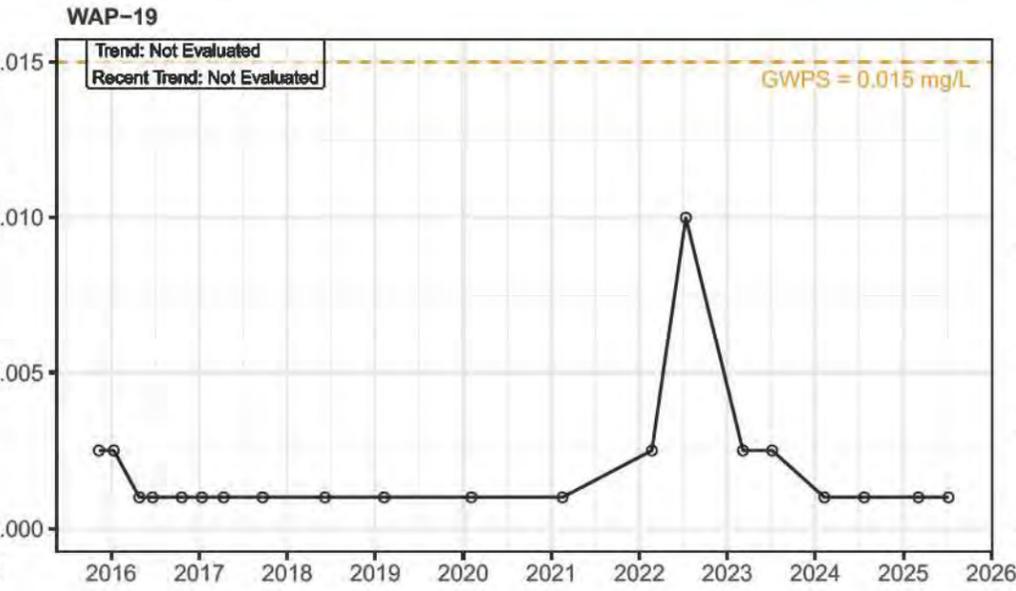
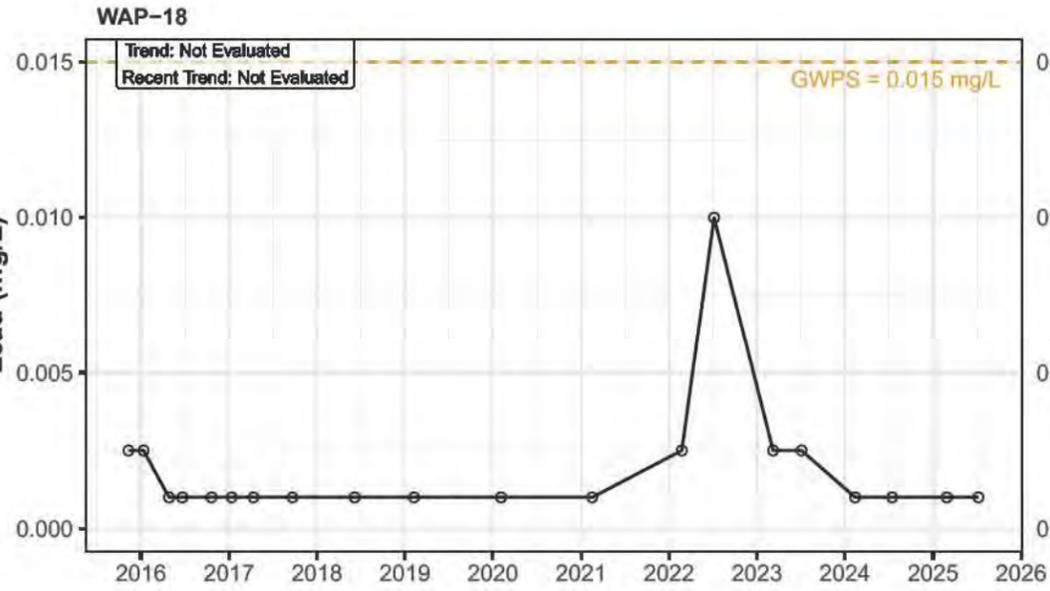
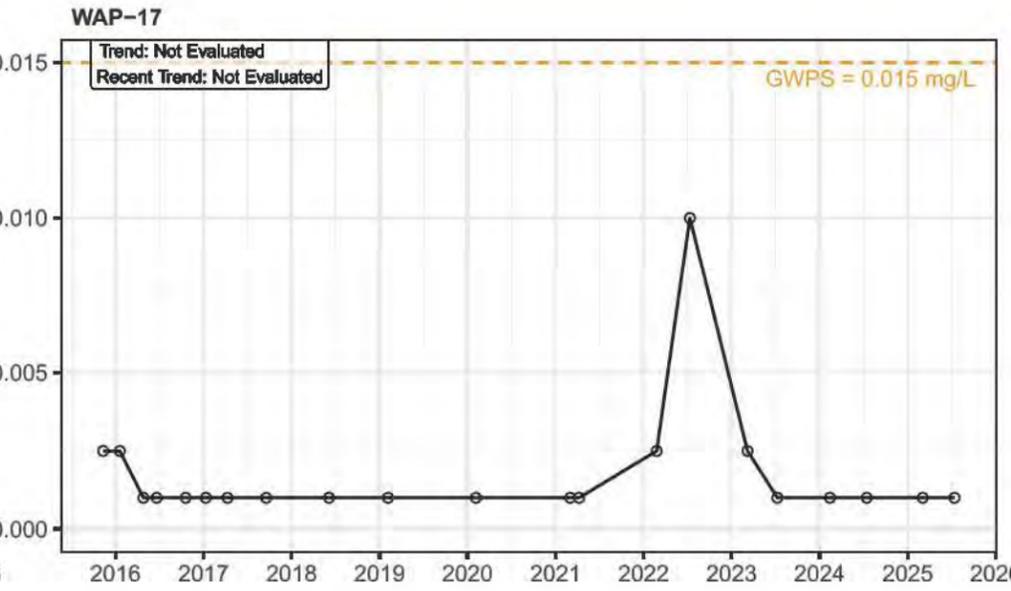
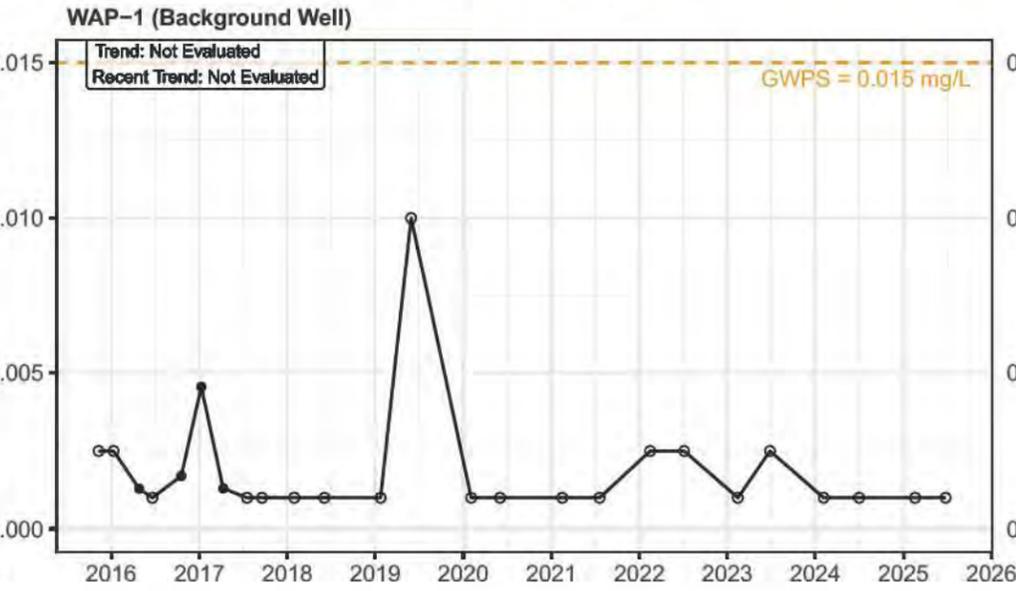
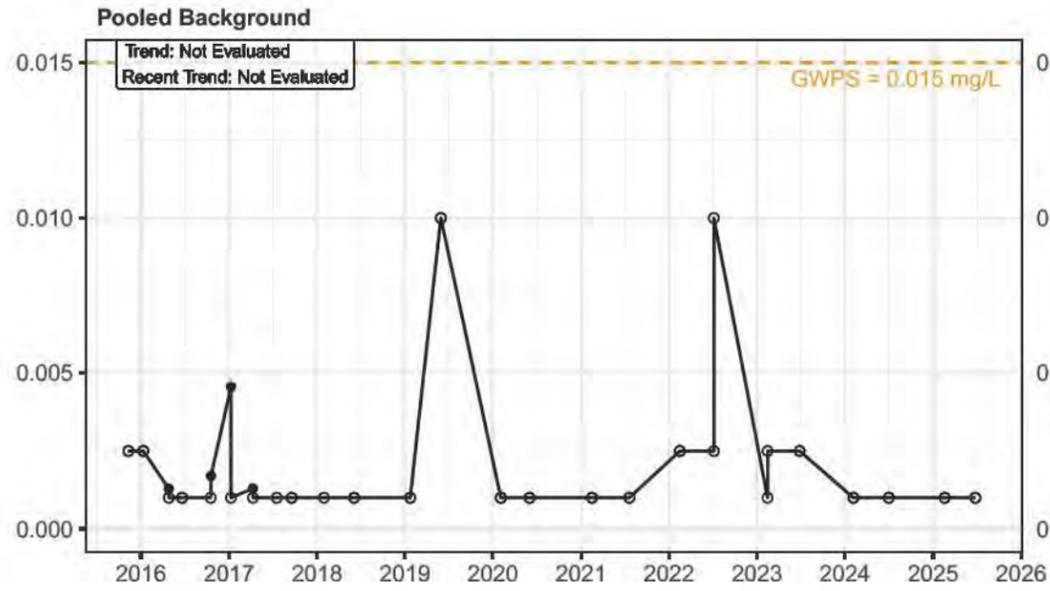
Trend Analysis for Fluoride



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis for Lead

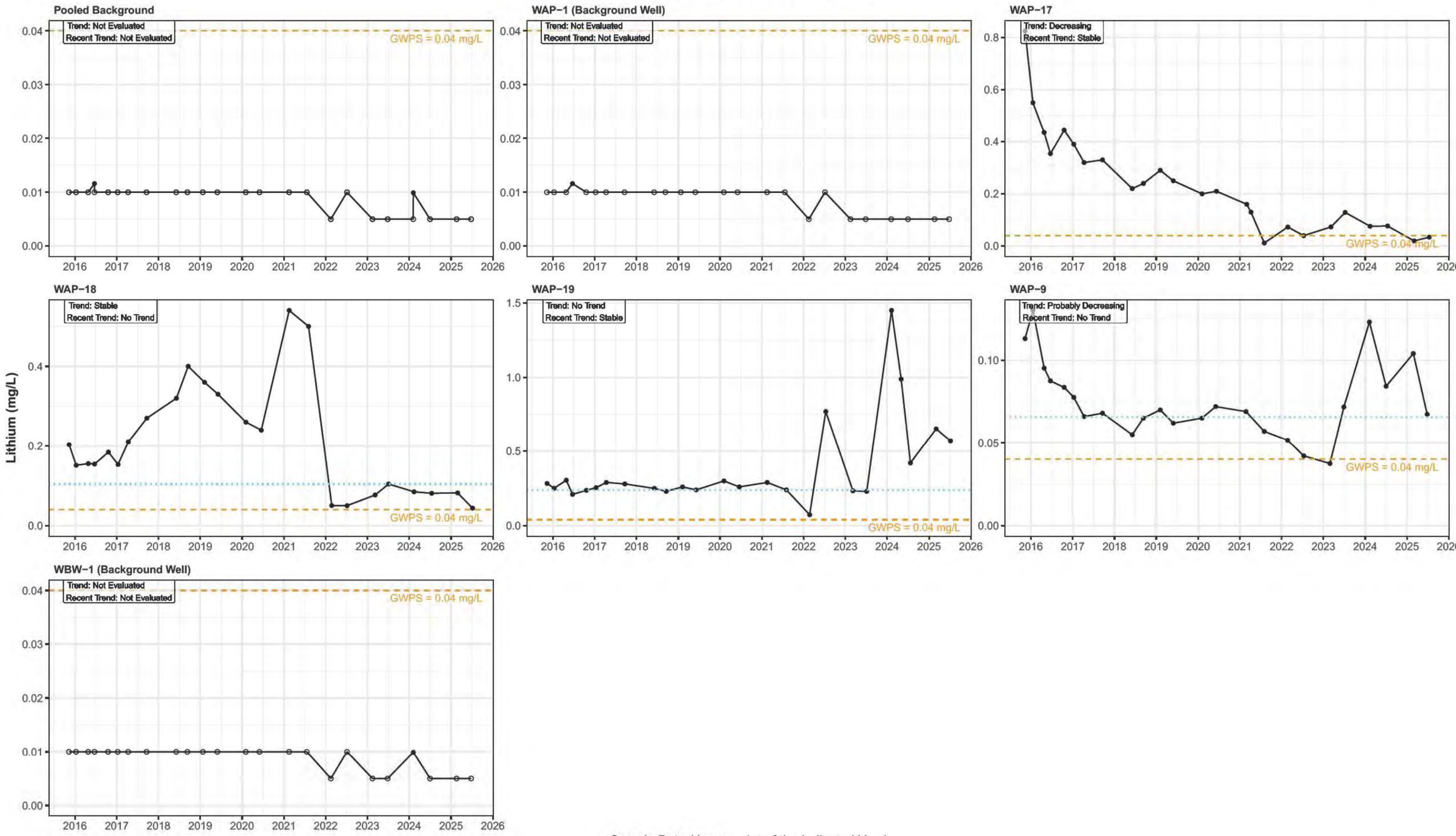


Sample Date (January 1st of the Indicated Year)

Detection Status: ● Detect ○ Non-Detect

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

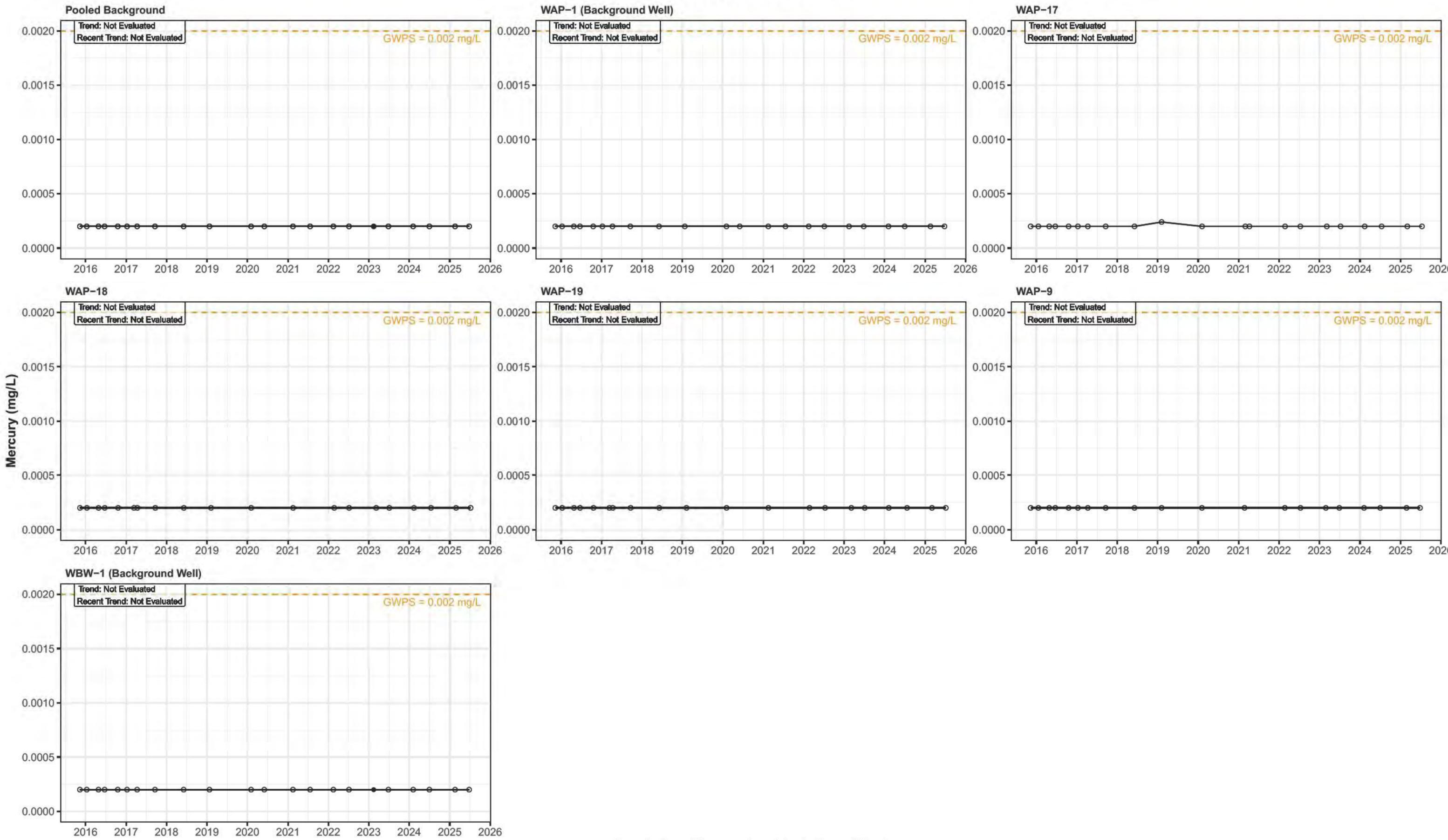
Trend Analysis Plots for Lithium



--- GWPS
 -.-.- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

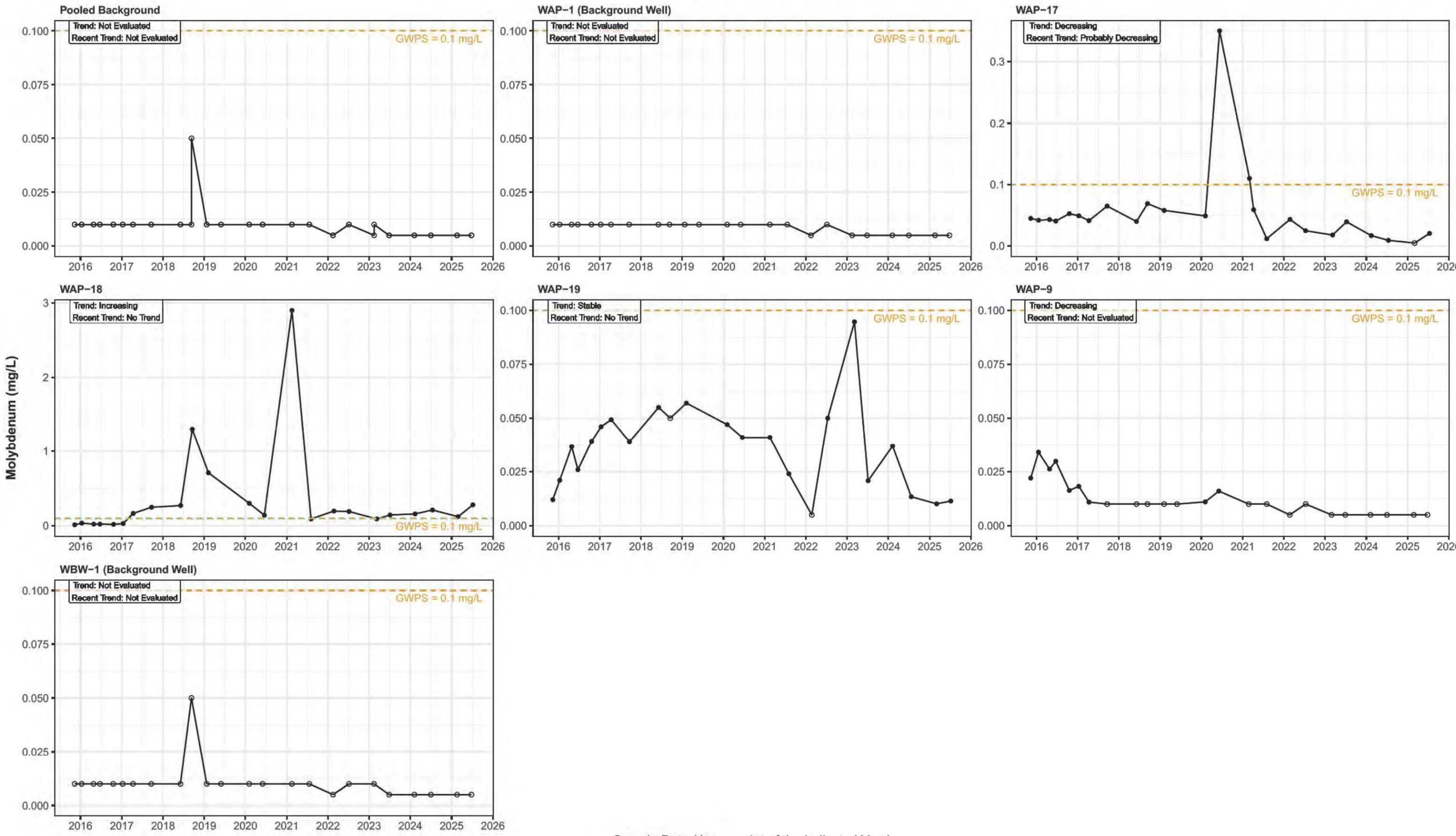
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis Plots for Molybdenum



Sample Date (January 1st of the Indicated Year)

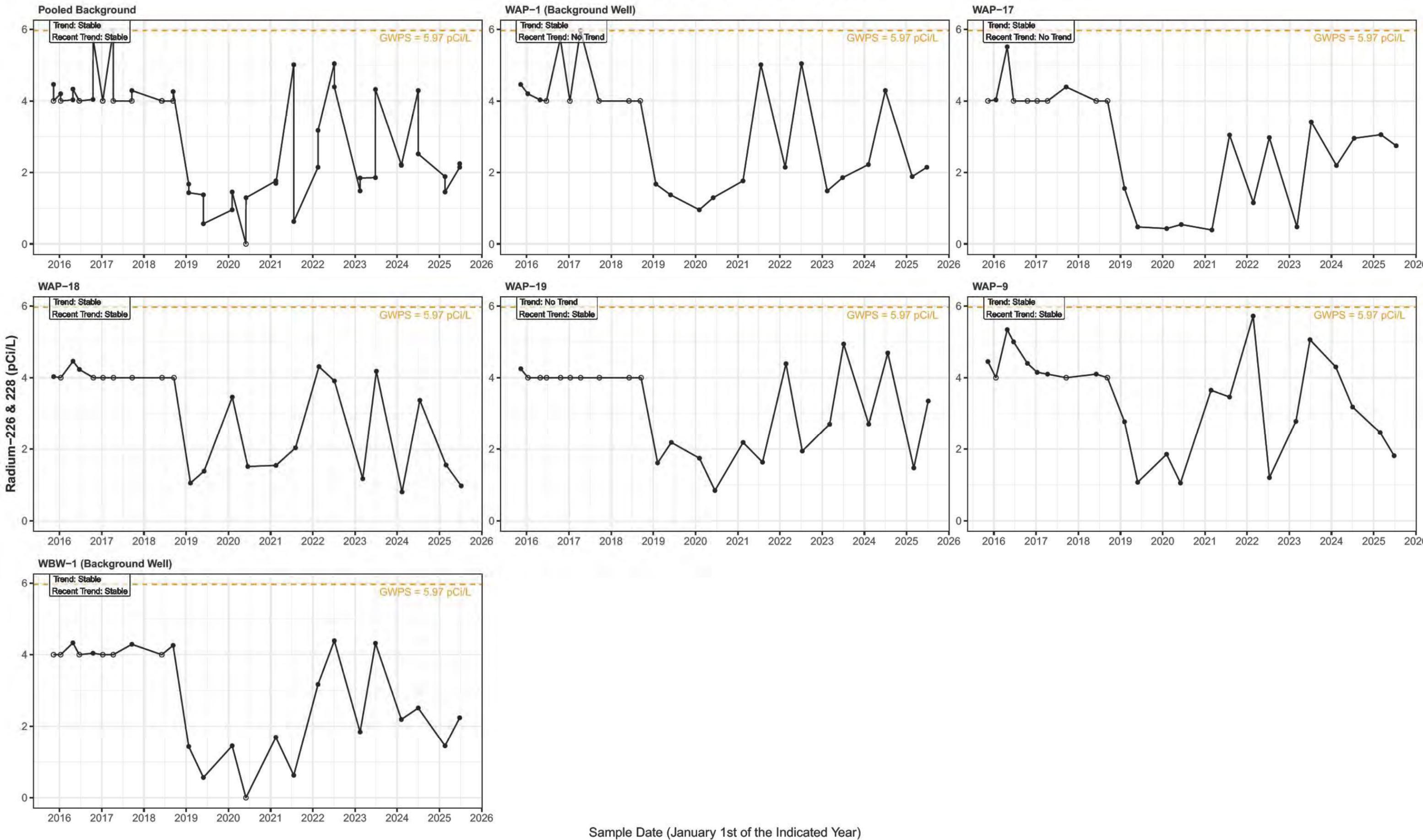
--- GWPS
 --- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

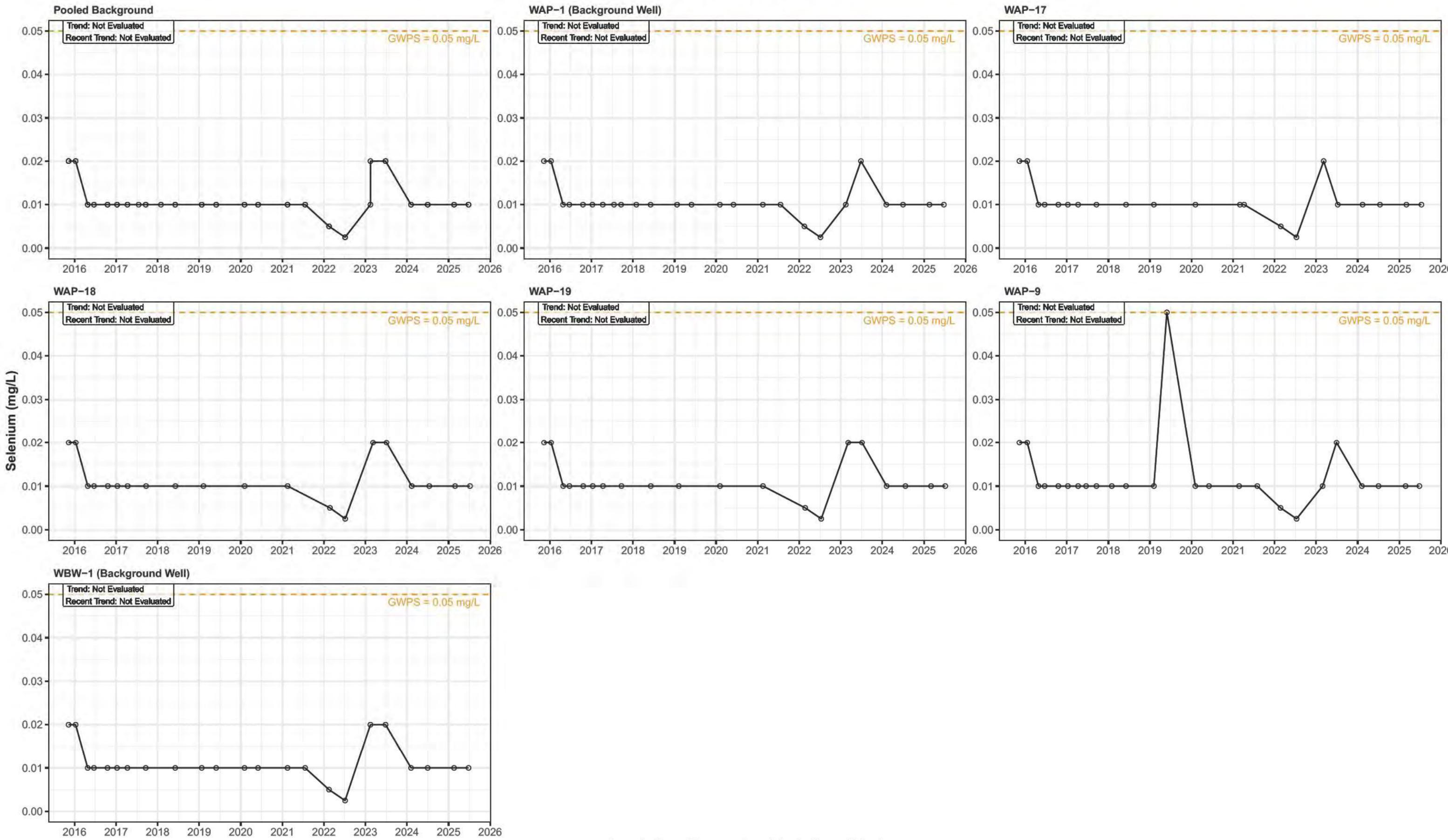
Trend Analysis for Radium-226 & 228



Detection Status: ● Detect ○ Non-Detect

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

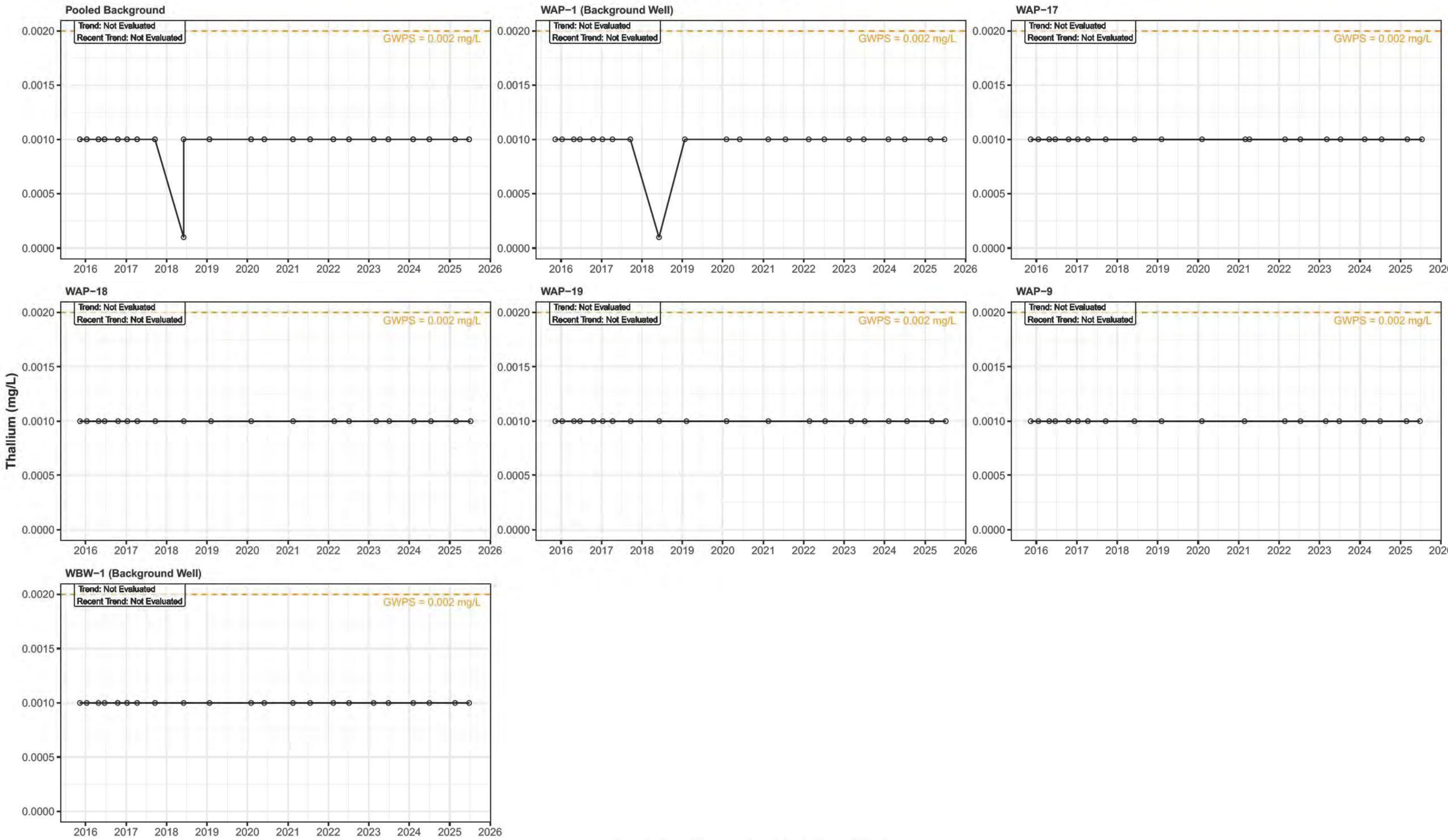
Trend Analysis for Selenium



Detection Status: ○ Non-Detect

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

Trend Analysis for Thallium



Detection Status: ○ Non-Detect

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



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864.214.8750

TECHNICAL MEMORANDUM

December 23, 2025
File No. 0132892-102

SUBJECT: Statistical Evaluation of the June and July 2025 Semiannual Corrective Action Groundwater Monitoring Data, Winyah Generating Station, Ash Pond B

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93, § 257.95, and § 257.98 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained from the June and July 2025 semiannual corrective action groundwater monitoring event for Winyah Generating Station (WGS) Ash Pond B. Data for this groundwater sampling event were validated on September 26, 2025, by Santee Cooper and provided to Haley & Aldrich, Inc. (Haley & Aldrich).

BACKGROUND

Coal combustion residual (CCR) and non-CCR wastewater inflows to WGS Ash Pond B ceased prior to the regulatory deadline of April 11, 2021. The unit is undergoing closure-by-removal as outlined in the *Remedy Selection Report*. During previous groundwater sampling events, assessment monitoring identified the presence of arsenic, lithium, and molybdenum in one or more downgradient wells at a statistically significant level (SSL) above the Groundwater Protection Standards (GWPS).

Recent analytical testing results were evaluated to ascertain if SSLs exist above GWPS for Appendix IV groundwater monitoring constituents. Using interwell evaluations, data from the semiannual sampling event for downgradient monitoring wells were compared to the GWPS established from background well data.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (40 CFR § 257.93(f)(1-4)) represents an SSL of Appendix IV parameters above the GWPS. The selected statistical method used for these evaluations is the tolerance limit (TL) as certified by Haley & Aldrich on October 14, 2017.

An interwell evaluation was used for statistical analysis, which compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data. The TL method was used to evaluate potential SSLs above GWPS. The GWPS for each of the Appendix IV constituents has been set equal to the highest value of the maximum contaminant level, regional screening level, or site background concentration. Compliance well data from the most recent groundwater sampling event were compared to the corresponding GWPS to determine if an SSL existed. Statistical analysis results are presented in Table 1.

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

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

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

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

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

TREND ANALYSIS

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

Of the 15 downgradient well/constituent datasets that were evaluated for recent trends, 20 percent were increasing and 80 percent were variable with no statistically significant trend. Increasing trends were identified for barium at WAP-21, lithium for WAP-10, and radium-226 & 228 for WAP-27.

It is important to note that increasing trends are not a part of the SSL identification process. Trend analysis will continue to be used to monitor and evaluate concentrations in the context of overall site conditions.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table 1). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. Consistent with previous results, arsenic has one SSL above the GWPS:

- Arsenic SSL at WAP-27.

As noted in the second 2022 semiannual statistical memorandum, monitoring well WAP-27, which is constructed with a deeper screened zone, was integrated by Santee Cooper as a temporary substitute for WAP-20 until the water table is restored to historical levels. Concentrations are expected to continue to decrease once closure is complete and equilibrium groundwater conditions are restored; however, until then, some variability in the data is expected. Groundwater trends will continue to be monitored during future sampling events.

Enclosures:

Table 1 – June and July 2025 Semiannual Corrective Action Monitoring Data
(WGS Ash Pond B)

Attachment A – Statistical Output, June and July 2025

https://haleyaldrich.sharepoint.com/sites/SanteeCooper2/Shared Documents/0132892.Santee Cooper CCR Consulting Service/0_Winyah Generating Station/Statistical Analysis/2025-10/Ash Pond B/2025-1223_WGS_Ash Pond B_AssessMonitStats_F.docx

TABLE

TABLE 1
JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND B)
 WINYAH GENERATING STATION
 ASH POND B

Overall Data Summary											Inter-well Analysis										
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>
CCR Appendix IV: Antimony, Total (mg/L)																					
WBW-1	0/22	100%	0.005 - 0.025	0.0059	0.005	0.005	NA	72%	0	1	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.025	NA	0.006	0.025	NA	NA
WAP-1	1/22	96%	0.002 - 0.025	0.0058	0.005	0.0053	0.0053	75%	0	1	Not Evaluated		6/25/2025	0.0053	Yes		NA			NA	
WAP-10	0/20	100%	0.002 - 0.025	0.0059	0.005	0.0060	NA	78%	0	1	Not Evaluated		6/26/2025	0.005	No		No			NA	No
WAP-21	0/20	100%	0.002 - 0.05	0.0081	0.005	0.026	NA	134%	0	2	Not Evaluated		7/8/2025	0.005	No		No			NA	No
WAP-27	1/9	89%	0.005 - 0.005	0.0051	0.005	0.005	0.0057	5%	0	0	Not Evaluated		7/7/2025	0.005	No		No			NA	No
CCR Appendix IV: Arsenic, Total (mg/L)																					
WBW-1	0/24	100%	0.003 - 0.005	0.0045	0.005	0.005	NA	20%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.0096	NA	0.01	0.01	NA	NA
WAP-1	7/26	73%	0.003 - 0.005	0.00542	0.005	0.00845	0.0096	27%	0	0	No Trend		6/25/2025	0.0057	Yes		NA			NA	
WAP-10	14/26	46%	0.003 - 0.005	0.0302	0.006	0.140	0.158	155%	10	0	No Trend		6/26/2025	0.158	Yes		Yes			0.005	No
WAP-21	4/24	83%	0.003 - 0.03	0.00586	0.005	0.006	0.0064	89%	0	1	No Trend		7/8/2025	0.006	Yes		No			NA	No
WAP-27	9/9	0%	NA	0.09630	0.093	0.12000	0.122	17%	9	0	No Trend		7/7/2025	0.109	Yes		Yes			0.0836	Yes
CCR Appendix IV: Barium, Total (mg/L)																					
WBW-1	24/24	0%	NA	0.018	0.015	0.042	0.0534	60%	0	0	Stable	Non-Parametric (Pooled Background Data)	6/25/2025	0.0222	Yes	0.094	NA	2	2	NA	NA
WAP-1	26/26	0%	NA	0.042	0.0418	0.081	0.094	62%	0	0	Stable		6/25/2025	0.0365	Yes		NA			NA	
WAP-10	26/26	0%	NA	0.273	0.270	0.328	0.396	15%	0	0	No Trend		6/26/2025	0.323	Yes		Yes			NA	No
WAP-21	24/24	0%	NA	0.054	0.046	0.105	0.15	54%	0	0	Increasing		7/8/2025	0.0477	Yes		No			NA	No
WAP-27	9/9	0%	NA	0.12	0.12	0.16	0.179	21%	0	0	No Trend		7/7/2025	0.179	Yes		Yes			NA	No
CCR Appendix IV: Beryllium, Total (mg/L)																					
WBW-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No	0.0005	NA	0.004	0.004	NA	NA
WAP-1	0/22	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/25/2025	0.0005	No		NA			NA	
WAP-10	0/20	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/26/2025	0.0005	No		No			NA	No
WAP-21	0/20	100%	0.0005 - 0.005	0.0007	0.0005	0.0007	NA	139%	0	1	Not Evaluated		7/8/2025	0.0005	No		No			NA	No
WAP-27	0/9	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		7/7/2025	0.0005	No		No			NA	No
CCR Appendix IV: Cadmium, Total (mg/L)																					
WBW-1	0/23	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No	0.0005	NA	0.005	0.005	NA	NA
WAP-1	0/25	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/25/2025	0.0005	No		NA			NA	
WAP-10	0/25	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		6/26/2025	0.0005	No		No			NA	No
WAP-21	0/20	100%	0.0005 - 0.005	0.0007	0.0005	0.0007	NA	139%	0	0	Not Evaluated		7/8/2025	0.0005	No		No			NA	No
WAP-27	0/9	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		7/7/2025	0.0005	No		No			NA	No
CCR Appendix IV: Chromium, Total (mg/L)																					
WBW-1	1/23	96%	0.005 - 0.005	0.005	0.005	0.005	0.005	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.005	NA	0.1	0.1	NA	NA
WAP-1	0/25	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA	
WAP-10	0/25	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		6/26/2025	0.005	No		No			NA	No
WAP-21	1/20	95%	0.005 - 0.05	0.008	0.005	0.031	0.0296	132%	0	0	Not Evaluated		7/8/2025	0.005	No		No			NA	No
WAP-27	0/9	100%	0.005 - 0.005	0.005	0.005	0.005	NA	0%	0	0	Not Evaluated		7/7/2025	0.005	No		No			NA	No

TABLE 1
JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND B)
 WINYAH GENERATING STATION
 ASH POND B

Overall Data Summary												Inter-well Analysis												
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>			
CCR Appendix IV: Cobalt, Total (mg/L)																								
WBW-1	8/24	67%	0.0005 - 0.0005	0.0011	0.0005	0.0030	0.00838	148%	1	0	Decreasing	Non-Parametric (Pooled Background Data)	6/25/2025	0.0005	No	0.00838	NA	0.006	0.00838	NA	NA			
WAP-1	11/24	54%	0.0005 - 0.0005	0.0007	0.0005	0.0015	0.0016	49%	0	0	Stable		6/25/2025	0.00094	Yes		NA			NA	NA	NA		
WAP-10	0/24	100%	0.0005 - 0.0005	0.0005	0.0005	0.0005	NA	0%	0	0	Not Evaluated		NA	6/26/2025	0.0005		No			No	NA	NA	No	
WAP-21	5/24	79%	0.0005 - 0.01	0.0013	0.0005	0.0046	0.00231	169%	0	1	No Trend		NA	7/8/2025	0.00095		Yes			No	NA	NA	NA	No
WAP-27	3/9	67%	0.0005 - 0.0005	0.0006	0.0005	0.0008	0.0008	20%	0	0	No Trend		NA	7/7/2025	0.0005		No			No	NA	NA	NA	No
CCR Appendix IV: Fluoride, Total (mg/L)																								
WBW-1	1/25	96%	0.1 - 0.1	0.100	0.100	0.100	0.1	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.1	No	0.14	NA	4	4	NA	NA			
WAP-1	2/25	92%	0.1 - 0.1	0.103	0.100	0.124	0.14	10%	0	0	Not Evaluated		6/25/2025	0.1	No		NA			NA				
WAP-10	2/25	92%	0.1 - 0.1	0.10	0.10	0.12	0.15	10%	0	0	Not Evaluated		NA	6/26/2025	0.1		No			No	NA	NA	No	
WAP-21	0/25	100%	0.1 - 0.1	0.100	0.100	0.100	NA	0%	0	0	Not Evaluated		NA	7/8/2025	0.1		No			No	NA	NA	NA	No
WAP-27	4/9	56%	0.1 - 0.1	0.133	0.100	0.270	0.35	62%	0	0	No Trend		NA	7/7/2025	0.1		No			No	NA	NA	NA	No
CCR Appendix IV: Lead, Total (mg/L)																								
WBW-1	0/23	100%	0.001 - 0.01	0.002	0.001	0.009	NA	122%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.001	No	0.01	NA	0.015	0.015	NA	NA			
WAP-1	4/25	84%	0.001 - 0.01	0.002	0.001	0.004	0.00456	103%	0	0	Not Evaluated		6/25/2025	0.001	No		NA			NA				
WAP-10	0/25	100%	0.001 - 0.01	0.002	0.001	0.003	NA	111%	0	0	Not Evaluated		NA	6/26/2025	0.001		No			No	NA	NA	No	
WAP-21	3/20	85%	0.001 - 0.01	0.002	0.001	0.010	0.011	123%	0	0	No Trend		NA	7/8/2025	0.001		No			No	NA	NA	NA	No
WAP-27	0/9	100%	0.001 - 0.0025	0.001	0.001	0.002	NA	43%	0	0	Not Evaluated		NA	7/7/2025	0.001		No			No	NA	NA	NA	No
CCR Appendix IV: Lithium, Total (mg/L)																								
WBW-1	1/24	96%	0.005 - 0.01	0.0088	0.0100	0.0100	0.0099	25%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.0116	NA	0.04	0.04	NA	NA			
WAP-1	1/24	96%	0.005 - 0.01	0.0086	0.0100	0.0100	0.0116	28%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA				
WAP-10	25/25	0%	NA	0.0369	0.0260	0.0696	0.116	61%	7	0	Increasing		Non-Parametric	6/26/2025	0.116		Yes			Yes	0.0230	No		
WAP-21	1/24	96%	0.005 - 0.01	0.0092	0.0100	0.0100	0.0209	36%	0	0	Not Evaluated		NA	7/8/2025	0.005		No			No	NA	NA	No	
WAP-27	7/9	22%	0.005 - 0.005	0.0157	0.0097	0.0405	0.0499	92%	1	0	No Trend		NA	7/7/2025	0.0499		Yes			Yes	0.005	No		
CCR Appendix IV: Mercury, Total (mg/L)																								
WBW-1	1/22	96%	0.0002 - 0.0002	0.0002	0.0002	0.0002	0.0002	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.0002	No	0.0002	NA	0.002	0.002	NA	NA			
WAP-1	0/22	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		6/25/2025	0.0002	No		NA			NA				
WAP-10	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		NA	6/26/2025	0.0002		No			No	NA	NA	No	
WAP-21	0/20	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		NA	7/8/2025	0.0002		No			No	NA	NA	NA	No
WAP-27	0/9	100%	0.0002 - 0.0002	0.0002	0.0002	0.0002	NA	0%	0	0	Not Evaluated		NA	7/7/2025	0.0002		No			No	NA	NA	NA	No
CCR Appendix IV: Molybdenum, Total (mg/L)																								
WBW-1	0/24	100%	0.005 - 0.05	0.010	0.010	0.010	NA	84%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.005	No	0.05	NA	0.1	0.1	NA	NA			
WAP-1	0/24	100%	0.005 - 0.01	0.009	0.010	0.010	NA	27%	0	0	Not Evaluated		6/25/2025	0.005	No		NA			NA				
WAP-10	0/24	100%	0.005 - 0.01	0.009	0.010	0.010	NA	27%	0	0	Not Evaluated		NA	6/26/2025	0.005		No			No	NA	NA	No	
WAP-21	0/24	100%	0.005 - 0.05	0.010	0.010	0.010	NA	84%	0	0	Not Evaluated		NA	7/8/2025	0.005		No			No	NA	NA	NA	No
WAP-27	0/9	100%	0.005 - 0.01	0.006	0.005	0.008	NA	30%	0	0	Not Evaluated		NA	7/7/2025	0.005		No			No	NA	NA	NA	No

TABLE 1
JUNE AND JULY 2025 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA (WGS ASH POND B)
 WINYAH GENERATING STATION
 ASH POND B

Overall Data Summary												Inter-well Analysis										
Location	Frequency of Detection	Percent of Non-Detect Results	Range of Reporting Limits	Mean	50th Percentile (Median)	95th Percentile	Maximum Detected Value	Coefficient of Variance	Number of Detected Results MCL/RSL Exceedances	Number of Non-Detect Results MCL/RSL Exceedances	Mann-Kendall Trend ^[a]	Assumed Data Distribution	Sample Date	June/July 2025 Concentration	Detect (Y/N)	Inter-well Upper Tolerance Limit (UTL) ^[b]	Statistically Significant Increase (SSI) <i>Sample results that exceed the Interwell UTL</i>	CCR MCL/RSL	Groundwater Protection Standard (GWPS) <i>Max level between the UTL and MCL/RSL</i>	Lower Confidence Limit (LCL) <i>Only calculated for GWPS Exceedances</i>	Statistically Significant Level (SSL) <i>Result > GWPS and LCL > GWPS</i>	
CCR Appendix IV: Radium 226 & Radium 228, Total (pCi/L)																						
WBW-1	17/24	29%	0 - 4	2.87	3.58	4.33	4.39	50%	0	0	Stable	Non-Parametric (Pooled Background Data)	6/25/2025	2.24	Yes	5.97	NA	5	5.97	NA	NA	
WAP-1	19/24	21%	4 - 4	3.23	4.00	5.63	5.97	48%	4	0	No Trend		6/25/2025	2.14	Yes		NA			NA	NA	NA
WAP-10	24/24	0%	NA	4.99	5.48	6.91	7.26	33%	14	0	No Trend		6/26/2025	7.26	Yes		Yes			4.29	No	
WAP-21	20/24	17%	4 - 4	2.94	2.50	5.03	5.67	55%	2	0	No Trend		7/8/2025	2.01	Yes		No			NA	No	
WAP-27	9/9	0%	NA	2.09	1.83	2.90	3.02	28%	0	0	Increasing		7/7/2025	2.64	Yes		No			NA	No	
CCR Appendix IV: Selenium, Total (mg/L)																						
WBW-1	0/23	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	40%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.01	No	0.02	NA	0.05	0.05	NA	NA	
WAP-1	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		6/25/2025	0.01	No		NA			NA	NA	
WAP-10	0/25	100%	0.0025 - 0.02	0.011	0.010	0.020	NA	37%	0	0	Not Evaluated		6/26/2025	0.01	No		No			NA	No	
WAP-21	0/20	100%	0.005 - 0.025	0.013	0.010	0.020	NA	42%	0	0	Not Evaluated		7/8/2025	0.01	No		No			NA	No	
WAP-27	0/9	100%	0.01 - 0.02	0.011	0.010	0.016	NA	30%	0	0	Not Evaluated		7/7/2025	0.01	No		No			NA	No	
CCR Appendix IV: Thallium, Total (mg/L)																						
WBW-1	0/22	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated	Non-Parametric (Pooled Background Data)	6/25/2025	0.001	No	0.001	NA	0.002	0.002	NA	NA	
WAP-1	0/22	100%	0.0001 - 0.001	0.001	0.001	0.001	NA	20%	0	0	Not Evaluated		6/25/2025	0.001	No		NA			NA	NA	
WAP-10	0/20	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		6/26/2025	0.001	No		No			NA	No	
WAP-21	0/20	100%	0.001 - 0.01	0.001	0.001	0.001	NA	139%	0	1	Not Evaluated		7/8/2025	0.001	No		No			NA	No	
WAP-27	0/9	100%	0.001 - 0.001	0.001	0.001	0.001	NA	0%	0	0	Not Evaluated		7/7/2025	0.001	No		No			NA	No	

Notes:
 [a] Mann-Kendall Trends calculated from the eight most recent samples at a 95% confidence limits and trend classifications are determined based on guidance from the Monitoring and Remediation Optimization System (Aziz, 2003). Recent trend date ranges vary by well/constituent and are included in Attachment A, Table A-4. 'Probably increasing' and 'probably decreasing' trends indicate that while no statistically significant trend was identified at the indicated confidence level, data suggest emerging trends at a lower confidence level. Data sets that do not meet test requirements, such as having a detection rate of at least 25%, are labeled as 'Not Evaluated'.
 [b] Interwell Tolerance Limits are calculated from data collected from pooled upgradient well data (WBW-1 and WAP-1) through July 2025. No statistical outlier data points were removed from background datasets.
 MCL/RSL: Maximum contaminant level/Regional screening level
 mg/L: milligrams per liter, pCi/L: picocuries per liter
 NA: not applicable

ATTACHMENT A
Statistical Output, June and July 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
Pooled Background	Antimony	mg/L	44	43	98	0.025	0.002	0.00585	0.005	0.0043	72.7	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-1 (Background)	Antimony	mg/L	22	21	95	0.025	0.002	0.00579	0.005	0.0043	75	0.002 - 0.025	2015-11-10 to 2025-06-25
WAP-10	Antimony	mg/L	20	20	100	0.025	0.002	0.00585	0.005	0.0046	77.9	0.002 - 0.025	2015-11-12 to 2025-06-26
WAP-21	Antimony	mg/L	20	20	100	0.05	0.002	0.0081	0.005	0.011	134	0.002 - 0.05	2015-11-11 to 2025-07-08
WAP-27	Antimony	mg/L	9	8	89	0.0057	0.005	0.00508	0.005	0.00023	4.6	0.005 - 0.005	2023-03-02 to 2025-07-07
WBW-1 (Background)	Antimony	mg/L	22	22	100	0.025	0.005	0.00591	0.005	0.0043	72.2	0.005 - 0.025	2015-11-10 to 2025-06-25
Pooled Background	Arsenic	mg/L	50	43	86	0.0096	0.003	0.00498	0.005	0.0013	26	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Arsenic	mg/L	26	19	73	0.0096	0.003	0.00542	0.005	0.0015	27	0.003 - 0.005	2015-11-10 to 2025-06-25
WAP-10	Arsenic	mg/L	26	12	46	0.158	0.003	0.0302	0.0057	0.047	155	0.003 - 0.005	2015-11-12 to 2025-06-26
WAP-21	Arsenic	mg/L	24	20	83	0.03	0.003	0.00586	0.005	0.0052	89.1	0.003 - 0.03	2015-11-11 to 2025-07-08
WAP-27	Arsenic	mg/L	9	0	0	0.122	0.0756	0.0963	0.0932	0.017	17.2	NA	2023-03-02 to 2025-07-07
WBW-1 (Background)	Arsenic	mg/L	24	24	100	0.005	0.003	0.0045	0.005	0.00088	19.7	0.003 - 0.005	2015-11-10 to 2025-06-25
Pooled Background	Barium	mg/L	50	0	0	0.094	0.0058	0.0306	0.0222	0.023	76.6	NA	2015-11-10 to 2025-06-25
WAP-1 (Background)	Barium	mg/L	26	0	0	0.094	0.0058	0.042	0.0418	0.026	62.3	NA	2015-11-10 to 2025-06-25
WAP-10	Barium	mg/L	26	0	0	0.396	0.171	0.273	0.27	0.041	15.2	NA	2015-11-12 to 2025-06-26
WAP-21	Barium	mg/L	24	0	0	0.15	0.0204	0.054	0.0462	0.029	53.6	NA	2015-11-11 to 2025-07-08
WAP-27	Barium	mg/L	9	0	0	0.179	0.0895	0.119	0.115	0.025	21.2	NA	2023-03-02 to 2025-07-07
WBW-1 (Background)	Barium	mg/L	24	0	0	0.0534	0.0072	0.0183	0.0151	0.011	60.3	NA	2015-11-10 to 2025-06-25
Pooled Background	Beryllium	mg/L	44	44	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Beryllium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-10	Beryllium	mg/L	20	20	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-12 to 2025-06-26
WAP-21	Beryllium	mg/L	20	20	100	0.005	0.0005	0.000725	0.0005	0.001	139	0.0005 - 0.005	2015-11-11 to 2025-07-08
WAP-27	Beryllium	mg/L	9	9	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2023-03-02 to 2025-07-07
WBW-1 (Background)	Beryllium	mg/L	22	22	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Cadmium	mg/L	48	48	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Cadmium	mg/L	25	25	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-10	Cadmium	mg/L	25	25	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-12 to 2025-06-26
WAP-21	Cadmium	mg/L	20	20	100	0.005	0.0005	0.000725	0.0005	0.001	139	0.0005 - 0.005	2015-11-11 to 2025-07-08
WAP-27	Cadmium	mg/L	9	9	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2023-03-02 to 2025-07-07
WBW-1 (Background)	Cadmium	mg/L	23	23	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Chromium	mg/L	48	47	98	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Chromium	mg/L	25	25	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
WAP-10	Chromium	mg/L	25	25	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-12 to 2025-06-26
WAP-21	Chromium	mg/L	20	19	95	0.05	0.005	0.00848	0.005	0.011	132	0.005 - 0.05	2015-11-11 to 2025-07-08
WAP-27	Chromium	mg/L	9	9	100	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2023-03-02 to 2025-07-07
WBW-1 (Background)	Chromium	mg/L	23	22	96	0.005	0.005	0.005	0.005	0	0	0.005 - 0.005	2015-11-10 to 2025-06-25
Pooled Background	Cobalt	mg/L	48	29	60	0.00838	0.0005	0.000933	0.0005	0.0012	132	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-1 (Background)	Cobalt	mg/L	24	13	54	0.0016	0.0005	0.000724	0.0005	0.00036	49.3	0.0005 - 0.0005	2015-11-10 to 2025-06-25
WAP-10	Cobalt	mg/L	24	24	100	0.0005	0.0005	0.0005	0.0005	0	0	0.0005 - 0.0005	2015-11-12 to 2025-06-26
WAP-21	Cobalt	mg/L	24	19	79	0.01	0.0005	0.00125	0.0005	0.0021	169	0.0005 - 0.01	2015-11-11 to 2025-07-08
WAP-27	Cobalt	mg/L	9	6	67	0.0008	0.0005	0.000568	0.0005	0.00011	19.5	0.0005 - 0.0005	2023-03-02 to 2025-07-07
WBW-1 (Background)	Cobalt	mg/L	24	16	67	0.00838	0.0005	0.00114	0.0005	0.0017	148	0.0005 - 0.0005	2015-11-10 to 2025-06-25
Pooled Background	Fluoride	mg/L	50	47	94	0.14	0.1	0.101	0.1	0.007	6.9	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-1 (Background)	Fluoride	mg/L	25	23	92	0.14	0.1	0.103	0.1	0.0098	9.53	0.1 - 0.1	2015-11-10 to 2025-06-25
WAP-10	Fluoride	mg/L	25	23	92	0.15	0.1	0.103	0.1	0.011	10.3	0.1 - 0.1	2015-11-12 to 2025-06-26
WAP-21	Fluoride	mg/L	25	25	100	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-11 to 2025-07-08
WAP-27	Fluoride	mg/L	9	5	56	0.35	0.1	0.133	0.1	0.083	62.1	0.1 - 0.1	2023-03-02 to 2025-07-07
WBW-1 (Background)	Fluoride	mg/L	25	24	96	0.1	0.1	0.1	0.1	0	0	0.1 - 0.1	2015-11-10 to 2025-06-25
Pooled Background	Lead	mg/L	48	44	92	0.01	0.001	0.00198	0.001	0.0022	113	0.001 - 0.01	2015-11-10 to 2025-06-25
WAP-1 (Background)	Lead	mg/L	25	21	84	0.01	0.001	0.00185	0.001	0.0019	103	0.001 - 0.01	2015-11-10 to 2025-06-25
WAP-10	Lead	mg/L	25	25	100	0.01	0.001	0.00166	0.001	0.0018	111	0.001 - 0.01	2015-11-12 to 2025-06-26
WAP-21	Lead	mg/L	20	17	85	0.011	0.001	0.00233	0.001	0.0029	123	0.001 - 0.01	2015-11-11 to 2025-07-08
WAP-27	Lead	mg/L	9	9	100	0.0025	0.001	0.00117	0.001	0.0005	42.9	0.001 - 0.0025	2023-03-02 to 2025-07-07
WBW-1 (Background)	Lead	mg/L	23	23	100	0.01	0.001	0.00211	0.001	0.0026	122	0.001 - 0.01	2015-11-10 to 2025-06-25
Pooled Background	Lithium	mg/L	48	46	96	0.0116	0.005	0.00868	0.01	0.0023	26.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-1 (Background)	Lithium	mg/L	24	23	96	0.0116	0.005	0.00861	0.01	0.0024	27.7	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-10	Lithium	mg/L	25	0	0	0.116	0.019	0.0369	0.026	0.022	60.5	NA	2015-11-12 to 2025-06-26
WAP-21	Lithium	mg/L	24	23	96	0.0209	0.005	0.0092	0.01	0.0033	36.1	0.005 - 0.01	2015-11-11 to 2025-07-08
WAP-27	Lithium	mg/L	9	2	22	0.0499	0.005	0.0157	0.0097	0.014	91.8	0.005 - 0.005	2023-03-02 to 2025-07-07
WBW-1 (Background)	Lithium	mg/L	24	23	96	0.01	0.005	0.00875	0.01	0.0022	25.3	0.005 - 0.01	2015-11-10 to 2025-06-25
Pooled Background	Mercury	mg/L	44	43	98	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-1 (Background)	Mercury	mg/L	22	22	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
WAP-10	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-12 to 2025-06-26

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

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	coefficient of variation (%)	reporting limit range	date range
WAP-21	Mercury	mg/L	20	20	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-11 to 2025-07-08
WAP-27	Mercury	mg/L	9	9	100	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2023-03-02 to 2025-07-07
WBW-1 (Background)	Mercury	mg/L	22	21	95	0.0002	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2015-11-10 to 2025-06-25
Pooled Background	Molybdenum	mg/L	48	48	100	0.05	0.005	0.00948	0.01	0.0064	67.3	0.005 - 0.05	2015-11-10 to 2025-06-25
WAP-1 (Background)	Molybdenum	mg/L	24	24	100	0.01	0.005	0.00854	0.01	0.0023	27.2	0.005 - 0.01	2015-11-10 to 2025-06-25
WAP-10	Molybdenum	mg/L	24	24	100	0.01	0.005	0.00854	0.01	0.0023	27.2	0.005 - 0.01	2015-11-12 to 2025-06-26
WAP-21	Molybdenum	mg/L	24	24	100	0.05	0.005	0.0104	0.01	0.0087	83.6	0.005 - 0.05	2015-11-11 to 2025-07-08
WAP-27	Molybdenum	mg/L	9	9	100	0.01	0.005	0.00556	0.005	0.0017	30	0.005 - 0.01	2023-03-02 to 2025-07-07
WBW-1 (Background)	Molybdenum	mg/L	24	24	100	0.05	0.005	0.0104	0.01	0.0087	83.6	0.005 - 0.05	2015-11-10 to 2025-06-25
Pooled Background	Radium-226 & 228	pCi/L	48	12	25	5.97	0	3.05	4	1.5	48.8	0 - 4	2015-11-10 to 2025-06-25
WAP-1 (Background)	Radium-226 & 228	pCi/L	24	5	21	5.97	0.952	3.23	4	1.5	47.7	4 - 4	2015-11-10 to 2025-06-25
WAP-10	Radium-226 & 228	pCi/L	24	0	0	7.26	1.55	4.99	5.48	1.6	33	NA	2015-11-12 to 2025-06-26
WAP-21	Radium-226 & 228	pCi/L	24	4	17	5.67	0.845	2.94	2.5	1.6	55.1	4 - 4	2015-11-11 to 2025-07-08
WAP-27	Radium-226 & 228	pCi/L	9	0	0	3.02	1.41	2.09	1.83	0.58	27.9	NA	2023-03-02 to 2025-07-07
WBW-1 (Background)	Radium-226 & 228	pCi/L	24	7	29	4.39	0	2.87	2.58	1.4	50.2	0 - 4	2015-11-10 to 2025-06-25
Pooled Background	Selenium	mg/L	48	48	100	0.02	0.0025	0.0109	0.01	0.0042	38.2	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-1 (Background)	Selenium	mg/L	25	25	100	0.02	0.0025	0.0107	0.01	0.0039	36.6	0.0025 - 0.02	2015-11-10 to 2025-06-25
WAP-10	Selenium	mg/L	25	25	100	0.02	0.0025	0.0107	0.01	0.0039	36.6	0.0025 - 0.02	2015-11-12 to 2025-06-26
WAP-21	Selenium	mg/L	20	20	100	0.025	0.005	0.0125	0.01	0.0053	42.1	0.005 - 0.025	2015-11-11 to 2025-07-08
WAP-27	Selenium	mg/L	9	9	100	0.02	0.01	0.0111	0.01	0.0033	30	0.01 - 0.02	2023-03-02 to 2025-07-07
WBW-1 (Background)	Selenium	mg/L	23	23	100	0.02	0.0025	0.0112	0.01	0.0045	40.3	0.0025 - 0.02	2015-11-10 to 2025-06-25
Pooled Background	Thallium	mg/L	44	44	100	0.001	0.0001	0.00098	0.001	0.00014	13.9	0.0001 - 0.001	2015-11-10 to 2025-06-25
WAP-1 (Background)	Thallium	mg/L	22	22	100	0.001	0.0001	0.000959	0.001	0.00019	20	0.0001 - 0.001	2015-11-10 to 2025-06-25
WAP-10	Thallium	mg/L	20	20	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-12 to 2025-06-26
WAP-21	Thallium	mg/L	20	20	100	0.01	0.001	0.00145	0.001	0.002	139	0.001 - 0.01	2015-11-11 to 2025-07-08
WAP-27	Thallium	mg/L	9	9	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2023-03-02 to 2025-07-07
WBW-1 (Background)	Thallium	mg/L	22	22	100	0.001	0.001	0.001	0.001	0	0	0.001 - 0.001	2015-11-10 to 2025-06-25

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

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

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)

Location	Constituent	W statistic	p-value	Sample Count (n)	Non-Detect Count (n)	Data Normality (significance level = 0.05)
Pooled Background	Antimony	0.291	2.8e-13	44	43	Not normal
WAP-1 (Background)	Antimony	0.366	9e-09	22	21	Not normal
WAP-10	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-21	Antimony	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-27	Antimony	0.390	3.2e-07	9	8	Not normal
WBW-1 (Background)	Antimony	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Arsenic	0.568	6.7e-11	50	43	Not normal
WAP-1 (Background)	Arsenic	0.682	3.1e-06	26	19	Not normal
WAP-10	Arsenic	0.625	5.9e-07	26	12	Not normal
WAP-21	Arsenic	0.554	2e-07	24	20	Not normal
WAP-27	Arsenic	0.940	0.58	9	0	Normal
WBW-1 (Background)	Arsenic	NA	NA	24	24	Not Evaluated - All Non-Detect Results
Pooled Background	Barium	0.859	2.7e-05	50	0	Not normal
WAP-1 (Background)	Barium	0.944	0.17	26	0	Normal
WAP-10	Barium	0.933	0.091	26	0	Normal
WAP-21	Barium	0.831	0.00098	24	0	Not normal
WAP-27	Barium	0.816	0.031	9	0	Not normal
WBW-1 (Background)	Barium	0.762	7.5e-05	24	0	Not normal
Pooled Background	Beryllium	NA	NA	44	44	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Beryllium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-10	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-21	Beryllium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-27	Beryllium	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Beryllium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
Pooled Background	Cadmium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-10	Cadmium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-21	Cadmium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-27	Cadmium	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Cadmium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Chromium	0.129	2.4e-15	48	47	Not normal
WAP-1 (Background)	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-10	Chromium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-21	Chromium	0.360	2.2e-08	20	19	Not normal
WAP-27	Chromium	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Chromium	0.215	4e-10	23	22	Not normal
Pooled Background	Cobalt	0.446	3.3e-12	48	29	Not normal
WAP-1 (Background)	Cobalt	0.757	6.2e-05	24	13	Not normal
WAP-10	Cobalt	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-21	Cobalt	0.537	1.3e-07	24	19	Not normal
WAP-27	Cobalt	0.680	0.00083	9	6	Not normal
WBW-1 (Background)	Cobalt	0.478	3.5e-08	24	16	Not normal
Pooled Background	Fluoride	0.259	1.8e-14	50	47	Not normal
WAP-1 (Background)	Fluoride	0.313	8.3e-10	25	23	Not normal
WAP-10	Fluoride	0.316	8.8e-10	25	23	Not normal
WAP-21	Fluoride	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-27	Fluoride	0.649	0.00036	9	5	Not normal
WBW-1 (Background)	Fluoride	0.203	1.2e-10	25	24	Not normal
Pooled Background	Lead	0.508	1.9e-11	48	44	Not normal
WAP-1 (Background)	Lead	0.550	1.2e-07	25	21	Not normal
WAP-10	Lead	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-21	Lead	0.478	2e-07	20	17	Not normal
WAP-27	Lead	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Lead	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Lithium	0.633	1e-09	48	46	Not normal
WAP-1 (Background)	Lithium	0.624	1.2e-06	24	23	Not normal
WAP-10	Lithium	0.732	2e-05	25	0	Not normal
WAP-21	Lithium	0.418	9.9e-09	24	23	Not normal
WAP-27	Lithium	0.784	0.013	9	2	Not normal
WBW-1 (Background)	Lithium	0.649	2.3e-06	24	23	Not normal
Pooled Background	Mercury	0.137	1.2e-14	44	43	Not normal
WAP-1 (Background)	Mercury	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-10	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-21	Mercury	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-27	Mercury	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Mercury	0.221	7.4e-10	22	21	Not normal
Pooled Background	Molybdenum	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-10	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-21	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
WAP-27	Molybdenum	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Molybdenum	NA	NA	24	24	Not Evaluated - All Non-Detect Results
Pooled Background	Radium-226 & 228	0.889	0.00028	48	12	Not normal
WAP-1 (Background)	Radium-226 & 228	0.828	0.00089	24	5	Not normal
WAP-10	Radium-226 & 228	0.932	0.11	24	0	Normal
WAP-21	Radium-226 & 228	0.839	0.0014	24	4	Not normal
WAP-27	Radium-226 & 228	0.912	0.33	9	0	Normal
WBW-1 (Background)	Radium-226 & 228	0.896	0.018	24	7	Not normal
Pooled Background	Selenium	NA	NA	48	48	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-10	Selenium	NA	NA	25	25	Not Evaluated - All Non-Detect Results
WAP-21	Selenium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-27	Selenium	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Selenium	NA	NA	23	23	Not Evaluated - All Non-Detect Results
Pooled Background	Thallium	NA	NA	44	44	Not Evaluated - All Non-Detect Results
WAP-1 (Background)	Thallium	NA	NA	22	22	Not Evaluated - All Non-Detect Results
WAP-10	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-21	Thallium	NA	NA	20	20	Not Evaluated - All Non-Detect Results
WAP-27	Thallium	NA	NA	9	9	Not Evaluated - All Non-Detect Results
WBW-1 (Background)	Thallium	NA	NA	22	22	Not Evaluated - All Non-Detect Results

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

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

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by reporting limit)										
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
Pooled Background	Antimony	44	43	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Antimony	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-10	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Antimony	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Antimony	9	8	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WBW-1	Antimony	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Arsenic	50	43	Rosner	3.574, 3.23, 3.498	NA	3.128, 3.12, 3.112	3	NA	No
WAP-1	Arsenic	26	19	Rosner	2.86, 2.68, 3.1	NA	2.841, 2.822, 2.802	3	NA	No
WAP-10	Arsenic	26	12	Rosner	2.734, 2.902, 3.715	NA	2.841, 2.822, 2.802	3	NA	No
WAP-21	Arsenic	24	20	Dixon	0.8889	0	NA	NA	Yes	No
WAP-27	Arsenic	9	0	Dixon	0.131	0.7184	NA	NA	No	No
WBW-1	Arsenic	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Barium	50	0	Rosner	2.707, 2.373, 2.555	NA	3.128, 3.12, 3.112	0	NA	No
WAP-1	Barium	26	0	Rosner	1.99, 1.686, 1.836	NA	2.841, 2.822, 2.802	0	NA	No
WAP-10	Barium	26	0	Rosner	2.969, 2.89, 2.269	NA	2.841, 2.822, 2.802	2	NA	No
WAP-21	Barium	24	0	Dixon	0.5822	0	NA	NA	Yes	No
WAP-27	Barium	9	0	Dixon	0.6818	0.008853	NA	NA	Yes	No
WBW-1	Barium	24	0	Dixon	0.4943	0.02127	NA	NA	Yes	No
Pooled Background	Beryllium	44	44	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Beryllium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Beryllium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Beryllium	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Beryllium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Cadmium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Cadmium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Cadmium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Cadmium	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Cadmium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Chromium	48	47	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Chromium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Chromium	20	19	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-27	Chromium	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Chromium	23	22	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Cobalt	48	29	Rosner	6.061, 4.258, 3.618	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Cobalt	24	13	Dixon	0.1727	0.805	NA	NA	No	No
WAP-10	Cobalt	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Cobalt	24	19	Dixon	0.8095	0	NA	NA	Yes	No
WAP-27	Cobalt	9	6	Dixon	0.4	0.2813	NA	NA	No	No
WBW-1	Cobalt	24	16	Dixon	0.7716	0	NA	NA	Yes	No
Pooled Background	Fluoride	50	47	Rosner	5.513, 6.857, NA	NA	3.128, 3.12, 3.112	2	NA	No
WAP-1	Fluoride	25	23	Dixon	1	0	NA	NA	Yes	No
WAP-10	Fluoride	25	23	Dixon	1	0	NA	NA	Yes	No
WAP-21	Fluoride	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Fluoride	9	5	Dixon	0.8	0	NA	NA	Yes	No
WBW-1	Fluoride	25	24	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Lead	48	44	Rosner	3.603, 4.296, 5.652	NA	3.112, 3.103, 3.094	3	NA	No
WAP-1	Lead	25	21	Dixon	0.8333	0	NA	NA	Yes	No
WAP-10	Lead	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Lead	20	17	Dixon	0.85	0	NA	NA	Yes	No
WAP-27	Lead	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Lead	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Lithium	48	46	Rosner	1.615, 1.68, 1.754	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-10	Lithium	25	0	Dixon	0.5301	0.00478	NA	NA	Yes	No
WAP-21	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-27	Lithium	9	2	Dixon	0.5256	0.08591	NA	NA	No	No
WBW-1	Lithium	24	23	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Mercury	44	43	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
WAP-1	Mercury	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Mercury	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Mercury	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Mercury	22	21	Dixon	Only 1 detected result.	NA	NA	NA	NA	No
Pooled Background	Molybdenum	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Molybdenum	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Molybdenum	24	24	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Radium-226 & 228	48	12	Rosner	2.049, 1.994, 1.944	NA	3.112, 3.103, 3.094	0	NA	No
WAP-1	Radium-226 & 228	24	5	Dixon	0.2022	0.9921	NA	NA	No	No
WAP-10	Radium-226 & 228	24	0	Dixon	0.2796	0.5407	NA	NA	No	No
WAP-21	Radium-226 & 228	24	4	Dixon	0.1484	0.642	NA	NA	No	No
WAP-27	Radium-226 & 228	9	0	Dixon	0.1923	0.985	NA	NA	No	No
WBW-1	Radium-226 & 228	24	7	Dixon	0.1449	0.6191	NA	NA	No	No
Pooled Background	Selenium	48	48	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Selenium	25	25	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Selenium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Selenium	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Selenium	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	No
Pooled Background	Thallium	44	44	Rosner	All results are non-detect	NA	NA	NA	NA	No
WAP-1	Thallium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-10	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-21	Thallium	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	No
WAP-27	Thallium	9	9	Dixon	All results are non-detect	NA	NA	NA	NA	No
WBW-1	Thallium	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	No

Table A-4. Results of Mann Kendall Test

		Secular Trend Evaluation for All Data Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points) Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)									
Mann Kendall Trends		Trends, All Data		Trends, Recent Data		n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
Pooled Background	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	44	1	0.722	NA	NA	NA	NA	NA	8	1	2023-02-14 to 2025-06-25	0.347	NA	NA	NA	NA	NA
WAP-1 (Background)	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.739	NA	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.446	NA	NA	NA	NA	NA
WAP-10	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.779	NA	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0.229	NA	NA	NA	NA	NA
WAP-21	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.34	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	1.57	NA	NA	NA	NA	NA
WAP-27	Antimony	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	9	1	0.374	NA	NA	NA	NA	NA	8	1	2023-03-02 to 2025-07-07	0.39	NA	NA	NA	NA	NA
WBW-1 (Background)	Antimony	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.722	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
Pooled Background	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	Stable	50	7	0.613	NA	NA	NA	NA	NA	8	3	2023-02-14 to 2025-06-25	0.626	-0.178	0.667	33.3	-4	
WAP-1 (Background)	Arsenic	Increasing	No Trend	26	7	0.633	0.599	0.000125	100	148	148	8	6	2020-02-03 to 2025-06-25	0.441	0.0364	1	0	1	
WAP-10	Arsenic	No Trend	No Trend	26	14	1.63	-0.22	0.141	85.9	-65	-65	8	4	2020-02-04 to 2025-06-26	1.7	0.189	0.61	39	5	
WAP-21	Arsenic	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	24	4	0.833	NA	NA	NA	NA	NA	8	4	2020-02-04 to 2025-07-08	0.788	0.255	0.454	54.6	7	
WAP-27	Arsenic	No Trend	No Trend	9	9	0.172	0.278	0.348	65.2	10	10	8	8	2023-03-02 to 2025-07-07	0.179	0.286	0.386	61.4	8	
WBW-1 (Background)	Arsenic	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.197	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.267	NA	NA	NA	NA	NA
Pooled Background	Barium	Increasing	Stable	50	50	0.766	0.284	0.0038	99.6	347	347	8	8	2023-02-14 to 2025-06-25	0.667	-0.357	0.266	73.4	-10	
WAP-1 (Background)	Barium	Increasing	Stable	26	26	0.623	0.419	0.00292	99.7	136	136	8	8	2020-02-03 to 2025-06-25	0.308	-0.4	0.212	78.8	-11	
WAP-10	Barium	Stable	No Trend	26	26	0.152	-0.0433	0.774	22.6	-14	-14	8	8	2020-02-04 to 2025-06-26	0.193	0.286	0.386	61.4	8	
WAP-21	Barium	Decreasing	Increasing	24	24	0.536	-0.442	0.00269	99.7	-122	-122	8	8	2020-02-04 to 2025-07-08	0.367	0.643	0.0354	96.5	18	
WAP-27	Barium	No Trend	No Trend	9	9	0.212	0.111	0.754	24.6	4	4	8	8	2023-03-02 to 2025-07-07	0.227	0.286	0.386	61.4	8	
WBW-1 (Background)	Barium	No Trend	Stable	24	24	0.603	0.186	0.214	78.6	51	51	8	8	2020-02-03 to 2025-06-25	0.498	-0.429	0.174	82.6	-12	
Pooled Background	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	44	0	0	NA	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-10	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0	NA	NA	NA	NA	NA
WAP-21	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.39	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	1.5	NA	NA	NA	NA	NA
WAP-27	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0	NA	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Beryllium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
Pooled Background	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0	NA	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-10	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0	NA	NA	NA	NA	NA
WAP-21	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.39	NA	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	1.5	NA	NA	NA	NA	NA
WAP-27	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0	NA	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA	NA
WBW-1 (Background)	Cadmium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
Pooled Background	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	48	1	0.141	NA	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-1 (Background)	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA	NA
WAP-10	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0	NA	NA	NA	NA	NA

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

		Secular Trend Evaluation for All Data									Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)							
		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)							
		Mann Kendall Trends																
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-21	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	20	1	1.54	NA	NA	NA	NA	8	1	2018-06-06 to 2025-07-08	1.33	NA	NA	NA	NA
WAP-27	Chromium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA
WBW-1 (Background)	Chromium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	23	1	0.2	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Cobalt	Increasing	Stable	48	19	1.65	0.496	0.0000644	100	448	8	7	2023-02-14 to 2025-06-25	0.327	-0.357	0.266	73.4	-10
WAP-1 (Background)	Cobalt	Increasing	Stable	24	11	0.773	0.548	0.000565	99.9	128	8	8	2020-02-03 to 2025-06-25	0.339	-0.214	0.536	46.4	-6
WAP-10	Cobalt	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0	NA	NA	NA	NA
WAP-21	Cobalt	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	24	5	1.48	NA	NA	NA	NA	8	4	2020-02-04 to 2025-07-08	0.849	0.113	0.799	20.1	3
WAP-27	Cobalt	No Trend	No Trend	9	3	0.575	0.0364	1	0	1	8	2	2023-03-02 to 2025-07-07	0.615	0.262	0.511	48.9	5
WBW-1 (Background)	Cobalt	Decreasing	Decreasing	24	8	1.81	0.443	0.00684	99.3	92	8	7	2020-02-03 to 2025-06-25	1.24	-0.857	0.00443	99.6	-24
Pooled Background	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	50	3	0.333	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	2	0.415	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-10	Fluoride	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	2	0.421	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0	NA	NA	NA	NA
WAP-21	Fluoride	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0	NA	NA	NA	NA	8	0	2020-02-04 to 2025-07-08	0	NA	NA	NA	NA
WAP-27	Fluoride	No Trend	No Trend	9	4	0.93	0.196	0.565	43.5	6	8	4	2023-03-02 to 2025-07-07	0.911	0.0806	0.894	10.6	2
WBW-1 (Background)	Fluoride	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	25	1	0.192	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
Pooled Background	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	48	4	1.12	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Lead	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - No detected results.	25	4	1.06	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.497	NA	NA	NA	NA
WAP-10	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	1.11	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0.497	NA	NA	NA	NA
WAP-21	Lead	Not Evaluated - Majority of data (>75%) non-detect.	No Trend	20	3	1.61	NA	NA	NA	NA	8	3	2018-06-06 to 2025-07-08	1.24	-0.445	0.167	83.3	-12
WAP-27	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0.429	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA
WBW-1 (Background)	Lead	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	1.22	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	1.13	NA	NA	NA	NA
Pooled Background	Lithium	Not Evaluated - Majority of data (>75%) non-detect.	Not Evaluated - Only one detected result.	48	2	0.378	NA	NA	NA	NA	8	1	2023-02-14 to 2025-06-25	0.764	NA	NA	NA	NA
WAP-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	24	1	0.416	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
WAP-10	Lithium	Increasing	Increasing	25	25	0.605	0.373	0.0101	99	111	8	8	2020-06-10 to 2025-06-26	0.454	0.643	0.0354	96.5	18
WAP-21	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.705	NA	NA	NA	NA	8	1	2020-02-04 to 2025-07-08	1.26	NA	NA	NA	NA
WAP-27	Lithium	Increasing	No Trend	9	7	0.984	0.592	0.036	96.4	21	8	7	2023-03-02 to 2025-07-07	0.903	0.5	0.108	89.2	14
WBW-1 (Background)	Lithium	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	24	1	0.345	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.706	NA	NA	NA	NA
Pooled Background	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - No detected results.	44	1	0.147	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-10	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0	NA	NA	NA	NA
WAP-21	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0	NA	NA	NA	NA
WAP-27	Mercury	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA
WBW-1 (Background)	Mercury	Not Evaluated - Only one detected result.	Not Evaluated - Only one detected result.	22	1	0.204	NA	NA	NA	NA	8	1	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA
Pooled Background	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.673	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.272	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.314	NA	NA	NA	NA

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

		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)							
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	n	n, detected results	recent data date range	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)
WAP-10	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.272	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0.314	NA	NA	NA	NA
WAP-21	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.836	NA	NA	NA	NA	8	0	2020-02-04 to 2025-07-08	0.37	NA	NA	NA	NA
WAP-27	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0.3	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA
WBW-1 (Background)	Molybdenum	Not Evaluated - No detected results.	Not Evaluated - No detected results.	24	0	0.836	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.37	NA	NA	NA	NA
Pooled Background	Radium-226 & 228	Stable	Stable	48	36	0.552	-0.107	0.295	70.5	-118	8	8	2023-02-14 to 2025-06-25	0.354	-0.214	0.536	46.4	-6
WAP-1 (Background)	Radium-226 & 228	Stable	No Trend	24	19	0.55	-0.159	0.295	70.5	-43	8	8	2020-02-03 to 2025-06-25	0.492	0.0364	1	0	1
WAP-10	Radium-226 & 228	Stable	No Trend	24	24	0.33	-0.142	0.346	65.4	-39	8	8	2020-02-04 to 2025-06-26	0.486	0.286	0.386	61.4	8
WAP-21	Radium-226 & 228	Probably Decreasing	No Trend	24	20	0.602	-0.29	0.0523	94.8	-79	8	8	2020-02-04 to 2025-07-08	0.333	0.357	0.266	73.4	10
WAP-27	Radium-226 & 228	No Trend	Increasing	9	9	0.279	0.278	0.348	65.2	10	8	8	2023-03-02 to 2025-07-07	0.253	0.643	0.0354	96.5	18
WBW-1 (Background)	Radium-226 & 228	Stable	Stable	24	17	0.547	-0.0448	0.783	21.7	-12	8	8	2020-02-03 to 2025-06-25	0.398	-0.357	0.266	73.4	-10
Pooled Background	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	48	0	0.382	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.366	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.524	NA	NA	NA	NA
WAP-10	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	25	0	0.366	NA	NA	NA	NA	8	0	2020-02-04 to 2025-06-26	0.524	NA	NA	NA	NA
WAP-21	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0.421	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	0.505	NA	NA	NA	NA
WAP-27	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0.3	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA
WBW-1 (Background)	Selenium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	23	0	0.403	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0.572	NA	NA	NA	NA
Pooled Background	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	44	0	0.139	NA	NA	NA	NA	8	0	2023-02-14 to 2025-06-25	0	NA	NA	NA	NA
WAP-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0.2	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA
WAP-10	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	0	NA	NA	NA	NA	8	0	2018-06-05 to 2025-06-26	0	NA	NA	NA	NA
WAP-21	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	20	0	1.39	NA	NA	NA	NA	8	0	2018-06-06 to 2025-07-08	1.5	NA	NA	NA	NA
WAP-27	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	9	0	0	NA	NA	NA	NA	8	0	2023-03-02 to 2025-07-07	0	NA	NA	NA	NA
WBW-1 (Background)	Thallium	Not Evaluated - No detected results.	Not Evaluated - No detected results.	22	0	0	NA	NA	NA	NA	8	0	2020-02-03 to 2025-06-25	0	NA	NA	NA	NA

Note:

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

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

Constituent	Units	n	n, non-detects	Interwell Background Data Characterization [a]									Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		Minimum Coverage [%]		
				max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Francia) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source		UTL calculation method	UTL calculation details
Antimony	mg/L	44	43	0.025	0.0053	0.00585	0.005	2015-11-10	2025-06-25	0.00425	0.727	No Trend	Not normal (Interwell Background)	NA - Original Data	0.025	No	0.006	0.025	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Arsenic	mg/L	50	43	0.005	0.0096	0.00498	0.005	2015-11-10	2025-06-25	0.00129	0.26	Increasing	Not normal (Interwell Background)	NA - Original Data	0.0096	Yes	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Barium	mg/L	50	0	NA	0.094	0.0306	0.0222	2015-11-10	2025-06-25	0.0234	0.766	Increasing	Not normal (Interwell Background)	NA - Original Data	0.094	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Beryllium	mg/L	44	44	0.0005	NA	0.0005	0.0005	2015-11-10	2025-06-25	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Cadmium	mg/L	48	48	0.0005	NA	0.0005	0.0005	2015-11-10	2025-06-25	0	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.0005	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Chromium	mg/L	48	47	0.005	0.005	0.005	0.005	2015-11-10	2025-06-25	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Cobalt	mg/L	48	29	0.0005	0.00838	0.000933	0.0005	2015-11-10	2025-06-25	0.00123	1.32	Increasing	Not normal (Interwell Background)	NA - Original Data	0.00838	Yes	0.006	0.00838	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Fluoride	mg/L	50	47	0.1	0.14	0.101	0.1	2015-11-10	2025-06-25	0.007	0.069	Stable	Not normal (Interwell Background)	NA - Original Data	0.14	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	94.2
Lead	mg/L	48	44	0.01	0.00456	0.00198	0.001	2015-11-10	2025-06-25	0.00223	1.13	No Trend	Not normal (Interwell Background)	NA - Original Data	0.01	No	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Lithium	mg/L	48	46	0.01	0.0116	0.00868	0.01	2015-11-10	2025-06-25	0.00228	0.262	Decreasing	Not normal (Interwell Background)	NA - Original Data	0.0116	Yes	0.04	0.04	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Mercury	mg/L	44	43	0.0002	0.0002	0.0002	0.0002	2015-11-10	2025-06-25	0	NA	Only one unique result.	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4
Molybdenum	mg/L	48	48	0.05	NA	0.00948	0.01	2015-11-10	2025-06-25	0.00638	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Radium-226 & 228	pCi/L	48	12	4	5.97	3.05	4	2015-11-10	2025-06-25	1.49	0.488	Decreasing	Not normal (Interwell Background)	NA - Original Data	5.97	Yes	5	5.97	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Selenium	mg/L	48	48	0.02	NA	0.0109	0.01	2015-11-10	2025-06-25	0.00418	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.02	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.9
Thallium	mg/L	44	44	0.001	NA	0.00098	0.001	2015-11-10	2025-06-25	0.000136	NA	All non-detect results.	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (Non-detects substituted by the reporting limit)	93.4

Note:
 [a] Interwell background datasets are analyte specific and include data collected from background wells. Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.
 [b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.
 [c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.
 Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification

Location	Chemical	Units	Confidence Interval (CI) Dataset						CI Calculation [a]				SSL Confirmation		Non-Parametric CI Statistics	
			n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
WAP-10	Arsenic	mg/L	26	0.158	0.003	0.0057	0.0302	0.0467	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	25	0.0159	0.005	0.01	No	10000	0.0055
WAP-27	Arsenic	mg/L	9	0.122	0.0756	0.0932	0.0963	0.0166	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	8	0.109	0.0836	0.01	Yes, SSL	NA	NA
WAP-10	Lithium	mg/L	25	0.116	0.019	0.026	0.0369	0.0223	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	24	0.0386	0.023	0.04	No	10000	0.026
WAP-27	Lithium	mg/L	9	0.0499	0.005	0.0097	0.0157	0.0144	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	8	0.0263	0.005	0.04	No	10000	0.00858
WAP-10	Radium-226 & 228	pCi/L	24	7.26	1.55	5.48	4.99	1.64	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	23	5.68	4.29	5.97	No	NA	NA

Note:

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

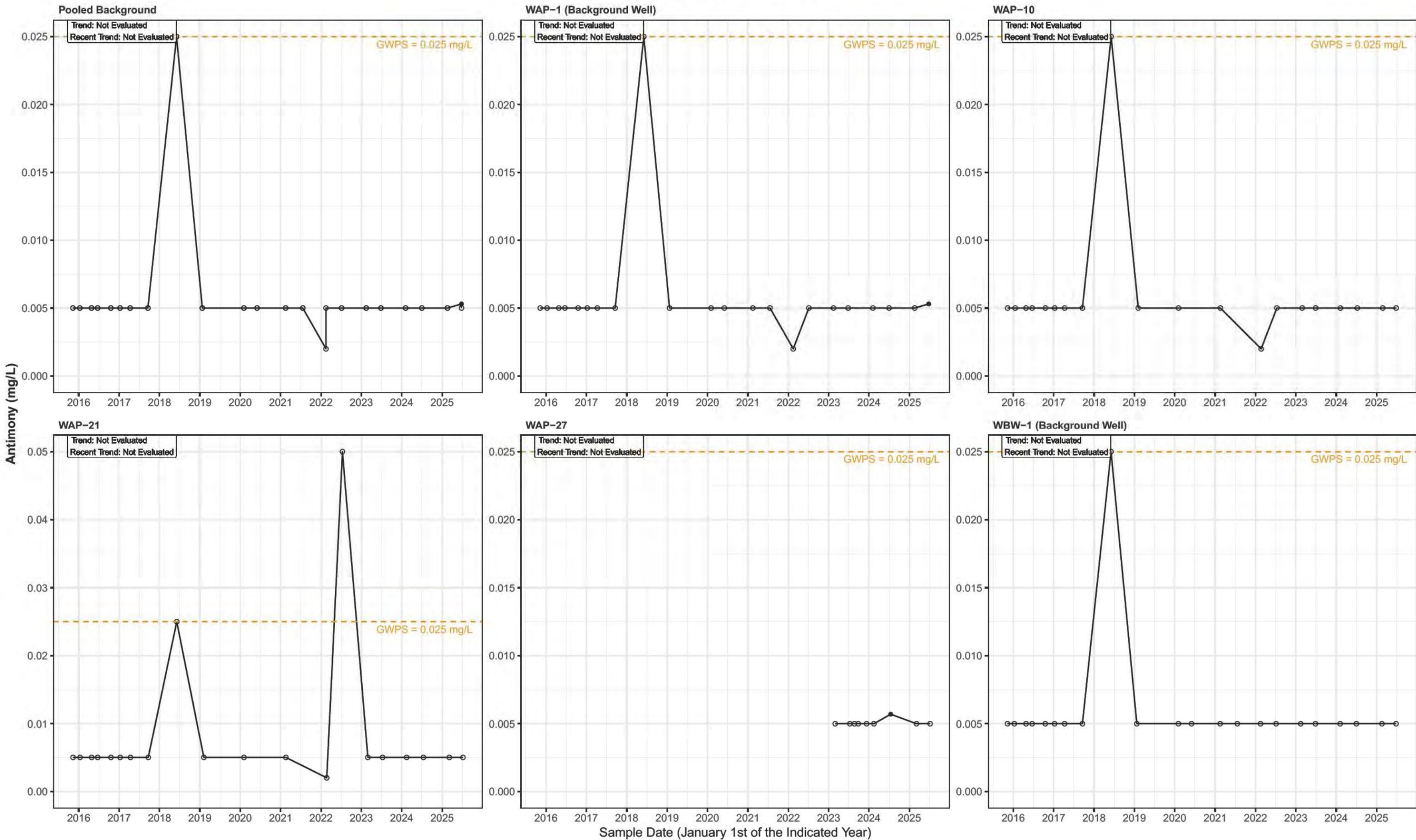
[a] The 95% lower confidence level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

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

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
WAP-27	Arsenic	mg/L	2025-07-07	0.109	0.0096	0.01	Yes	0.0836	Yes
WAP-1	Antimony	mg/L	2025-06-25	0.0053	0.025	0.025	No	NA	No
WAP-10	Antimony	mg/L	2025-06-26	0.005	0.025	0.025	No	NA	No
WAP-21	Antimony	mg/L	2025-07-08	0.005	0.025	0.025	No	NA	No
WAP-27	Antimony	mg/L	2025-07-07	0.005	0.025	0.025	No	NA	No
WBW-1	Antimony	mg/L	2025-06-25	0.005	0.025	0.025	No	NA	No
WAP-1	Arsenic	mg/L	2025-06-25	0.0057	0.0096	0.01	No	NA	No
WAP-10	Arsenic	mg/L	2025-06-26	0.158	0.0096	0.01	Yes	0.005	No
WAP-21	Arsenic	mg/L	2025-07-08	0.006	0.0096	0.01	No	NA	No
WBW-1	Arsenic	mg/L	2025-06-25	0.005	0.0096	0.01	No	NA	No
WAP-1	Barium	mg/L	2025-06-25	0.0365	0.094	2	No	NA	No
WAP-10	Barium	mg/L	2025-06-26	0.323	0.094	2	No	NA	No
WAP-21	Barium	mg/L	2025-07-08	0.0477	0.094	2	No	NA	No
WAP-27	Barium	mg/L	2025-07-07	0.179	0.094	2	No	NA	No
WBW-1	Barium	mg/L	2025-06-25	0.0222	0.094	2	No	NA	No
WAP-1	Beryllium	mg/L	2025-06-25	0.0005	0.0005	0.004	No	NA	No
WAP-10	Beryllium	mg/L	2025-06-26	0.0005	0.0005	0.004	No	NA	No
WAP-21	Beryllium	mg/L	2025-07-08	0.0005	0.0005	0.004	No	NA	No
WAP-27	Beryllium	mg/L	2025-07-07	0.0005	0.0005	0.004	No	NA	No
WBW-1	Beryllium	mg/L	2025-06-25	0.0005	0.0005	0.004	No	NA	No
WAP-1	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-10	Cadmium	mg/L	2025-06-26	0.0005	0.0005	0.005	No	NA	No
WAP-21	Cadmium	mg/L	2025-07-08	0.0005	0.0005	0.005	No	NA	No
WAP-27	Cadmium	mg/L	2025-07-07	0.0005	0.0005	0.005	No	NA	No
WBW-1	Cadmium	mg/L	2025-06-25	0.0005	0.0005	0.005	No	NA	No
WAP-1	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-10	Chromium	mg/L	2025-06-26	0.005	0.005	0.1	No	NA	No
WAP-21	Chromium	mg/L	2025-07-08	0.005	0.005	0.1	No	NA	No
WAP-27	Chromium	mg/L	2025-07-07	0.005	0.005	0.1	No	NA	No
WBW-1	Chromium	mg/L	2025-06-25	0.005	0.005	0.1	No	NA	No
WAP-1	Cobalt	mg/L	2025-06-25	0.00094	0.00838	0.00838	No	NA	No
WAP-10	Cobalt	mg/L	2025-06-26	0.0005	0.00838	0.00838	No	NA	No
WAP-21	Cobalt	mg/L	2025-07-08	0.00095	0.00838	0.00838	No	NA	No
WAP-27	Cobalt	mg/L	2025-07-07	0.0005	0.00838	0.00838	No	NA	No
WBW-1	Cobalt	mg/L	2025-06-25	0.0005	0.00838	0.00838	No	NA	No
WAP-1	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-10	Fluoride	mg/L	2025-06-26	0.1	0.14	4	No	NA	No
WAP-21	Fluoride	mg/L	2025-07-08	0.1	0.14	4	No	NA	No
WAP-27	Fluoride	mg/L	2025-07-07	0.1	0.14	4	No	NA	No
WBW-1	Fluoride	mg/L	2025-06-25	0.1	0.14	4	No	NA	No
WAP-1	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-10	Lead	mg/L	2025-06-26	0.001	0.01	0.015	No	NA	No
WAP-21	Lead	mg/L	2025-07-08	0.001	0.01	0.015	No	NA	No
WAP-27	Lead	mg/L	2025-07-07	0.001	0.01	0.015	No	NA	No
WBW-1	Lead	mg/L	2025-06-25	0.001	0.01	0.015	No	NA	No
WAP-1	Lithium	mg/L	2025-06-25	0.005	0.0116	0.04	No	NA	No
WAP-10	Lithium	mg/L	2025-06-26	0.116	0.0116	0.04	Yes	0.023	No
WAP-21	Lithium	mg/L	2025-07-08	0.005	0.0116	0.04	No	NA	No
WAP-27	Lithium	mg/L	2025-07-07	0.0499	0.0116	0.04	Yes	0.005	No
WBW-1	Lithium	mg/L	2025-06-25	0.005	0.0116	0.04	No	NA	No
WAP-1	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-10	Mercury	mg/L	2025-06-26	0.0002	0.0002	0.002	No	NA	No
WAP-21	Mercury	mg/L	2025-07-08	0.0002	0.0002	0.002	No	NA	No
WAP-27	Mercury	mg/L	2025-07-07	0.0002	0.0002	0.002	No	NA	No
WBW-1	Mercury	mg/L	2025-06-25	0.0002	0.0002	0.002	No	NA	No
WAP-1	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-10	Molybdenum	mg/L	2025-06-26	0.005	0.05	0.1	No	NA	No
WAP-21	Molybdenum	mg/L	2025-07-08	0.005	0.05	0.1	No	NA	No
WAP-27	Molybdenum	mg/L	2025-07-07	0.005	0.05	0.1	No	NA	No
WBW-1	Molybdenum	mg/L	2025-06-25	0.005	0.05	0.1	No	NA	No
WAP-1	Radium-226 & 228	pCi/L	2025-06-25	2.14	5.97	5.97	No	NA	No
WAP-10	Radium-226 & 228	pCi/L	2025-06-26	7.26	5.97	5.97	Yes	4.29	No
WAP-21	Radium-226 & 228	pCi/L	2025-07-08	2.01	5.97	5.97	No	NA	No
WAP-27	Radium-226 & 228	pCi/L	2025-07-07	2.64	5.97	5.97	No	NA	No
WBW-1	Radium-226 & 228	pCi/L	2025-06-25	2.24	5.97	5.97	No	NA	No
WAP-1	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-10	Selenium	mg/L	2025-06-26	0.01	0.02	0.05	No	NA	No
WAP-21	Selenium	mg/L	2025-07-08	0.01	0.02	0.05	No	NA	No
WAP-27	Selenium	mg/L	2025-07-07	0.01	0.02	0.05	No	NA	No
WBW-1	Selenium	mg/L	2025-06-25	0.01	0.02	0.05	No	NA	No
WAP-1	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No
WAP-10	Thallium	mg/L	2025-06-26	0.001	0.001	0.002	No	NA	No
WAP-21	Thallium	mg/L	2025-07-08	0.001	0.001	0.002	No	NA	No
WAP-27	Thallium	mg/L	2025-07-07	0.001	0.001	0.002	No	NA	No
WBW-1	Thallium	mg/L	2025-06-25	0.001	0.001	0.002	No	NA	No

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

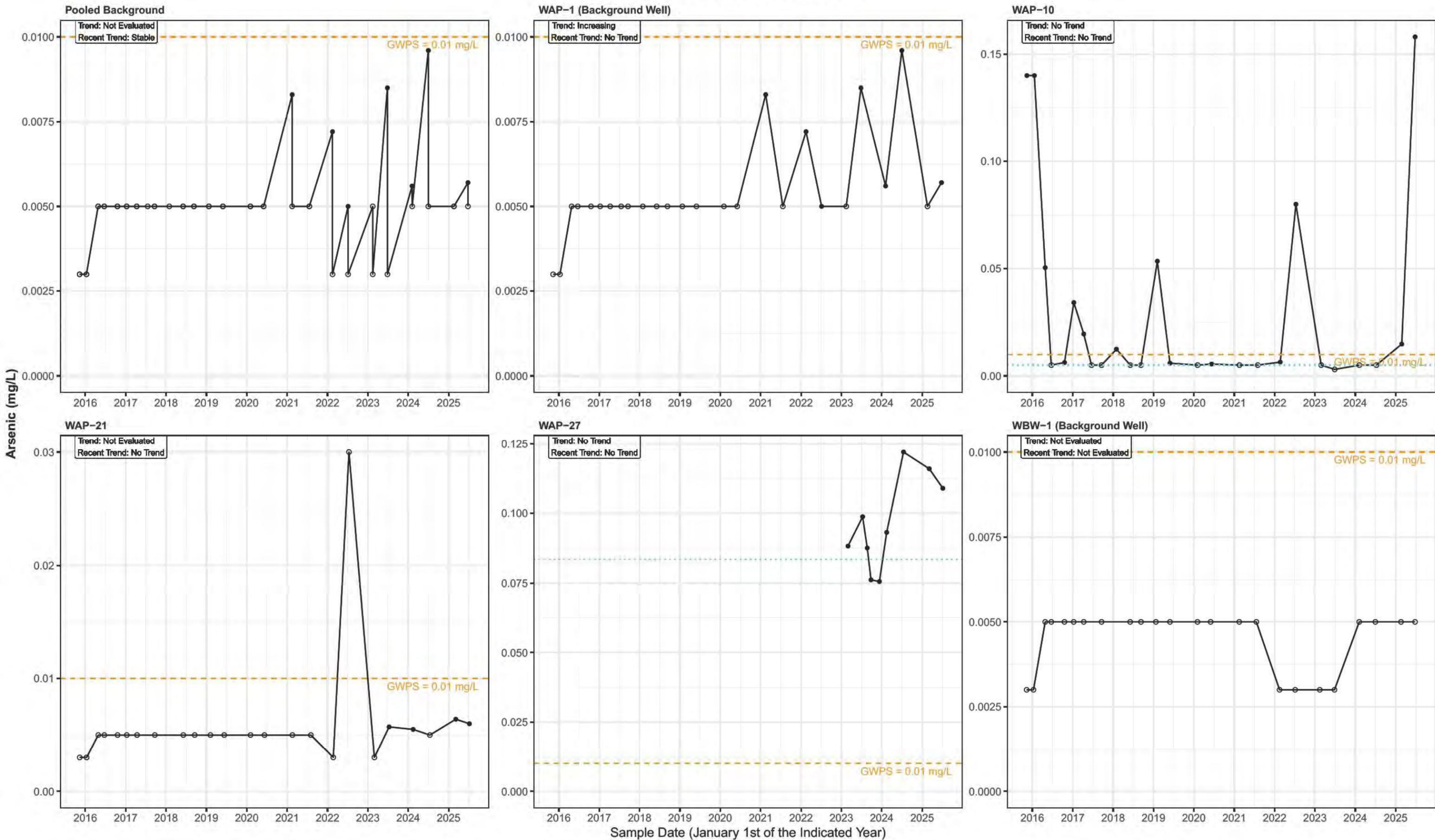
Trend Analysis for Antimony



Detection Status: ● Detect ○ Non-Detect

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

Trend Analysis Plots for Arsenic



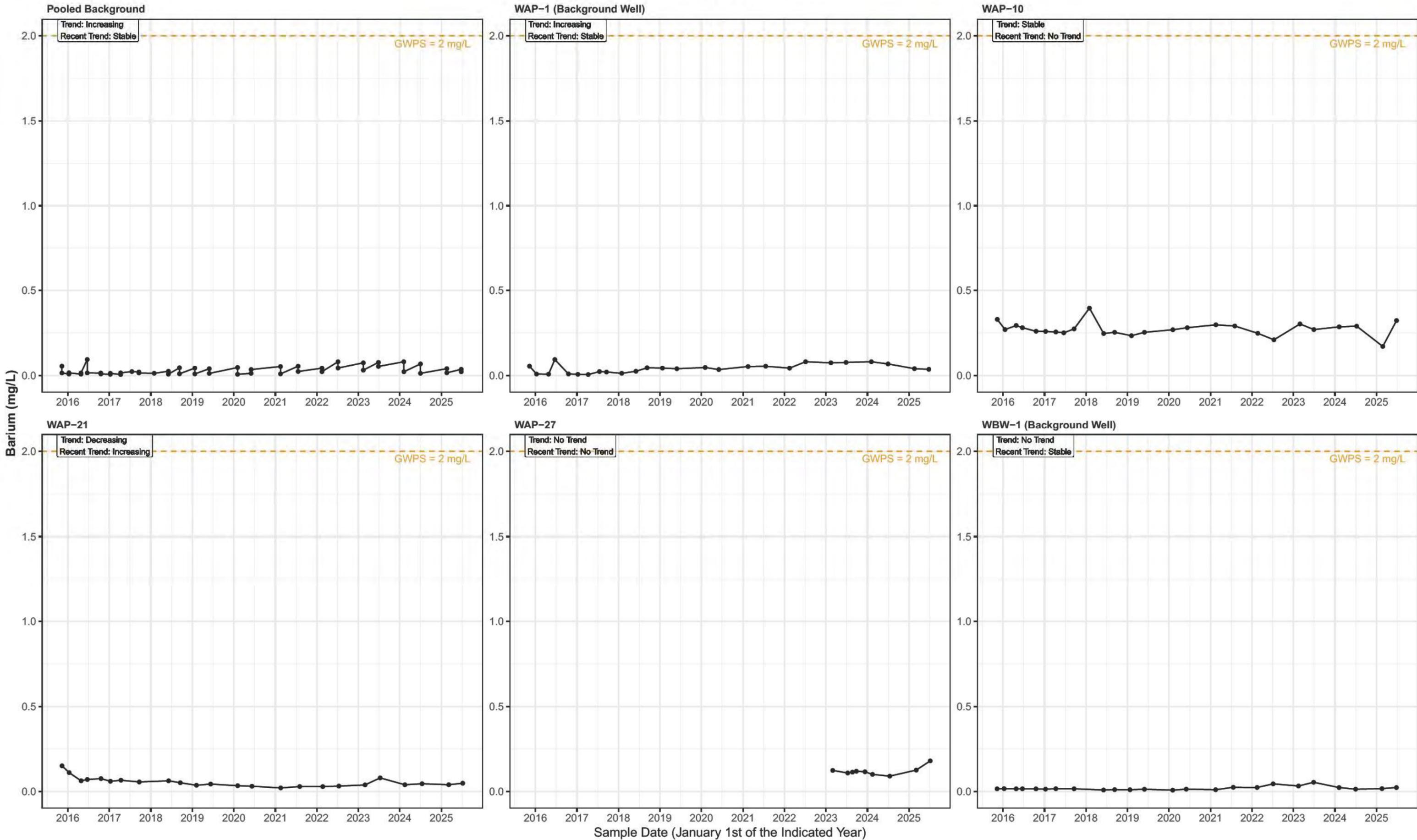
--- GWPS
 ---- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. If LCL > GWPS, a statistically significant level (SSL) is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

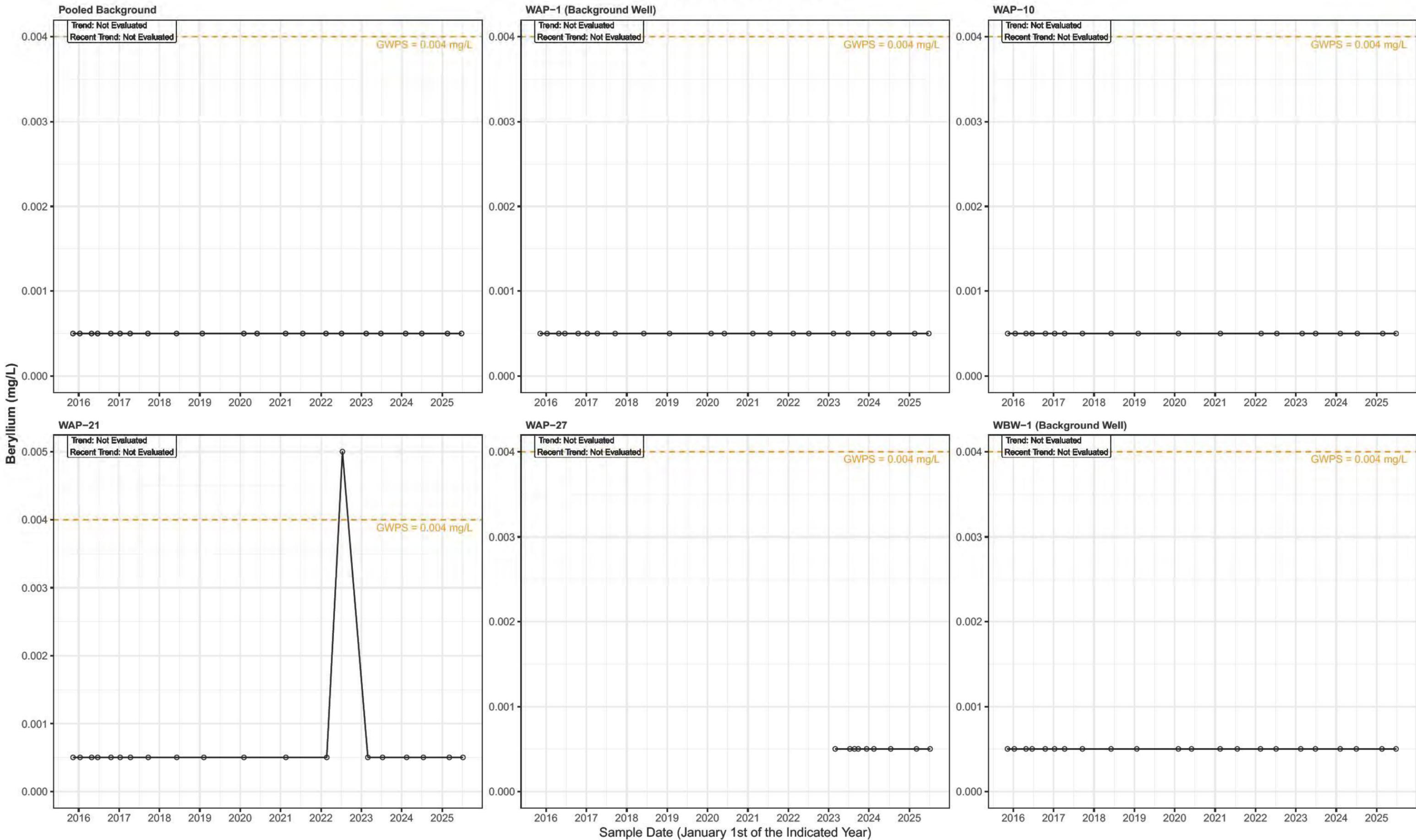
Trend Analysis for Barium



Detection Status: ● Detect

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

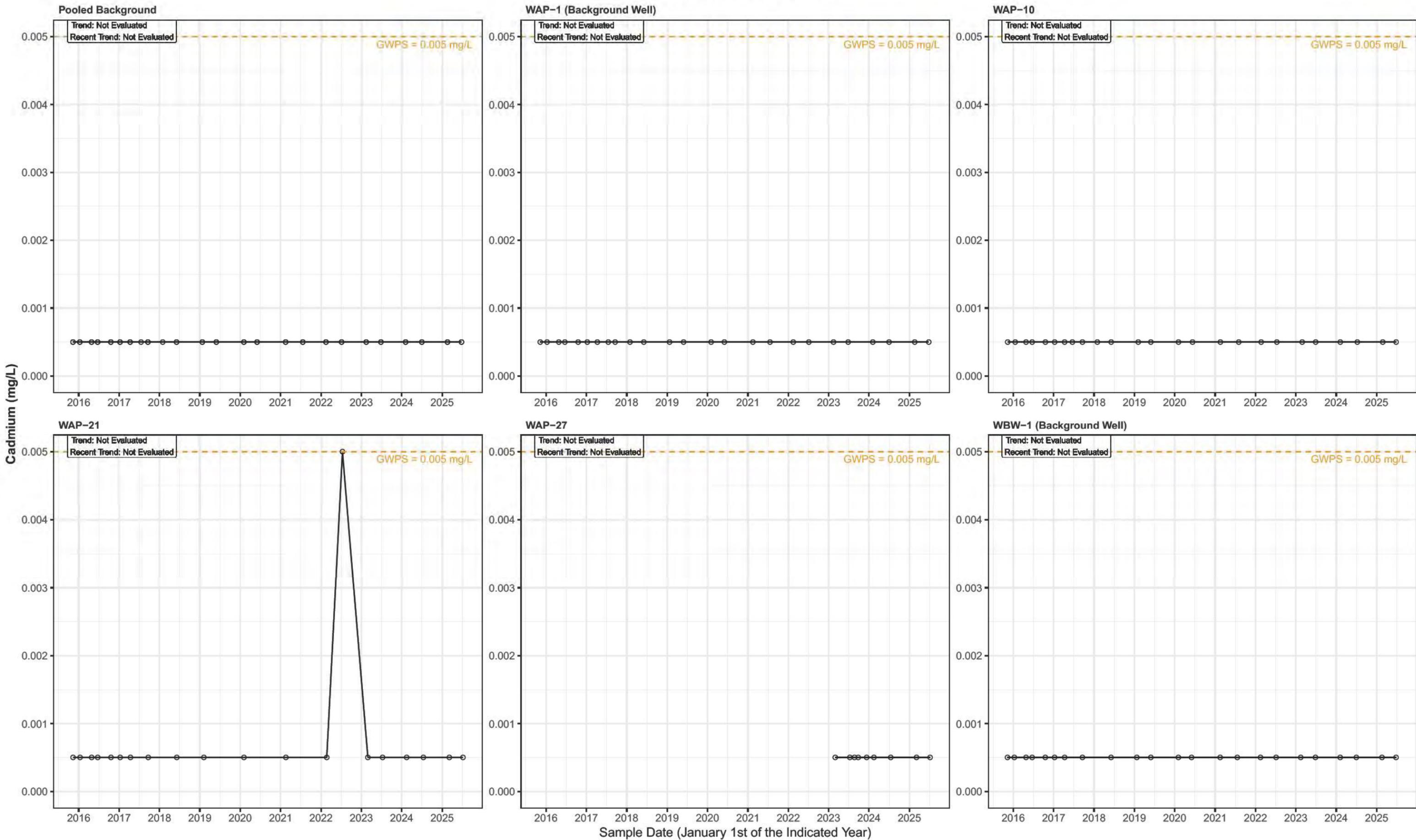
Trend Analysis for Beryllium



Detection Status: ○ Non-Detect

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

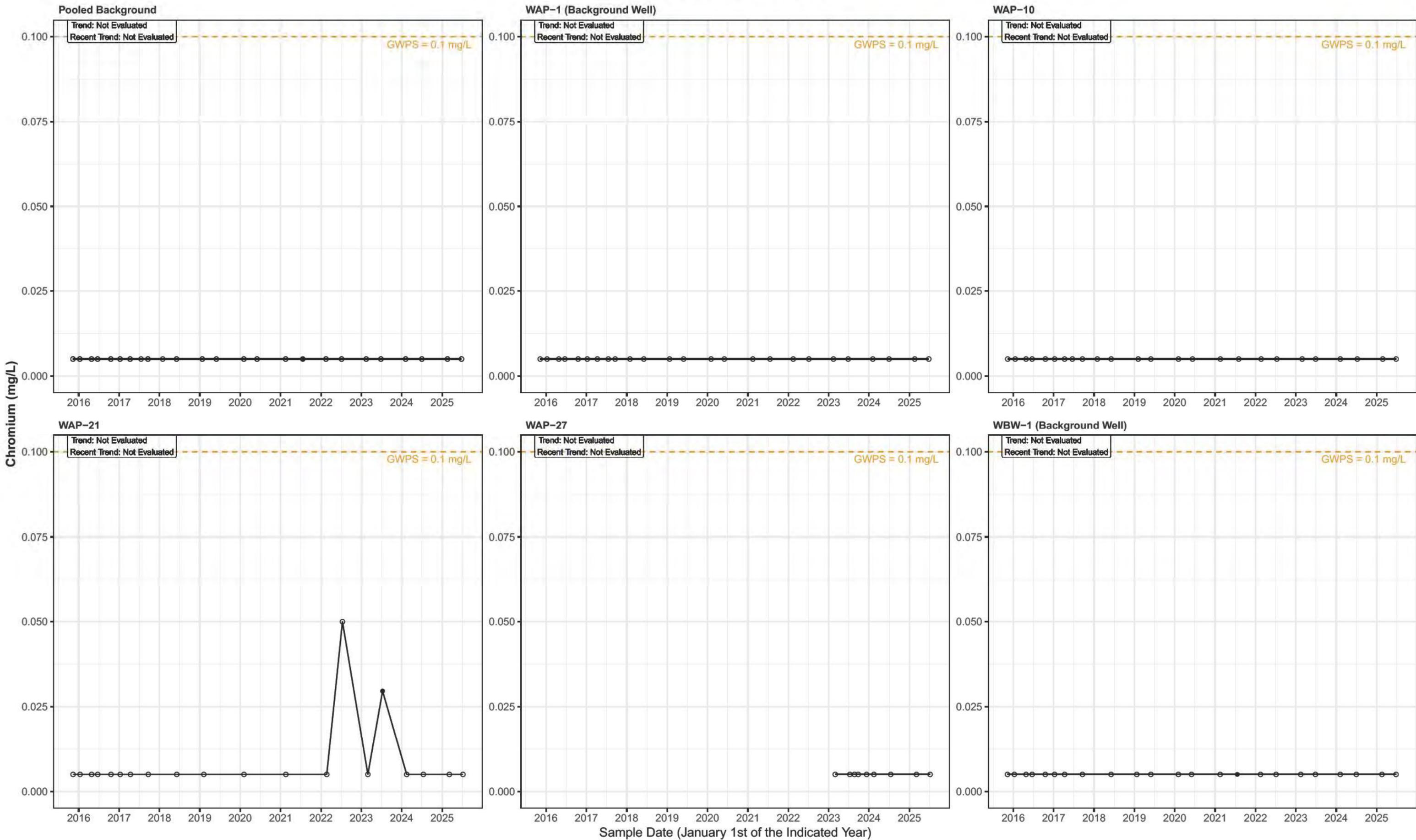
Trend Analysis for Cadmium



Detection Status: ○ Non-Detect

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

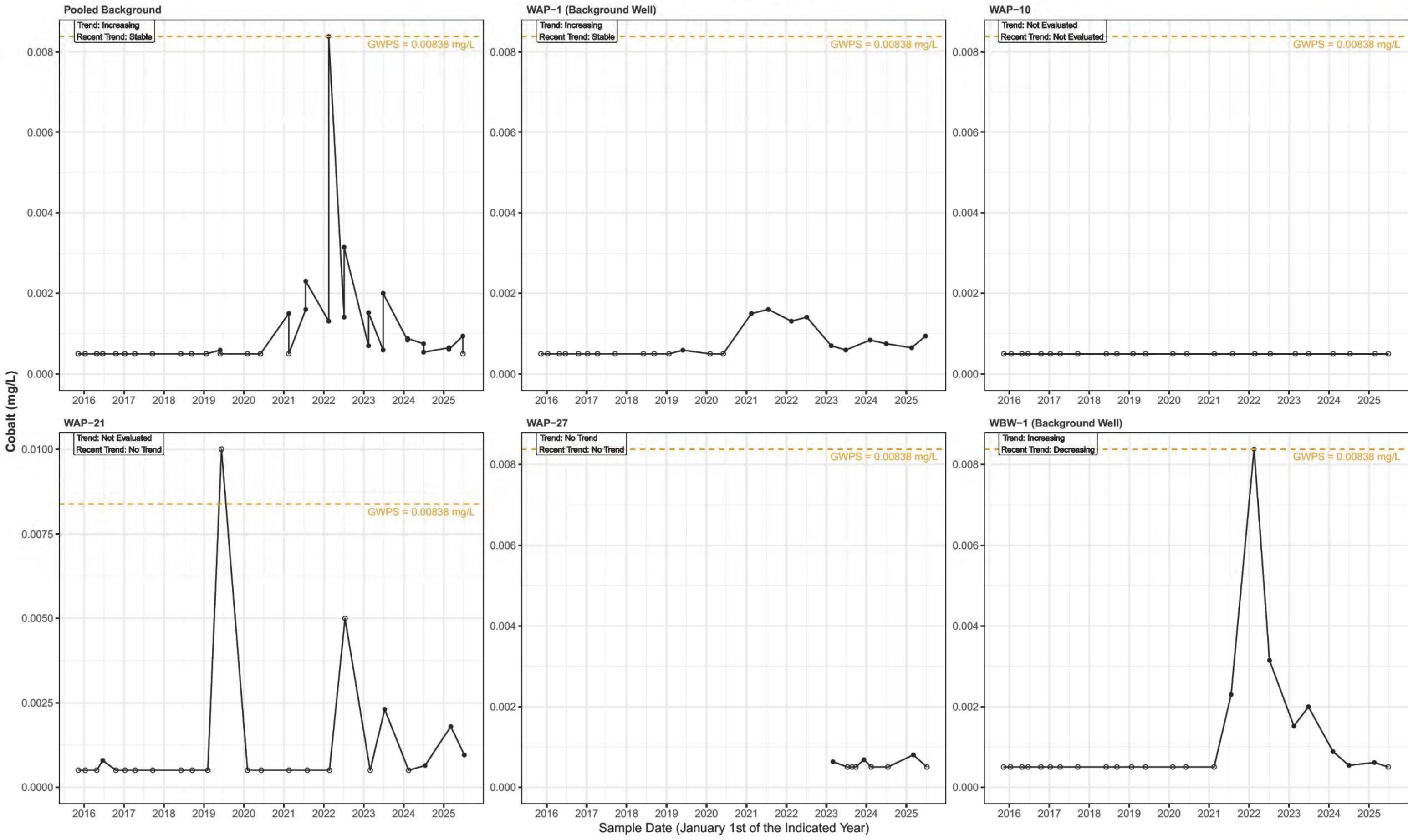
Trend Analysis for Chromium



Detection Status: ● Detect ○ Non-Detect

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

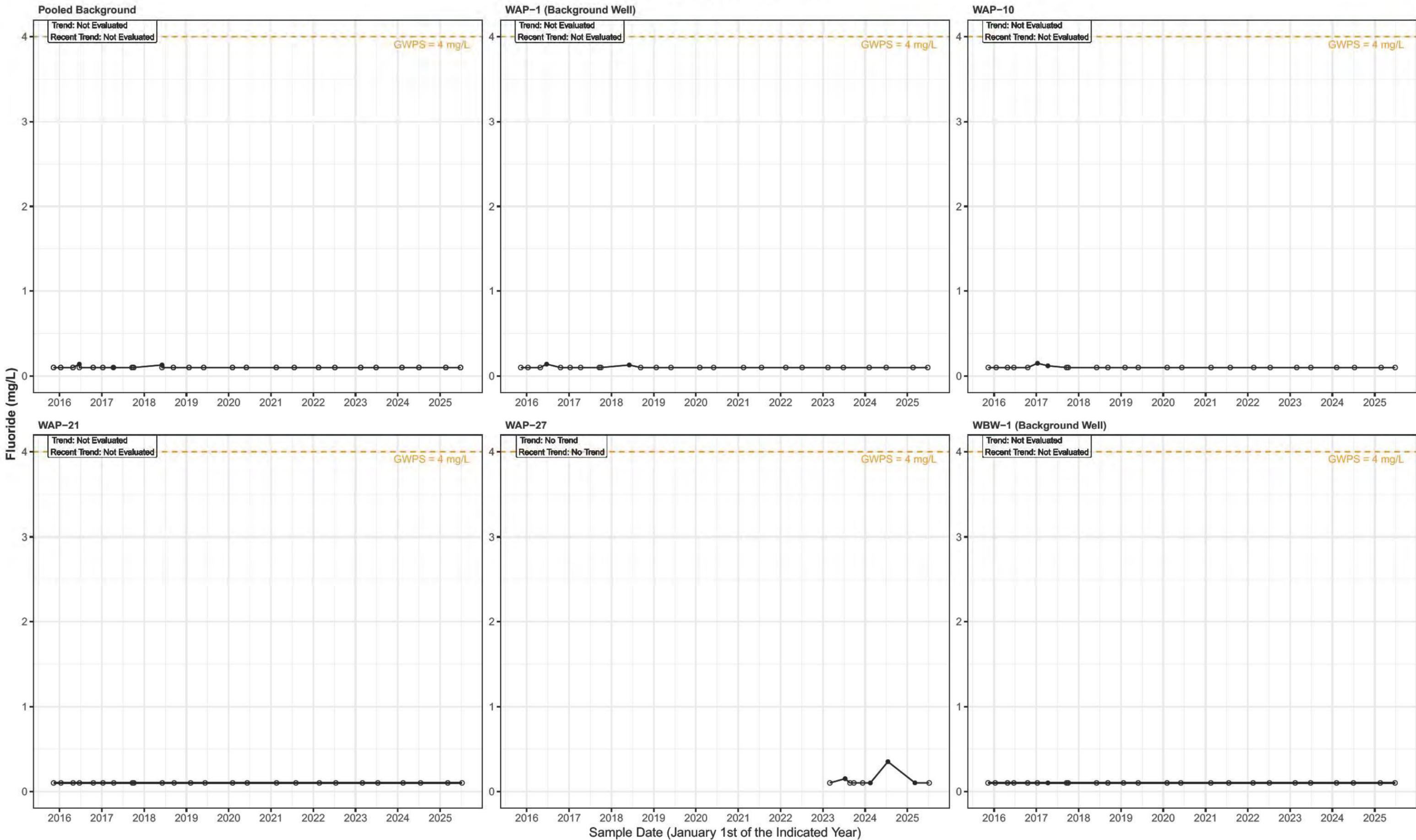
Trend Analysis for Cobalt



Detection Status: ● Detect ○ Non-Detect

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

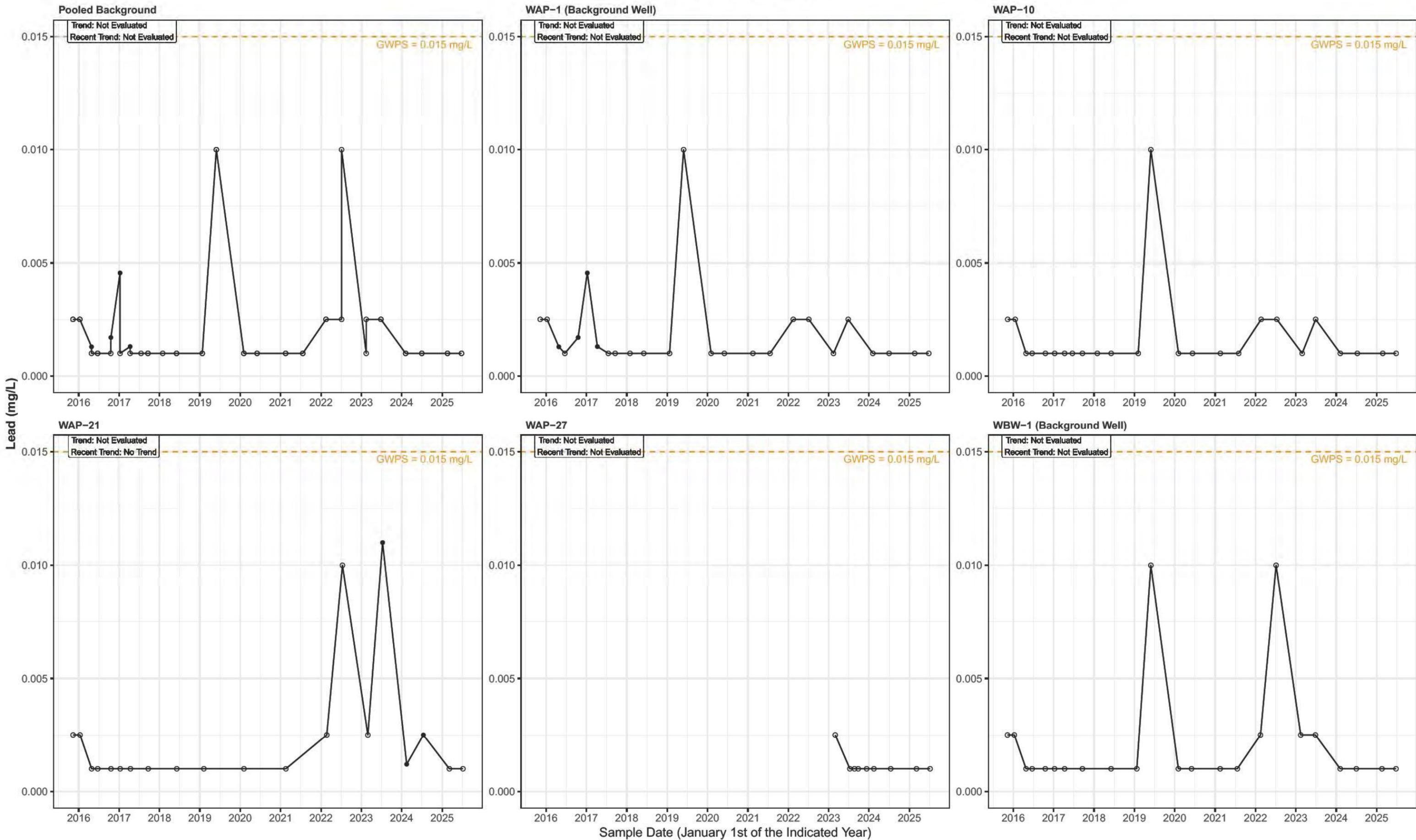
Trend Analysis for Fluoride



Detection Status: ● Detect ○ Non-Detect

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

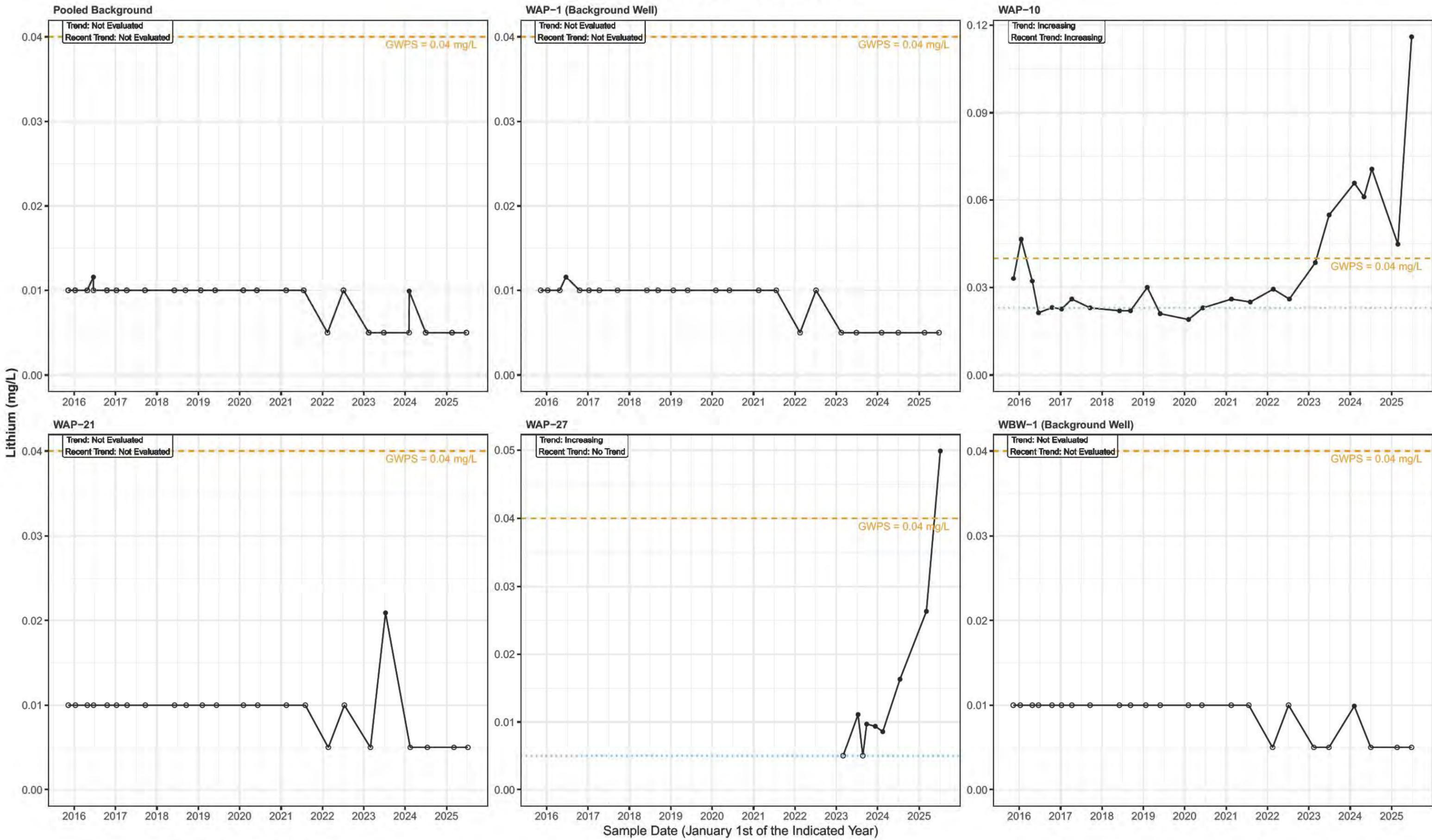
Trend Analysis for Lead



Detection Status: ● Detect ○ Non-Detect

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

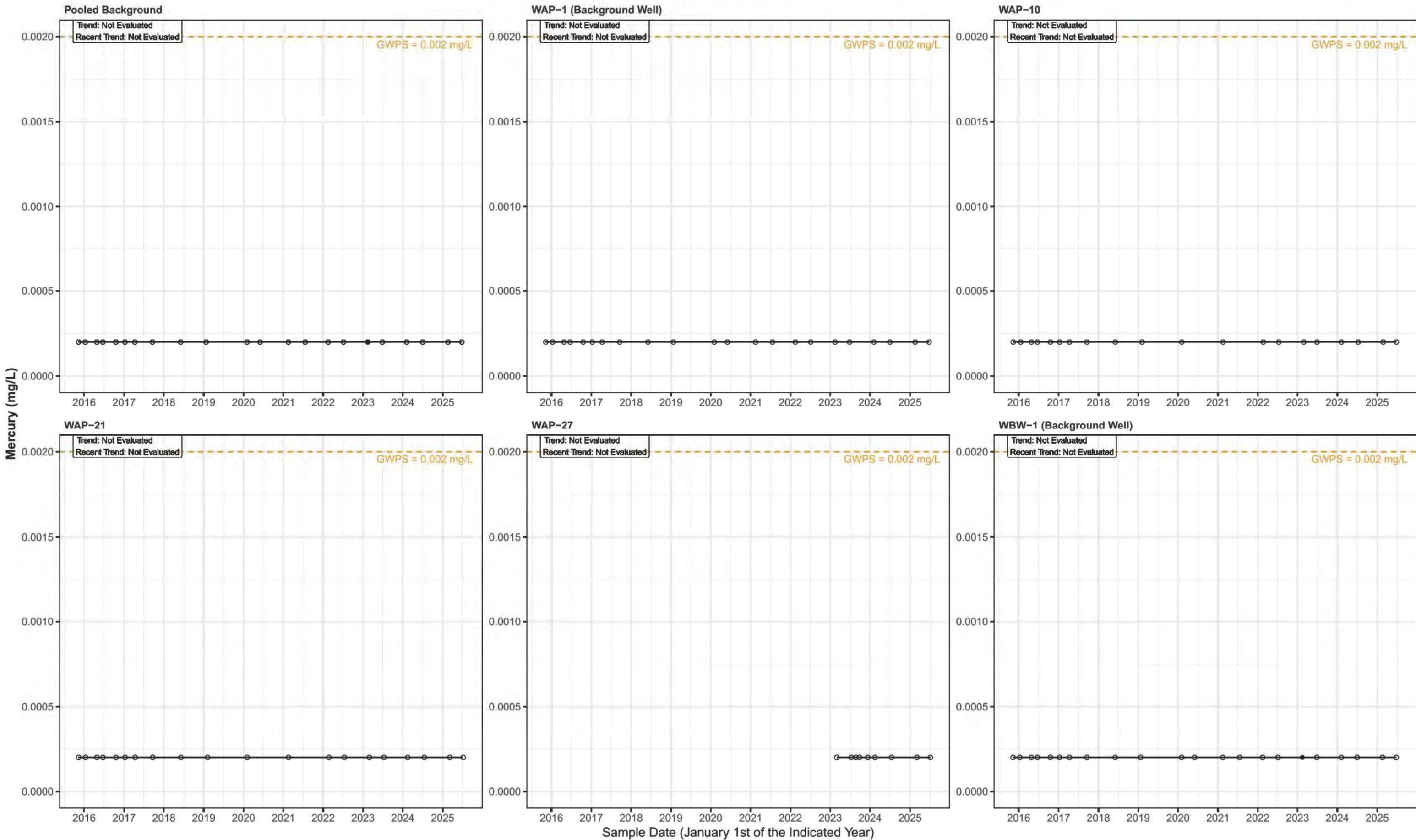
Trend Analysis Plots for Lithium



--- GWPS
 ---- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

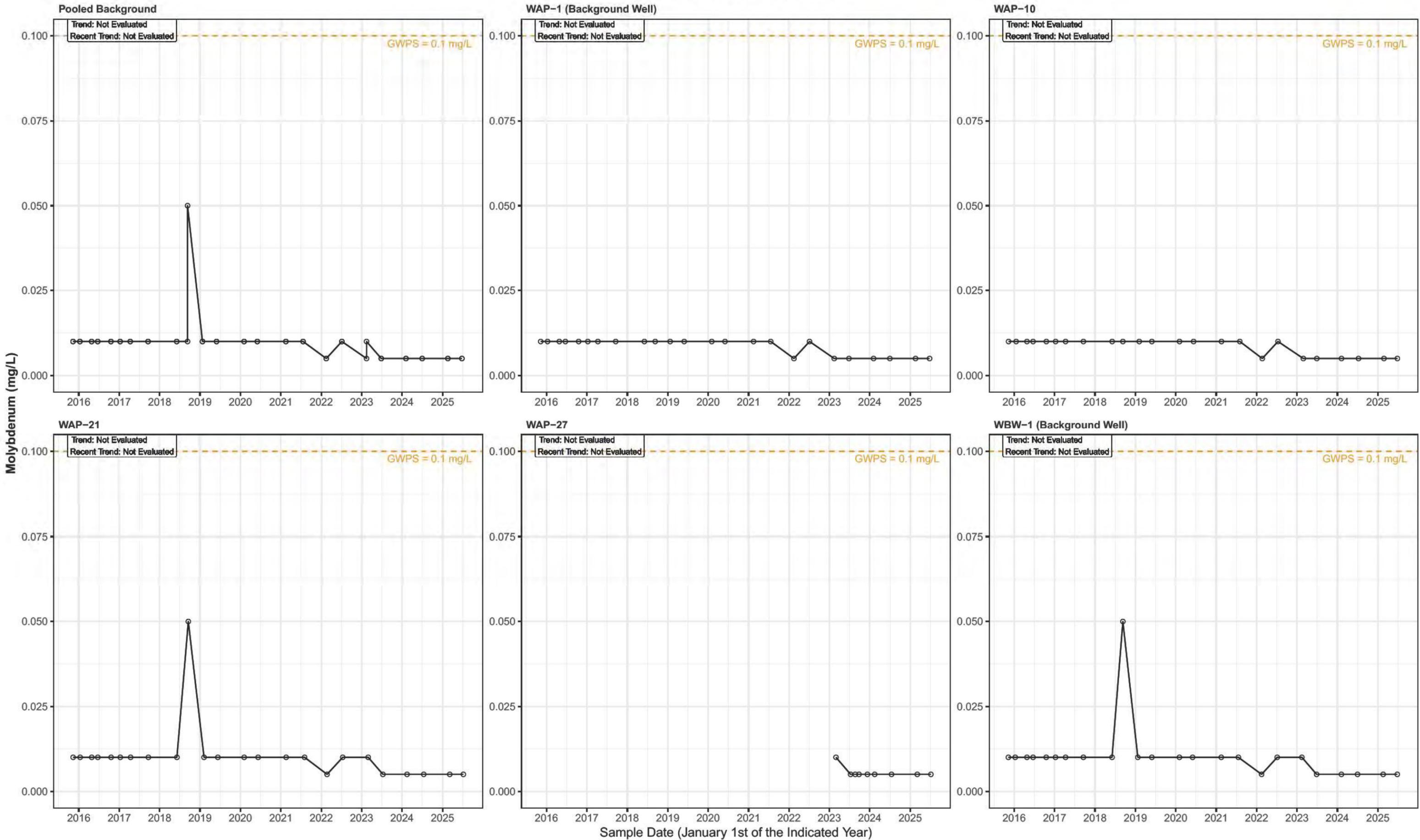
Trend Analysis for Mercury



Detection Status: ● Detect ○ Non-Detect

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

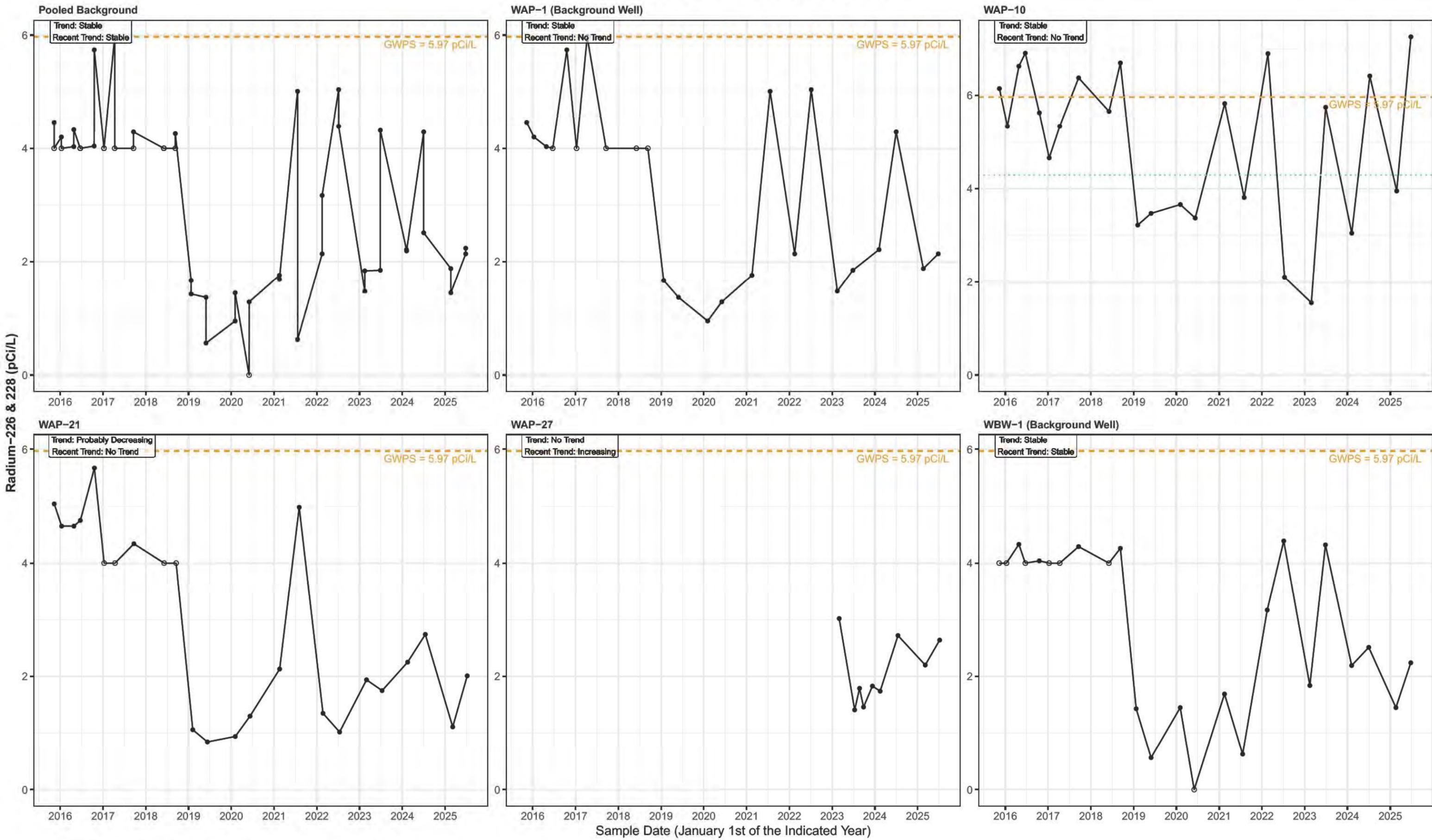
Trend Analysis for Molybdenum



Detection Status: ○ Non-Detect

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

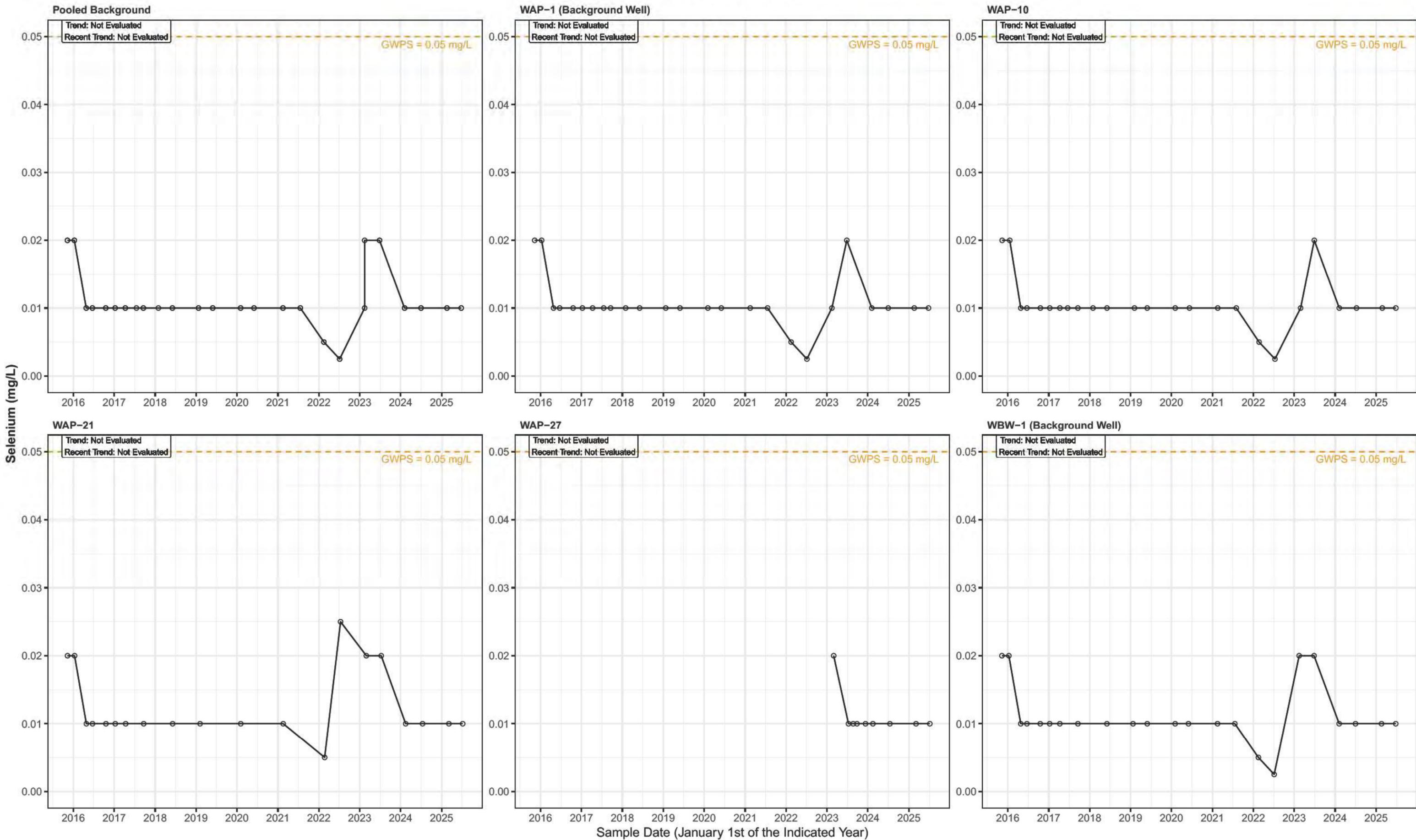
Trend Analysis Plots for Radium-226 & 228



--- GWPS
 ---- LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

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

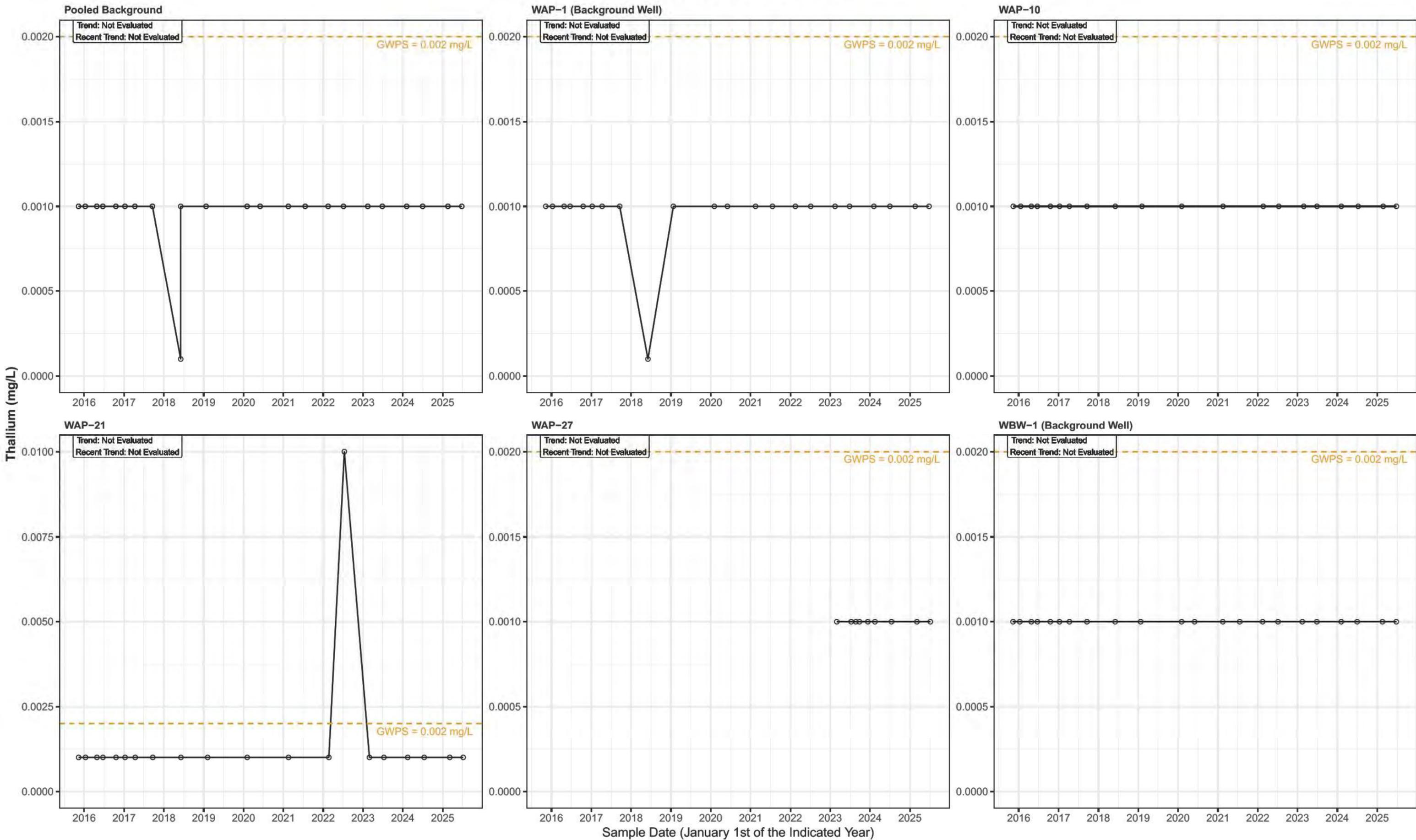
Trend Analysis for Selenium



Detection Status: ○ Non-Detect

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

Trend Analysis for Thallium



Detection Status: ○ Non-Detect

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

Appendix B – Laboratory Analytical Results



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25121 Location: GW Well WAP-1 Date: 02/18/2025 Sample Collector: MDG/DCA

Loc. Code WAP-1 Time: 12:29

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Barium	40.3	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Calcium	6.1	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Cobalt	0.65	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Boron	26.6	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/04/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	02/22/2025	GEL	EPA 300.0
Chloride	8.58	mg/L	02/22/2025	GEL	EPA 300.0
Sulfate	41.4	mg/L	02/21/2025	GEL	EPA 300.0
Total Dissolved Solids	62.50	mg/L	02/21/2025	GJKOCENI	SM 2540C
Radium 226	0.883	pCi/L	03/19/2025	GEL	EPA 903.1 Mod
Radium 228	1.00	pCi/L	03/23/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.88	pCi/L	04/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.63	SU	02/18/2025	MDG/DCA	

Comments:

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

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date: 4/28/25

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25131 Location: GW Well WAP-9 Date: 02/25/2025 Sample Collector: MGD/SB
Loc. Code WAP-9 Time: 15:21

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	44.3	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	117	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	298	mg/L	03/11/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Cobalt	0.90	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	6.5	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
Boron	4470	ug/L	03/06/2025	SKJACOBS	EPA 6010D
Lithium	104	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	113	mg/L	03/02/2025	GEL	EPA 300.0
Sulfate	542	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	1325	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	1.37	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	1.09	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.46	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.30	SU	02/25/2025	MGD/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

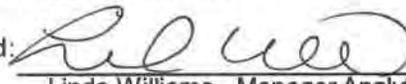
SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG25133 **Location:** GW Well WAP-10 **Date:** 02/25/2025 **Sample Collector:** MGD/SB
Loc. Code WAP-10 **Time:** 13:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	14.8	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	171	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	397	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
Boron	7230	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Lithium	44.9	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/12/2025	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	362	mg/L	03/02/2025	GEL	EPA 300.0
Sulfate	580	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	1788	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	2.35	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	1.60	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.95	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	6.79	SU	02/25/2025	MGD/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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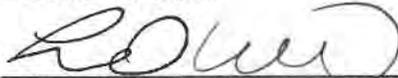
LAB CERTIFICATION #08552

Sample # AG25134 Location: GW Well WAP-10 Date: 02/25/2025 Sample Collector: MGD/SB
Loc. Code WAP-10 DUP Time: 13:50

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	18.1	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Barium	177	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/11/2025	SKJACOBS	EPA 6020B
Calcium	407	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
Boron	7340	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Lithium	46.2	ug/L	03/12/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/12/2025	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	343	mg/L	03/02/2025	GEL	EPA 300.0
Sulfate	560	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	1775	mg/L	02/28/2025	GJKOCENI	SM 2540C
Radium 226	1.15	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.240	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.39	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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CERTIFICATE OF ANALYSIS

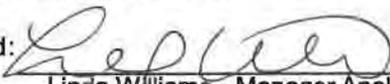
LAB CERTIFICATION #08552

Sample # AG25146 **Location:** GW Well WAP-17 **Date:** 03/04/2025 **Sample Collector:** BM/DA
Loc. Code WAP-17 **Time:** 12:00

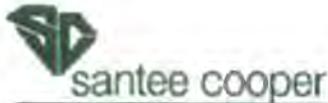
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	99.6	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	45.4	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	323	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	4730	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	19.9	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.066	mg/L	03/10/2025	GEL	EPA 300.0
Chloride	226	mg/L	03/08/2025	GEL	EPA 300.0
Sulfate	749	mg/L	03/08/2025	GEL	EPA 300.0
Total Dissolved Solids	1612	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	1.51	pCi/L	04/03/2025	GEL	EPA 903.1 Mod
Radium 228	1.54	pCi/L	04/01/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.05	pCi/L	04/24/2025	SJLEVY	EPA 903.1 Mod
pH	5.82	SU	03/04/2025	BM/DA	

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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LAB CERTIFICATION #08552

Sample # AG25147 Location: GW Well WAP-17 Date: 03/04/2025 Sample Collector: BM/DA
Loc. Code WAP-17 DUP Time: 12:05

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	90.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	46.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	313	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Nickel	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	4720	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	19.5	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.066	mg/L	03/10/2025	GEL	EPA 300.0
Chloride	221	mg/L	03/08/2025	GEL	EPA 300.0
Sulfate	759	mg/L	03/08/2025	GEL	EPA 300.0
Total Dissolved Solids	1610	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	1.21	pCi/L	04/03/2025	GEL	EPA 903.1 Mod
Radium 228	1.11	pCi/L	04/01/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.32	pCi/L	04/24/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated:  Validation date: 4/28/25
Linda Williams - Manager Analytical Services

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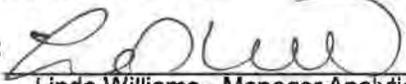
LAB CERTIFICATION #08552

Sample # AG25148 Location: GW Well WAP-18 Date: 02/27/2025 Sample Collector: ATH/SB
Loc. Code WAP-18 Time: 11:49

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	117	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Barium	130	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Calcium	88.3	mg/L	03/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Cobalt	1.9	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
Boron	946	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Lithium	81.8	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Molybdenum	121	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	0.132	mg/L	03/01/2025	GEL	EPA 300.0
Chloride	39.0	mg/L	03/02/2025	GEL	EPA 300.0
Sulfate	150	mg/L	03/02/2025	GEL	EPA 300.0
Total Dissolved Solids	390.0	mg/L	03/03/2025	GJKOCENI	SM 2540C
Radium 226	1.06	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.485	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.55	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	5.73	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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LAB CERTIFICATION #08552

Sample # AG25149 Location: GW Well WAP-19 Date: 03/04/2025 Sample Collector: BM/DA
Loc. Code WAP-19 Time: 14:05

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	83.1	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	57.9	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	657	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	1.3	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Nickel	1.4	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	4660	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	653	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	10.1	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	0.450	mg/L	03/10/2025	GEL	EPA 300.0
Chloride	45.5	mg/L	03/10/2025	GEL	EPA 300.0
Sulfate	1550	mg/L	03/08/2025	GEL	EPA 300.0
Total Dissolved Solids	2745	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	0.636	pCi/L	04/03/2025	GEL	EPA 903.1 Mod
Radium 228	0.832	pCi/L	04/01/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.47	pCi/L	04/24/2025	SJLEVY	EPA 903.1 Mod
pH	6.32	SU	03/04/2025	BM/DA	

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

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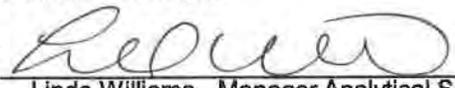
LAB CERTIFICATION #08552

Sample # AG25152 **Location:** GW Well WAP-21 **Date:** 03/06/2025 **Sample Collector:** MDG DA
Loc. Code WAP-21 **Time:** 13:08

Analysis	Result	Units	Test Date	Analyst	Method
Radium 226	0.472	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	0.640	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.11	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	6.28	SU	03/06/2025	MDG DA	

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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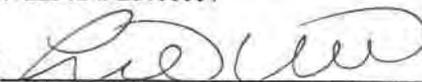
LAB CERTIFICATION #08552

Sample # AG27580 Location: GW Well WAP-21 Date: 03/07/2025 Sample Collector: MDG DA
 Loc. Code WAP-21 Second Grab Time: 09:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	6.4	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Barium	39.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Calcium	111	mg/L	03/24/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Cobalt	1.8	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Boron	3760	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	82.4	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	25.9	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	720.0	mg/L	03/12/2025	SJLEVY	SM 2540C

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
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LAB CERTIFICATION #08552

Sample # AG25159 Location: GW Well WAP-27 Date: 03/06/2025 Sample Collector: MDG/DA
 Loc. Code WAP-27 Time: 10:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	116	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	125	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	145	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	0.80	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	2840	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	26.3	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	0.101	mg/L	03/17/2025	GEL	EPA 300.0
Chloride	235	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	35.7	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	867.5	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	1.15	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	1.05	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.20	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	6.30	SU	03/06/2025	MDG/DA	

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

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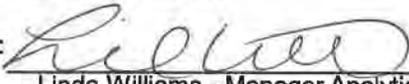
LAB CERTIFICATION #08552

Sample # AG25163 Location: GW Well WAP-30 Date: 03/06/2025 Sample Collector: MDG/DA
 Loc. Code WAP-30 Time: 11:49

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	110	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	214	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	0.64	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	707	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	11.4	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	171	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	81.9	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	982.5	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	0.665	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	0.952	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.62	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	6.70	SU	03/06/2025	MDG/DA	

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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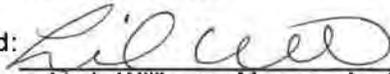
LAB CERTIFICATION #08552

Sample # AG25164 Location: GW Well WBW-1 Date: 02/18/2025 Sample Collector: MDG/DCA
Loc. Code WBW-1 Time: 11:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Barium	16.1	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Calcium	1.5	mg/L	02/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Cobalt	0.61	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Copper	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Nickel	0.89	ug/L	03/04/2025	SKJACOBS	EPA 6020B
Zinc	<10.0	ug/L	02/25/2025	SKJACOBS	EPA 6020B
Boron	16.4	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	02/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/04/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	02/22/2025	GEL	EPA 300.0
Chloride	2.73	mg/L	02/22/2025	GEL	EPA 300.0
Sulfate	6.56	mg/L	02/22/2025	GEL	EPA 300.0
Total Dissolved Solids	32.50	mg/L	02/21/2025	GJKOCENI	SM 2540C
Radium 226	0.607	pCi/L	03/19/2025	GEL	EPA 903.1 Mod
Radium 228	0.847	pCi/L	03/23/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.45	pCi/L	04/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.16	SU	02/18/2025	MDG/DCA	

Comments:

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

Analysis Validated:  Validation date: 4/29/25
Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG25153 Location: GW Well WAP-22 Date: 02/27/2025 Sample Collector: ATH/SB

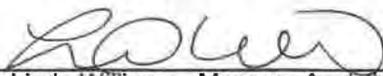
Loc. Code WAP-22 Time: 12:19

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Barium	73.1	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Calcium	174	mg/L	03/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/10/2025	SKJACOBS	EPA 6020B
Cobalt	0.72	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
Boron	1160	ug/L	03/17/2025	SKJACOBS	EPA 6010D
Lithium	14.3	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	02/28/2025	GEL	EPA 300.0
Chloride	100	mg/L	03/01/2025	GEL	EPA 300.0
Sulfate	98.6	mg/L	03/01/2025	GEL	EPA 300.0
Total Dissolved Solids	672.5	mg/L	03/03/2025	GJKOCENI	SM 2540C
Radium 226	0.574	pCi/L	03/27/2025	GEL	EPA 903.1 Mod
Radium 228	0.703	pCi/L	03/27/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.28	pCi/L	04/07/2025	SLEVY	EPA 903.1 Mod
pH	7.11	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:


 Linda Williams - Manager Analytical Services

Validation date: 4/28/25

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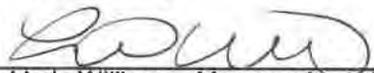
LAB CERTIFICATION #08552

Sample # AG25154 Location: GW Well WAP-23 Date: 03/06/2025 Sample Collector: MDG/DA
 Loc. Code WAP-23 Time: 09:45

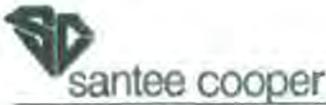
Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	538	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	166	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	348	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	4600	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	280	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	0.404	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	356	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	308	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	1668	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	1.53	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	0.819	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.35	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	6.77	SU	03/06/2025	MDG/DA	

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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LAB CERTIFICATION #08552

Sample # AG25155 Location: GW Well WAP-24 Date: 03/06/2025 Sample Collector: MDG/DA
Loc. Code WAP-24 Time: 14:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Barium	5.4	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Calcium	125	mg/L	03/25/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/25/2025	SKJACOBS	EPA 6020B
Boron	469	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	5.2	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	111	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	40.3	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	605.0	mg/L	03/21/2025	SKJACOBS	SM 2540C
Radium 226	0.538	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	0.102	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.640	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	7.27	SU	03/06/2025	MDG/DA	

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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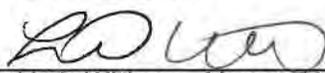
LAB CERTIFICATION #08552

Sample # AG25156 Location: GW Well WAP-25 Date: 03/07/2025 Sample Collector: MDG/DA
Loc. Code WAP-25 Time: 14:41

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Barium	9.1	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Calcium	67.2	mg/L	03/24/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Boron	26.8	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	10.8	mg/L	03/15/2025	GEL	EPA 300.0
Sulfate	<0.400	mg/L	03/15/2025	GEL	EPA 300.0
Total Dissolved Solids	322.5	mg/L	03/12/2025	SJLEVY	SM 2540C
Radium 226	0.452	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	0.178	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.630	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	7.18	SU	03/07/2025	MDG/DA	

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

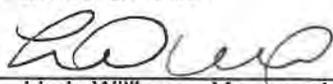
Sample # AG25157 **Location:** GW Well WAP-26 **Date:** 03/07/2025 **Sample Collector:** MDG/DA

Loc. Code WAP-26 **Time:** 13:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Barium	46.1	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Calcium	17.3	mg/L	03/24/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Boron	26.1	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	11.8	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	53.7	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	122.5	mg/L	03/12/2025	SJLEVY	SM 2540C
Radium 226	0.600	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	1.00	pCi/L	04/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.60	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod
pH	4.68	SU	03/07/2025	MDG/DA	

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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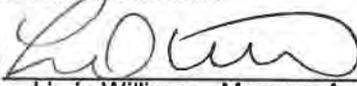
LAB CERTIFICATION #08552

Sample # AG25158 Location: GW Well WAP-26 Date: 03/07/2025 Sample Collector: MDG/DA
Loc. Code WAP-26 DUP Time: 13:05

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Barium	50.6	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Calcium	18.8	mg/L	03/24/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	03/24/2025	SKJACOBS	EPA 6020B
Boron	25.1	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Lithium	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	03/25/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	03/19/2025	EUROFINS SAV	EPA 7470
Fluoride	<0.100	mg/L	03/15/2025	GEL	EPA 300.0
Chloride	10.3	mg/L	03/17/2025	GEL	EPA 300.0
Sulfate	49.0	mg/L	03/17/2025	GEL	EPA 300.0
Total Dissolved Solids	105.0	mg/L	03/12/2025	SJLEVY	SM 2540C
Radium 226	0.589	pCi/L	04/10/2025	GEL	EPA 903.1 Mod
Radium 228	0.578	pCi/L	04/05/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.17	pCi/L	04/15/2025	SJLEVY	EPA 903.1 Mod

Comments:

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

Analysis Validated:  Validation date: 4/28/25
Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG33008 **Location:** GW Well WAP-30 **Date:** 05/14/2025 **Sample Collector:** ATH/AGP

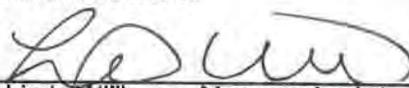
Loc. Code WAP-30 **Time:** 10:28

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Barium	99.6	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Calcium	202	mg/L	05/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Cobalt	0.60	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Antimony	6.6	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	05/21/2025	SKJACOBS	EPA 6020B
Boron	599	ug/L	05/20/2025	SKJACOBS	EPA 6010D
Lithium	12.0	ug/L	05/20/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	05/20/2025	SKJACOBS	EPA 6010D
Mercury	<0.200	ug/L	05/29/2025	EUROFINS	EPA 7470
Fluoride	<0.10	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Chloride	178	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Sulfate	74.5	mg/L	05/21/2025	AMSTOCKH	EPA 300.0
Total Dissolved Solids	8400	mg/L	05/19/2025	GJKOCENI	SM 2540C
Radium 226	1.10	pCi/L	06/09/2025	GEL	EPA 903.1 Mod
Radium 228	1.08	pCi/L	06/10/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.18	pCi/L	06/23/2025	SJLEVY	EPA 903.1 Mod
pH	6.65	SU	05/14/2025	ATH/AGP	

Comments:

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

Analysis Validated:


Linda Williams - Manager Analytical Services

Validation date: 7/22/25

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36871 Location: GW Well WAP-1 Date: 06/25/2025 Sample Collector: AGP/EA

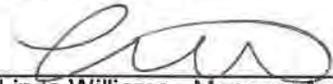
Loc. Code WAP-1 Time: 10:46

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5.7	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	36.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	6.7	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	0.94	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Antimony	5.3	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
Boron	25.5	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	8.81	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	22.6	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	55.00	mg/L	06/26/2025	JRLOTITO	SM 2540C
Radium 226	1.63	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.513	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.14	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.34	SU	06/25/2025	AGP/EA	

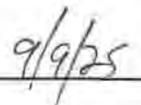
Comments:

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:



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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG36880 **Location:** GW Well WAP-9 **Date:** 06/26/2025 **Sample Collector:** AGP/EA
Loc. Code WAP-9 **Time:** 13:11

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	40.9	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	61.6	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	122	mg/L	07/21/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Cobalt	3.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	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
Boron	2020	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	67.3	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	47.3	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	319	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	550.0	mg/L	06/27/2025	GJKOCENI	SM 2540C
Radium 226	0.899	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.908	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.81	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	5.31	SU	06/26/2025	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 # AG36881 Location: GW Well WAP-10 Date: 06/26/2025 Sample Collector: AGP/EA

Loc. Code WAP-10 Time: 10:58

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	158	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	323	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	840	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
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
Boron	15500	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	116	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	1250	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	1080	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	6930	mg/L	06/27/2025	GJKOCENI	SM 2540C
Radium 226	4.86	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	2.40	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	7.26	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.57	SU	06/26/2025	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 # AG36882 **Location:** GW Well WAP-10 **Date:** 06/26/2025 **Sample Collector:** SHERRI LI
Loc. Code WAP-10 **DUP** **Time:** 11:03

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	187	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	320	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	849	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
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
Boron	15900	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	122	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	1320	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	1140	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	5230	mg/L	06/27/2025	GJKOCENI	SM 2540C
Radium 226	1.56	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	2.58	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.14	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:


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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG36894 **Location:** GW Well WAP-17 **Date:** 07/14/2025 **Sample Collector:** ATH/EA

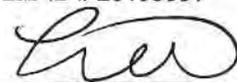
Loc. Code WAP-17 **Time:** 13:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	96.8	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	39.4	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	318	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
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
Boron	4250	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Lithium	34.3	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Molybdenum	20.6	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/15/2025	RWMIMS	EPA 300.0
Chloride	132	mg/L	07/15/2025	RWMIMS	EPA 300.0
Sulfate	795	mg/L	07/15/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1540	mg/L	07/16/2025	GJKOCENI	SM 2540C
Radium 226	0.802	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.94	pCi/L	07/31/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.74	pCi/L	08/18/2025	SJLEVY	EPA 903.1 Mod
pH	6.07	SU	07/14/2025	ATH/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

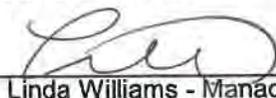
Sample # AG36895 **Location:** GW Well WAP-17 **Date:** 07/14/2025 **Sample Collector:** ATH/EA
Loc. Code WAP-17 **DUP** **Time:** 13:53

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	97.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Barium	39.2	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/29/2025	SKJACOBS	EPA 6020B
Calcium	312	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
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
Boron	4230	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Lithium	35.2	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Molybdenum	20.8	ug/L	07/22/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/15/2025	RWMIMS	EPA 300.0
Chloride	140	mg/L	07/15/2025	RWMIMS	EPA 300.0
Sulfate	866	mg/L	07/15/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1548	mg/L	07/16/2025	GJKOCENI	SM 2540C
Radium 226	0.987	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.67	pCi/L	07/31/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.66	pCi/L	08/18/2025	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

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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552
Sample # AG36896 **Location:** GW Well WAP-18 **Date:** 07/08/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-18 **Time:** 11:14

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	63.3	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	36.6	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	32.6	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	372	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	43.7	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	279	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	0.14	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	9.26	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	46.1	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	210.0	mg/L	07/10/2025	GJKOCENI	SM 2540C
Radium 226	0.381	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	0.589	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.970	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	5.53	SU	07/08/2025	AGP/EA	

Comments:

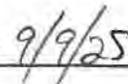
Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

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 # AG36897 Location: GW Well WAP-19 Date: 07/07/2025 Sample Collector: AGP/EA

Loc. Code WAP-19 Time: 10:07

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	118	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	58.6	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	655	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	0.65	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	4900	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	571	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	11.4	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	0.29	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	52.9	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	1520	mg/L	07/23/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	2655	mg/L	07/08/2025	JRLOTITO	SM 2540C
Radium 226	1.08	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	2.27	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.35	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.40	SU	07/07/2025	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

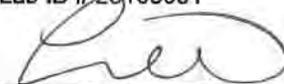
Sample # AG36899 **Location:** GW Well WAP-21 **Date:** 07/08/2025 **Sample Collector:** AGP/EA
Loc. Code WAP-21 **Time:** 09:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	6.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	47.7	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	117	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	0.95	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	4120	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	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	112	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	3.32	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	625.0	mg/L	07/10/2025	GJKOCENI	SM 2540C
Radium 226	0.650	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	1.36	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.01	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.13	SU	07/08/2025	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 & Calcot, 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 # AG36906 **Location:** GW Well WAP-27 **Date:** 07/07/2025 **Sample Collector:** AGP/EA

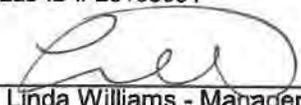
Loc. Code WAP-27 **Time:** 12:30

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	109	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	179	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	209	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	3120	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	49.9	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	444	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	69.4	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1620	mg/L	07/08/2025	JRLOTITO	SM 2540C
Radium 226	0.898	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	1.74	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.64	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.16	SU	07/07/2025	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 # AG36910 **Location:** GW Well WAP-30 **Date:** 07/07/2025 **Sample Collector:** AGP/EA
Loc. Code WAP-30 **Time:** 13:28

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	97.9	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	196	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	602	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	13.5	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	171	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	68.8	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	895.0	mg/L	07/08/2025	JRLOTITO	SM 2540C
Radium 226	0.815	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	2.11	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.93	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.63	SU	07/07/2025	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 # AG36911 **Location:** GW Well WBW-1 **Date:** 06/25/2025 **Sample Collector:** AGP/EA

Loc. Code WBW-1 **Time:** 09:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	22.2	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	1.4	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	22.8	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	2.40	mg/L	07/07/2025	RWMIMS	EPA 300.0
Sulfate	6.11	mg/L	07/07/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	30.00	mg/L	06/26/2025	JRLOTITO	SM 2540C
Radium 226	0.248	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	1.99	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.24	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	3.78	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:

9/9/25

Authorized Signature Only- Not Valid Unless Signed



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36900 Location: GW Well WAP-22 Date: 07/08/2025 Sample Collector: AGP/EA

Loc. Code WAP-22 Time: 12:22

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	67.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	169	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	1190	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	16.7	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	103	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	93.4	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	650.0	mg/L	07/10/2025	GJKOCENI	SM 2540C
Radium 226	0.973	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	1.23	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.20	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.90	SU	07/08/2025	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 # AG36901 **Location:** GW Well WAP-23 **Date:** 07/07/2025 **Sample Collector:** AGP/EA

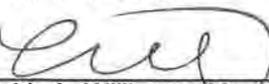
Loc. Code WAP-23 **Time:** 11:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	394	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Barium	152	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Calcium	322	mg/L	07/23/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	07/23/2025	SKJACOBS	EPA 6020B
Boron	4400	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	223	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/24/2025	EUROFINS ATL	EPA 7470
Fluoride	0.31	mg/L	07/09/2025	RWMIMS	EPA 300.0
Chloride	370	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	290	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1625	mg/L	07/08/2025	JRLOTITO	SM 2540C
Radium 226	1.79	pCi/L	08/06/2025	GEL	EPA 903.1 Mod
Radium 228	1.27	pCi/L	07/29/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.06	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	6.81	SU	07/07/2025	AGP/EA	

Comments:

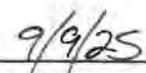
Independent Laboratory Results: "GEL" - GEL Laboratories LLC - Lab ID # 10120; "Test America" - TestAmerica Laboratories, Inc. - Lab ID# 98001; "DavisBrown"- Davis & Brown Lab ID # 21117; "Shealy"- Shealy Environmental Services, Inc.- Lab ID# 32010 "ROGERSCALLCO"- Rogers & Callcot, Inc.- Lab ID # 23105001

Analysis Validated:



Linda Williams - Manager Analytical Services

Validation date:


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SANTEE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

Sample # AG36902 **Location:** GW Well WAP-24 **Date:** 06/26/2025 **Sample Collector:** AGP/EA
Loc. Code WAP-24 **Time:** 12:09

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Barium	5.6	ug/L	07/21/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/22/2025	SKJACOBS	EPA 6020B
Calcium	123	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
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
Boron	446	ug/L	07/16/2025	SKJACOBS	EPA 6010D
Lithium	8.18	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	07/09/2025	RWMIMS	EPA 300.0
Chloride	113	mg/L	07/09/2025	RWMIMS	EPA 300.0
Sulfate	38.1	mg/L	07/09/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	582.5	mg/L	06/27/2025	GJKOCENI	SM 2540C
Radium 226	0.331	pCi/L	07/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.493	pCi/L	07/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.824	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	7.25	SU	06/26/2025	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 # AG36903 **Location:** GW Well WAP-25 **Date:** 07/10/2025 **Sample Collector:** AGP/EA

Loc. Code WAP-25 **Time:** 10:13

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Barium	9.1	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Calcium	66.9	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
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
Boron	24.8	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Lithium	6.95	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	07/17/2025	SKJACOBS	EPA 6010D
Mercury	<0.2	ug/L	07/31/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/14/2025	RWMIMS	EPA 300.0
Chloride	11.1	mg/L	07/14/2025	RWMIMS	EPA 300.0
Sulfate	10.6	mg/L	07/14/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	257.5	mg/L	07/11/2025	GJKOCENI	SM 2540C
Radium 226	0.294	pCi/L	08/13/2025	GEL	EPA 903.1 Mod
Radium 228	0.736	pCi/L	08/04/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.03	pCi/L	08/18/2025	SJLEVY	EPA 903.1 Mod
pH	6.95	SU	07/10/2025	AGP/EA	

Comments:

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

Analysis Validated:

Linda Williams - Manager Analytical Services

Validation date: 9/9/25

Authorized Signature Only- Not Valid Unless Signed



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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

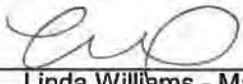
LAB CERTIFICATION #08552

Sample # AG36904 **Location:** GW Well WAP-26 **Date:** 07/09/2025 **Sample Collector:** AGP/EA
Loc. Code WAP-26 **Time:** 15:50

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Barium	70.7	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Calcium	48.7	mg/L	07/29/2025	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
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
Boron	27.9	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	07/25/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/14/2025	RWMIMS	EPA 300.0
Chloride	10.1	mg/L	07/14/2025	RWMIMS	EPA 300.0
Sulfate	136	mg/L	07/15/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	230.0	mg/L	07/10/2025	GJKOCENI	SM 2540C
Radium 226	0.867	pCi/L	08/04/2025	GEL	EPA 903.1 Mod
Radium 228	0.553	pCi/L	08/04/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.42	pCi/L	08/07/2025	SJLEVY	EPA 903.1 Mod
pH	4.95	SU	07/09/2025	AGP/EA	

Comments:

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

Analysis Validated:  Validation date: 9/9/25
 Linda Williams - Manager Analytical Services

Authorized Signature Only- Not Valid Unless Signed



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

SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AG36905 **Location:** GW Well WAP-26 **Date:** 07/09/2025 **Sample Collector:** AGP/EA
Loc. Code WAP-26 **DUP** **Time:** 15:55

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Barium	72.7	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	07/28/2025	SKJACOBS	EPA 6020B
Calcium	50.7	mg/L	07/29/2025	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
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
Boron	28.1	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	07/25/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	07/15/2025	RWMIMS	EPA 300.0
Chloride	10.2	mg/L	07/15/2025	RWMIMS	EPA 300.0
Sulfate	133	mg/L	07/15/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	232.5	mg/L	07/10/2025	GJKOCENI	SM 2540C
Radium 226	0.338	pCi/L	08/04/2025	GEL	EPA 903.1 Mod
Radium 228	1.26	pCi/L	08/04/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.60	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 # AG50069 **Location:** GW Well WAP-9 **Date:** 10/29/2025 **Sample Collector:**
Loc. Code WAP-9 **Field Parameters Only** **Time:** 00:00

Analysis	Result	Units	Test Date	Analyst	Method
pH	5.70	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

SANTÉE COOPER ANALYTICAL SERVICES
CERTIFICATE OF ANALYSIS
LAB CERTIFICATION #08552

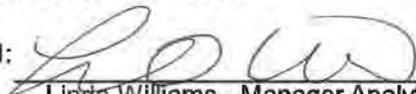
Sample # AG50070 Location: GW Well WAP-10 Date: 10/29/2025 Sample Collector: CG/JR
Loc. Code WAP-10 Time: 11:52

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	27.7	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Lithium	98.8	ug/L	11/10/2025	SKJACOBS	EPA 6010D
pH	6.55	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 # AG50071 **Location:** GW Well WAP-10 **Date:** 10/29/2025 **Sample Collector:** CG/JR
Loc. Code WAP-10 **DUP** **Time:** 11:57

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	30.7	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Lithium	101	ug/L	11/10/2025	SKJACOBS	EPA 6010D

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

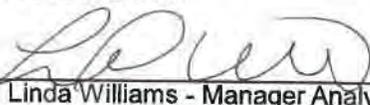
Sample # AG48915 **Location:** GW Well WAP-30 **Date:** 10/14/2025 **Sample Collector:** CG/MG/JR
Loc. Code WAP-30 **Time:** 11:16

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<5.0	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Barium	130	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Beryllium	<0.5	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Calcium	251	mg/L	11/10/2025	SKJACOBS	EPA 6020B
Cadmium	<0.5	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Cobalt	<0.5	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Chromium	<5.0	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Lead	<1.0	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Antimony	<5.0	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Selenium	<10.0	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Thallium	<1.0	ug/L	11/10/2025	SKJACOBS	EPA 6020B
Boron	991	ug/L	11/10/2025	SKJACOBS	EPA 6010D
Lithium	13.1	ug/L	11/10/2025	SKJACOBS	EPA 6010D
Molybdenum	<5.0	ug/L	11/10/2025	SKJACOBS	EPA 6010D
Mercury	0.567	ug/L	11/03/2025	EUROFINS ATL	EPA 7470
Fluoride	<0.10	mg/L	10/20/2025	RWMIMS	EPA 300.0
Chloride	208	mg/L	10/20/2025	RWMIMS	EPA 300.0
Sulfate	125	mg/L	10/20/2025	RWMIMS	EPA 300.0
Total Dissolved Solids	1025	mg/L	10/20/2025	DCCOLLIN	SM 2540C
Radium 226	2.32	pCi/L	11/12/2025	GEL	EPA 903.1 Mod
Radium 228	0.679	pCi/L	11/11/2025	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.00	pCi/L	12/04/2025	SJLEVY	EPA 903.1 Mod
pH	6.51	SU	10/14/2025	CG/MG/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: 12/15/25

Authorized Signature Only- Not Valid Unless Signed

(WAP- 12, 13, 14, 15,
16, 20, 21, 27, 28,
28R & 29 (Duplicates
WAP-12 & 14)

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		Date	By	Time	Matrix	Sample Type	Bottle Type (Glass/Plastic)	Preservative	Sample Analysis Requested (Method)					Comments	Temperature Checks: Internal Use Only							
		Date	Time								As	Ba	Be	Ca	Cd		Co	Cr	Pb	Sb	Se	Tl	TEMP (°C)	INIT
A625136	WAP-12	3/7/25	1125		MDH		G	GW	7			2	1	1	2				*E dated date from LW add only					
A625137	WAP-12 Dup	3/6/25	1300						7			2	1	1	2				Sample not homogenous for RAP bottles this location					
A625152	WAP-21	3/6/25	1300						2			2	1	1	2				* WAP-21 went bad we should collect all the bottles.					
A627580	WAP-21	3/7/25	0918						5			2	1	1	2				Assigned (remanded) for redon (3/7/25)					

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)

Start Date/Time: 3/11/25
End Date/Time: 3/10/25

Matrix Code: GW-Groundwater, BW-Surface Water, WW-Wastewater, SW-Sewerage Water, LW-Limestone, O-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, HA-Heavy Ash, M-Misc (Specify)
Bottom Ash, M-Misc (Specify)
Bottle Type: (G) Glass (P) Plastic
Sample Type: (G) Grab, (C) Composite
Date/Time/Int: GEL 3/10/25
Received by: (From Person / Lockbox) 35466
Received by: (From Person / Lockbox)
Received by: (From Person / Lockbox)

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

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, Cr-VI
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
Sieve Analysis
Pulverizer Fineness
Particulate Matter Analysis

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
Dissolved Metals: As, Fe
pH

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

Chain of Custody

Customer/Scnd Report To: **Melanie Goings/A203**

Need Results By (Date Needed): **3 Weeks**

Project/Task/Unit # **125915 JM02.08.G01.3 / 36500**

Contract Lab Due Date (Lab Only):

Labworks ID Number	Sample Location / Description	Collection		By	Preservative	Sample Analysis Requested (Method)		Temperature Checks: Internal Use Only
		Date	Time			Bottle Type (Glass/Plastic)	Number of Containers	
AG25131	WAP-9	2/25/25	182	MDY/SB	1	1	1	INIT
AG25132	WAP-9 F	1450			P	P	P	TEMP (°C) 0.6
AG25133	WAP-10	1345			P	P	P	Comments
AG25134	WAP-10 Dup	1350			P	P	P	Low sample volume Rad 226 bottle

Spectrum Lot # 1124081
 Batch # 20250213-01
 1:1 Nitric Acid (HNO3)
 2/26/25 @ 1110 SJL

Matrix Code	GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, OC-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-	Bottom Ash, M-Misc (Specify)			
Matrix Code	GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, OC-Oil, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-	Bottom Ash, M-Misc (Specify)			
Preservative used: 1-4°C, 2-HNO ₃ , 3-H ₂ SO ₄ , 4-HCl, 5-Na ₂ S ₂ O ₈ , 6-Other (Specify)					
Relinquished by: (To Person / Lockbox)	Correct pH: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Employee #	Date	Time	Received by: (From Person / Lockbox)
Relinquished by: (To Person / Lockbox)		36837	2/26/25	0705	36851
Relinquished by: (To Person / Lockbox)					

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

Metals: Ag, Al, As, B, 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, Tl, CrVI
Dissolved Metals: As, Fe
 pH
 Rad 226, Rad 228
 Oil & Grease
 E.coli, Total Coliform

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
 Sieve Analysis
 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

✓ 5/21

Winyah
NPDES/
CCR/LF

Chain of Custody

(WAP-1 & 7
and
WBW-1)

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):

Temperature Checks: Internal Use Only

TEMP (°C)

INIT

2.1 5/21

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

Labworks ID Number	Sample Location / Description	Collection		By
		Date	Time	
A925164	WBW-1	2/18/25	1118	max SCTA
A925121	WAP-1	2/19/25	1229	max SCTA

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, D-Dirt, S-Soil, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Describe in Comments)	Preservative used: 1-4°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-Na2S2O8, 6-Other (Specify)	Bottle Type: (G) Glass (P) Plastic	Sample Type: (G) Grab (C) Composite	Date/Time/Int	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #	Date	Time	Received by: (From Person / Lockbox)	Employee #
				6-EL	1/10/25											

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
2/17/25 e 0925 5/21

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

Date	Time
2/19/25	0715

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

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, Tl, CrVI

Dissolved Metals:

As, Fe
pH

Coal Short Prox:

% Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs, Volatile Matter, CHN
XRF Scan
Sieve Analysis

Oil Quality:

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



Chain of Custody

Winyah
 CCR CMA NE ASD
 (WAP- 14A, 14B, 14C,
 22, 23, 24, 25, & 26, 30
 with Duplicate WAP-26)

Customer/Send Report To: **Melanie Goings/A203**

Need Results By (Date Needed): **3 Weeks**

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

Contract Lab Due Date (Lab Only):

Labworks ID Number	Sample Location / Description	Collection		By	Matrix	Sample Type	Preservative		Sample Analysis Requested (Method)		Temperature Checks: Internal Use Only	
		Date	Time				Bottle Type (Glass/Plastic)	Number of Containers	As, Pb, Sb, Se, Ti, Cd, Co	B, Li, Mo, Hg		TDS
AG 25156	WAP-25	3/7/25	1441	<i>Melanie Goings</i>	G	GW	1	1	1	1	0.8	<i>l</i>
AG 25157	WAP-26	3/7/25	1300	<i>Melanie Goings</i>	d	d	1	1	1	1		
AG 25158	WAP-26 Dup	3/7/25	1305	<i>Melanie Goings</i>	d	d	1	1	1	1		<i>5000 date/time LW + add analy</i>
<p>Matrix Code: GW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, DC-Drum Sol, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA-Bottom Ash, M-Misc (Specify)</p> <p>Preservation used: 1-4°C, 2-HNO₃, 3-H₂SO₄, 4-HCl, 5-NaOH, 6-Other (Specify)</p> <p>Bottle Type: (G) Glass, (P) Plastic</p> <p>Sample Type: (G) Grab, (C) Composite</p> <p>Temperature Checks: Internal Use Only</p> <p>TEMP (°C): 0.8</p> <p>INIT: <i>l</i></p> <p>Comments: <i>5000 date/time LW + add analy</i></p> <p>Spectrum Lot # 1124081 Batch # 20250213-01 1:1 Nitric Acid (HNO3) <i>santee cooper 3/11/25 l</i></p> <p>Composite Samples:</p> <p>Start Date/Time: 3/10/25</p> <p>End Date/Time: 0743</p> <p>Relinquished by: (To Person / Lockbox) <i>Melanie Goings</i> Date: 3/10/25 Employee # 32927</p> <p>Relinquished by: (To Person / Lockbox) <i>Melanie Goings</i> Date: 3/10/25 Employee # 35466</p> <p>Relinquished by: (To Person / Lockbox) Date: Employee #</p>												

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

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
 Sieve Analysis

Particulate Matter Analysis
 Pulverizer Fineness

Oil Quality: % Moisture, Color, Acidity
 Dielectric Strength, Interfacial Tension
 Density
 Topas: 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

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

Contract Lab Due Date (Lab Only):

Labworks ID Number	Sample Location / Description	Collection		Matrix	Number of Containers	Sample Analysis Requested (Method)					Temperature Checks: Internal Use Only	
		Date	Time			By	Preservative	Bottle Type (Glass/Plastic)	Sample Type	B, Li, Mo, Hg		TDS
AG25154	WAP-23	3/6/25	0945	MAG	7	As, Pb, Sb, Se, Ti, Cr, Cd, Ca, Co	GW	1	1	1	1	INIT
AG25155	WAP-24	3/6/25	1439	MAG	7		P	1	1	1	1	77+
AG25163	WAP-30	3/6/25	1149	MAG	7		P	1	1	1	1	

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
Serial Code: 317125E 0809 TH

Matrix Code	GW	Groundwater	DW	Drinking Water	SW	Surface Water	WW	Wastewater	BW	Boiler Water	L	Limestone	O	Oil	S	Soil	SL	Solid	C	Coal	G	Gas	CP	Coal	FA	Fly Ash	BA		
Preservative Used:	1-4°C	2-HNO3	3-H2SO4	4-HCl	5-Na2S2O8	6-Other (Specify)	Bottom Ash	M-Misc (Describe in Comments)	Bottle Type: (G) Glass (P) Plastic	Date/Time/Int	GEL	V	10/25	Sample Type: (G) Grab (C) Composite	Start Date/Time:	End Date/Time:	Employee #	36140	Received by: (From Person / Lockbox)	4 Silimotti	Time	3/7/25	0741	Employee #	36140	Received by: (From Person / Lockbox)	Time	3/7/25	0741

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

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 Finesness
Particulate Matter Analysis

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

Chain of Custody

Melanie Goings/A203

3 Weeks

125915 JM02.08.G01.3 / 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		By
		Date	Time	
AG36881	WAP-10	6/26/25	1058	AGP/EA
AG36882	WAP-10 Dup	6/26/25	1103	AGP/EA
AG36880	WAP-4	6/26/25	1311	AGP/EA
AG36874	WAP-3	6/26/25	1424	AGP/EA
AG36875	WAP-4	6/26/25	1533	AGP/EA

Preservative	Sample Analysis Requested (Method)			
	Bottle Type (Glass/Plastic)	B, Li, Mo, Hg	TDS	F, Cl, SO4
1	1	1	1	1
P	P	P	P	P
Sample Type	Number of Containers	Fill in the Number of Containers for each Test		
Grab/Comp	Matrix	2	1	1
G	GW	7	1	1
G	GW	7	1	1
G	GW	7	1	1
G	GW	7	1	1
G	GW	7	1	1
G	GW	7	1	1

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
2.3	77

Comments

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
6/27/25 @ 0900
JEL

Matrix Code	GW-Groundwater	DW-Drinking Water	SW-Surface Water	WW-Wastewater	BW-Boiler Water	L-Limestone	O-Oil	S-Soil	SL-Solid	C-Coal	G-Gypsum	PA-Plastic	BA-Bottom Ash	M-Misc (Specify)
Preservative Record	Correct pH:	Yes	No	If preserved, Lot#	220325000/4610944	Date/Time/Int	5/25/25	Sample Type:	(G) Grab, (C) Composite	Start Date/Time:	6/27/25	End Date/Time:	6/27/25	Time
Relinquished by:	(To Person / Lockbox)	33361	6/27/25	824	Time	Received by:	(From Person / Lockbox)	36851	Employee #	6/27/25	Time	6/27/25	Time	
Relinquished by:	(To Person / Lockbox)				Time	Received by:	(From Person / Lockbox)		Employee #					
Relinquished by:	(To Person / Lockbox)				Time	Received by:	(From Person / Lockbox)		Employee #					

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

Metals: Ag, Al, As, B, Be, Ba, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Ni, Pb, 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, LOL, Purity (CaCO3), % Moisture
Flyash: Ammonia, LOL, % Carbon, Free CaO, Mineral Analysis
Coal Short Prox: % Moisture, Ash, Sulfur, BTUs
Coal Ultimate: % Moisture, Ash, Sulfur, BTUs, Volatile Matter, CHN
XRF Scan
 Sieve Analysis
 Pulverizer Fineness
 Particulate Matter Analysis

Oil Quality: % Moisture, Color, Acidity
Dielectric Strength, Interfacial Tension
Density
Topgas: 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

Winyan
CCR
Area 2 Class 3
LF

(WAP-17, 18, 19, WLF-A2-1, 2, 6, and Duplicate WAP-17 and WLF-A2-6 and field blanks for WLF-A2-6 and WAP-19)

Customer/Send Report To: **Melanie Goings/A203**

Need Results By (Date Needed): **3 Weeks**

Project/Task/Unit #: **125915 JM02.08.G01.1 / 36500**

Contract Lab Due Date (Lab Only):

Labworks ID Number	Sample Location / Description	Collection		Bv	Matrix	Grab/Comp	Number of Containers	Sample Analysis Requested (Method)				Comments
		Date	Time					Preservative	Bottle Type (Glass/Plastic)	Sample Type	Fill in the Number of Containers for each Test	
AG36897	WAP-19	7/7/25	1007	AG/EA	G	GW	7	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	
AG36929	WAP-19 F	7/7/25	1012	AG/EA	G	GW	7	B, Li, Mo, Hg	TDS	F, Cl, SO4	Ra 226, Ra 228	

Temperature Checks: Internal Use Only

TEMP (°C) INIT

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

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5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

5.1 5.1

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)

Composite Samples:

Start Date/Time:

End Date/Time:

Date

Time

Employee #

Date

Time

Employee #

Date

Time

Employee #

Date

Time

Employee #

Date

Time

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

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

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

Matrix: GEL 5/25/25
Received by: (From Person / Lockbox)
Time
Date
Employee #

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

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	Grab/Comp	Matrix	Number of Containers	Bottle Type (Glass/Plastic)		Sample Type			
A636902	WAP-24	6/27/25	1204	AGP	GW	7	2	1	1	1	2.3	INIT	777	
<p>Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, UOH, S-Soil, SL-Solid, C-Coal, G-Gypsum, FA-Fly Ash, BA- Bottom Ash, M-Misc (Describe in Comments)</p> <p>Preservation Used: 1-<4°C, 2-HNO₃, 3-H₂SO₄, 4-HCl, 5-Na₂S₂O₈, 6-Other (Specify)</p> <p>Bottle Type: (G) Glass (P) Plastic Date/Time/Int GEL 5/25/25 Sample Type: (G) Grab, (C) Composite</p>														
Preservative Record		Correct pH:	<input checked="" type="radio"/> Yes <input type="radio"/> No											
Relinquished by: (To Person / Lockbox)		Employee #	38361	Date	6/27/25	Time	825	Received by: (From Person / Lockbox)	Employee #	36851	Date	6/27/25	Time	0825
Relinquished by: (To Person / Lockbox)		Employee #		Date		Time		Received by: (From Person / Lockbox)	Employee #		Date		Time	
Relinquished by: (To Person / Lockbox)		Employee #		Date		Time		Received by: (From Person / Lockbox)	Employee #		Date		Time	

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
Santee Cooper 6/27/25 0900
JKL

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

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

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

- Wallboard Gyp: ATM, 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
- Particle Matter Analysis

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



santee cooper

Chain of Custody

CCR Winyah
Area 2 Class 3
LF

(WAP-17, 18, 19, WLF-A2-1, 2, 6,
and Duplicate WAP-17 and WLF-
A2-6 and field blanks for WLF-
A2-6 and WAP-19)

Customer/Send Report To: Melanie Goings/A203

Need Results By (Date Needed): 3 Weeks

Project/Task/Unit # 125915 JM02.08.G01.1 / 36500

Contract Lab Due Date (Lab Only): _____

Temperature Checks: Internal Use Only

TEMP (°C)	INIT
5.6	STL
Comments	

Labworks ID Number	Sample Location / Description	Collection		Preservative	Bottle Type (Glass/Plastic)	Sample Type	Number of Containers	Sample Analysis Requested (Method)		Temperature Checks: Internal Use Only	
		Date	Time					By	Fill in the Number of Containers for each Test		
AG25173	WLF-A2-1	3/4/2025	1004	BW	GW	7	1	1	1	1	2
AG25174	WLF-A2-2	3/4/2025	1103	BW	GW	7	1	1	1	1	2
AG25146	WAP-17	3/4/2025	1900	BW	GW	7	1	1	1	1	2
AG25147	WAP-17 Dup	3/4/2025	1905	BW	GW	7	1	1	1	1	2
AG25149	WAP-19	3/4/2025	1405	BW	GW	7	1	1	1	1	2
AG25150	WAP-19 F	3/4/2025	1410	BW	GW	7	1	1	1	1	2

Spectrum Lot # 1124081
Batch # 20250213-01
1:1 Nitric Acid (HNO3)
3/5/25 STL

Composite Samples:

Start Date/Time: _____

End Date/Time: _____

Date: 3/5/25

Time: 0805

Date: _____

Time: _____

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, O-Oil, S-Soil, SL-Solid, C-Cool, G-Gypsum, FA-Fly Ash, BA-

Preservation used: 1-4°C, 2-HNO₃, 4-H₂SO₄, 4-HCl, 5-Na₂S₂O₅, 6-Other (Specify)

Bottom Ash, M-Misc (Describe in Comments)

Bottle Type: (G) Glass (P) Plastic

Date/Time/Int: 2:35:58 16 / 1107201 J

GEL 1/10/25

Received by: (From Person / Lockbox) _____

Employee # 37401

Date 3/5/2025

Received by: (From Person / Lockbox) _____

Employee # 35574

Date 3/5/25

Received by: (From Person / Lockbox) _____

Employee # _____

Date _____

Received by: (From Person / Lockbox) _____

Employee # _____

Date _____

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

- 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, Particulate 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
- Steve Analysis
- Particulate Matter Analysis

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



Chain of Custody

Winyah
Confirmation Sampling
(WLF-A1-2, WLF-A2-6
and WAP-10 with
duplicate)

Customer/Send Report To: **Melanie Goings/A203**
Need Results By (Date Needed): **3 Weeks**
Project/Task/Unit #: **125915 JM02.09.G01.1 / 36110**

Contract Lab Due Date (Lab Only):

Labworks ID Number	Sample Location / Description	Collection	
		Date	Time
WLF-A1-2	AG50064	10/29/25	1339
WLF-A2-6	AG50068	10/29/25	1039
WAP-10	AG50070	10/29/25	1152
WAP-10 duplicate	AG50071	10/29/25	1157

Sample Type	Bottle Type (Glass/Plastic)	Sample Analysis Requested (Method)					Temperature Checks: Internal Use Only	
		As and LI	TDS	Cl, SO4	INIT	Comments		
Grb/Comp	G	1	1	1	1	1	TEMP (°C) 3.2	INIT
Matrix	G	1	1	1	1	1	3.2	5.1
Grb/Comp	G	1	1	1	1	1		
Grb/Comp	G	1	1	1	1	1		
Grb/Comp	G	1	1	1	1	1		

Matrix Code	GW-Groundwater	DW-Drinking Water	SW-Surface Water	WW-Wastewater	BW-Boiler Water	L-Limestone	G-Gl	S-Soil	SI-Solid	C-Coal	G-Gypsum	FA-Hy	Ash	BA-
WLF-A1-2	GW													
WLF-A2-6	GW													
WAP-10	GW													
WAP-10 duplicate	GW													

Sample Type	Received by: (From Person / Lockbox)	Date	Time	Employee #
Grb/Comp	38548	10/29/25	1501	38548
Matrix				
Grb/Comp				
Grb/Comp				

Spectrum Lot # 1125040
Batch # 20250730-01
1:1 Nitric Acid (HNO3)
10/30/25 e.0745 DC

Composite Samples:

Start Date/Time:

End Date/Time:

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

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

Dissolved Metals: As, Fe, pH

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

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, G-Gl, S-Soil, SI-Solid, C-Coal, G-Gypsum, FA-Hy, Ash, BA-

Bottom: Ash, M-Misc (Describe in Comments)

Preservation used: 1-1°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-Na2S2O8, 6-Other (Specify)

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, G-Gl, S-Soil, SI-Solid, C-Coal, G-Gypsum, FA-Hy, Ash, BA-

Bottom: Ash, M-Misc (Describe in Comments)

Preservation used: 1-1°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-Na2S2O8, 6-Other (Specify)

Matrix Code: GW-Groundwater, DW-Drinking Water, SW-Surface Water, WW-Wastewater, BW-Boiler Water, L-Limestone, G-Gl, S-Soil, SI-Solid, C-Coal, G-Gypsum, FA-Hy, Ash, BA-

Bottom: Ash, M-Misc (Describe in Comments)

Preservation used: 1-1°C, 2-HNO3, 3-H2SO4, 4-HCl, 5-Na2S2O8, 6-Other (Specify)

 **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

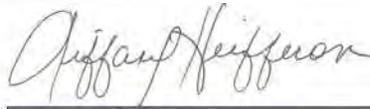
Eurofins Savannah

Job Notes

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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

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

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



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.

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

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

Client Sample Results

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

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

Client Sample Results

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

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.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
- 2
- 3
- 4
- 5
- 6
- 7
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- 13
- 14

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

Client Sample Results

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

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

QC Sample Results

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

Eurofins Savannah

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 1

Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02-DT-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
AG25159	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								
AG25129	WAP-7	2/25/25	1142	MDG SB							
AG25153	WAP-22	2/27/25	1219	ATH SB							



680-262767 Chain of Custody

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
<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"/> S(4)	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	<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"/> Volatile <input type="checkbox"/> Ethers <input type="checkbox"/> Acrylic <input type="checkbox"/> Petroleum Products <input type="checkbox"/> BT <input type="checkbox"/> Dispersed phases Used Oil <input type="checkbox"/> Hydrocarbons <input type="checkbox"/> Microscopic Particles <input type="checkbox"/> SI (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"/> Metals (All) Ag, Al, As, B, Ba, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cu, F, Fe, G, H, Hg, I, K, Li, Mn, Mg, Mo, Ni, N, O, Pb, P, Pt, Rb, S, Se, Si, Sr, Tl, Ti, U, V, W, Zn, Zr

Relinquished by: <u>Sherri Levy</u>	Employee # <u>35574</u>	Received by: <u>FED-EX</u>	Employee # <u>-</u>	Date <u>3/12/25</u>	Time <u>1030</u>	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: _____
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by: <u>C. M. ...</u>	Employee #	Date <u>3/13/25</u>	Time <u>0930</u>	
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=Na2S2O5 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 </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

Job ID: 680-262767-1

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
- 3
- 4
- 5
- 6
- 7
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- 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 7/25/2025 4:16:02 PM

JOB DESCRIPTION

125915/jm02.08.g01.1/36500

JOB NUMBER

705-36875-1

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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7/25/2025 4:16:02 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/jm02.08.g01.1/36500

Job ID: 705-36875-1

Job ID: 705-36875-1

Eurofins Atlanta

Job Narrative 705-36875-1

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 7/16/2025 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.5°C.

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: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Client Sample ID: AG36897 **Lab Sample ID: 705-36875-1**

No Detections.

Client Sample ID: AG36929 **Lab Sample ID: 705-36875-2**

No Detections.

Client Sample ID: AG36921 **Lab Sample ID: 705-36875-3**

No Detections.

Client Sample ID: AG36922 **Lab Sample ID: 705-36875-4**

No Detections.

Client Sample ID: AG36931 **Lab Sample ID: 705-36875-5**

No Detections.

Client Sample ID: AG36901 **Lab Sample ID: 705-36875-6**

No Detections.

Client Sample ID: AG36910 **Lab Sample ID: 705-36875-7**

No Detections.

Client Sample ID: AG36906 **Lab Sample ID: 705-36875-8**

No Detections.

Client Sample ID: AG36896 **Lab Sample ID: 705-36875-9**

No Detections.

Client Sample ID: AG36899 **Lab Sample ID: 705-36875-10**

No Detections.

Client Sample ID: AG36892 **Lab Sample ID: 705-36875-11**

No Detections.

Client Sample ID: AG36909 **Lab Sample ID: 705-36875-12**

No Detections.

Client Sample ID: AG36900 **Lab Sample ID: 705-36875-13**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-36875-1	AG36897	Water	07/07/25 10:07	07/16/25 09:45
705-36875-2	AG36929	Water	07/07/25 10:12	07/16/25 09:45
705-36875-3	AG36921	Water	07/07/25 15:20	07/16/25 09:45
705-36875-4	AG36922	Water	07/07/25 15:25	07/16/25 09:45
705-36875-5	AG36931	Water	07/07/25 15:25	07/16/25 09:45
705-36875-6	AG36901	Water	07/07/25 11:37	07/16/25 09:45
705-36875-7	AG36910	Water	07/07/25 13:28	07/16/25 09:45
705-36875-8	AG36906	Water	07/07/25 12:30	07/16/25 09:45
705-36875-9	AG36896	Water	07/08/25 11:14	07/16/25 09:45
705-36875-10	AG36899	Water	07/08/25 09:25	07/16/25 09:45
705-36875-11	AG36892	Water	07/08/25 13:40	07/16/25 09:45
705-36875-12	AG36909	Water	07/08/25 14:34	07/16/25 09:45
705-36875-13	AG36900	Water	07/08/25 12:22	07/16/25 09:45



Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

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

Protocol References:

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

Laboratory References:

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



Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Glossary

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Client Sample ID: AG36897

Date Collected: 07/07/25 10:07

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-1

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:05	1

Client Sample ID: AG36929

Date Collected: 07/07/25 10:12

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-2

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:16	1

Client Sample ID: AG36921

Date Collected: 07/07/25 15:20

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-3

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:20	1

Client Sample ID: AG36922

Date Collected: 07/07/25 15:25

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-4

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:24	1

Client Sample ID: AG36931

Date Collected: 07/07/25 15:25

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-5

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:28	1

Client Sample ID: AG36901

Date Collected: 07/07/25 11:37

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-6

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:32	1

Client Sample ID: AG36910

Date Collected: 07/07/25 13:28

Date Received: 07/16/25 09:45

Lab Sample ID: 705-36875-7

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:47	1

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Client Sample ID: AG36906

Lab Sample ID: 705-36875-8

Date Collected: 07/07/25 12:30

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:51	1

Client Sample ID: AG36896

Lab Sample ID: 705-36875-9

Date Collected: 07/08/25 11:14

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:55	1

Client Sample ID: AG36899

Lab Sample ID: 705-36875-10

Date Collected: 07/08/25 09:25

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 19:59	1

Client Sample ID: AG36892

Lab Sample ID: 705-36875-11

Date Collected: 07/08/25 13:40

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 20:03	1

Client Sample ID: AG36909

Lab Sample ID: 705-36875-12

Date Collected: 07/08/25 14:34

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 20:07	1

Client Sample ID: AG36900

Lab Sample ID: 705-36875-13

Date Collected: 07/08/25 12:22

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 20:11	1

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Metals

Prep Batch: 70066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-36875-1	AG36897	Total/NA	Water	7470A	
705-36875-2	AG36929	Total/NA	Water	7470A	
705-36875-3	AG36921	Total/NA	Water	7470A	
705-36875-4	AG36922	Total/NA	Water	7470A	
705-36875-5	AG36931	Total/NA	Water	7470A	
705-36875-6	AG36901	Total/NA	Water	7470A	
705-36875-7	AG36910	Total/NA	Water	7470A	
705-36875-8	AG36906	Total/NA	Water	7470A	
705-36875-9	AG36896	Total/NA	Water	7470A	
705-36875-10	AG36899	Total/NA	Water	7470A	
705-36875-11	AG36892	Total/NA	Water	7470A	
705-36875-12	AG36909	Total/NA	Water	7470A	
705-36875-13	AG36900	Total/NA	Water	7470A	
MB 705-70066/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-70066/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-36875-1 MS	AG36897	Total/NA	Water	7470A	
705-36875-1 MSD	AG36897	Total/NA	Water	7470A	

Analysis Batch: 70195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-36875-1	AG36897	Total/NA	Water	7470A	70066
705-36875-2	AG36929	Total/NA	Water	7470A	70066
705-36875-3	AG36921	Total/NA	Water	7470A	70066
705-36875-4	AG36922	Total/NA	Water	7470A	70066
705-36875-5	AG36931	Total/NA	Water	7470A	70066
705-36875-6	AG36901	Total/NA	Water	7470A	70066
705-36875-7	AG36910	Total/NA	Water	7470A	70066
705-36875-8	AG36906	Total/NA	Water	7470A	70066
705-36875-9	AG36896	Total/NA	Water	7470A	70066
705-36875-10	AG36899	Total/NA	Water	7470A	70066
705-36875-11	AG36892	Total/NA	Water	7470A	70066
705-36875-12	AG36909	Total/NA	Water	7470A	70066
705-36875-13	AG36900	Total/NA	Water	7470A	70066
MB 705-70066/1-A	Method Blank	Total/NA	Water	7470A	70066
LCS 705-70066/2-A	Lab Control Sample	Total/NA	Water	7470A	70066
705-36875-1 MS	AG36897	Total/NA	Water	7470A	70066
705-36875-1 MSD	AG36897	Total/NA	Water	7470A	70066

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-70066/1-A
Matrix: Water
Analysis Batch: 70195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/24/25 13:24	07/24/25 18:57	1

Lab Sample ID: LCS 705-70066/2-A
Matrix: Water
Analysis Batch: 70195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.00413		mg/L		103	80 - 120

Lab Sample ID: 705-36875-1 MS
Matrix: Water
Analysis Batch: 70195

Client Sample ID: AG36897
Prep Type: Total/NA
Prep Batch: 70066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00400	0.00407		mg/L		102	75 - 125

Lab Sample ID: 705-36875-1 MSD
Matrix: Water
Analysis Batch: 70195

Client Sample ID: AG36897
Prep Type: Total/NA
Prep Batch: 70066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00400	0.00407		mg/L		102	75 - 125	0	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Client Sample ID: AG36897

Lab Sample ID: 705-36875-1

Date Collected: 07/07/25 10:07

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:05

Client Sample ID: AG36929

Lab Sample ID: 705-36875-2

Date Collected: 07/07/25 10:12

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:16

Client Sample ID: AG36921

Lab Sample ID: 705-36875-3

Date Collected: 07/07/25 15:20

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:20

Client Sample ID: AG36922

Lab Sample ID: 705-36875-4

Date Collected: 07/07/25 15:25

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:24

Client Sample ID: AG36931

Lab Sample ID: 705-36875-5

Date Collected: 07/07/25 15:25

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:28

Client Sample ID: AG36901

Lab Sample ID: 705-36875-6

Date Collected: 07/07/25 11:37

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:32

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Client Sample ID: AG36910

Lab Sample ID: 705-36875-7

Date Collected: 07/07/25 13:28

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:47

Client Sample ID: AG36906

Lab Sample ID: 705-36875-8

Date Collected: 07/07/25 12:30

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:51

Client Sample ID: AG36896

Lab Sample ID: 705-36875-9

Date Collected: 07/08/25 11:14

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:55

Client Sample ID: AG36899

Lab Sample ID: 705-36875-10

Date Collected: 07/08/25 09:25

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 19:59

Client Sample ID: AG36892

Lab Sample ID: 705-36875-11

Date Collected: 07/08/25 13:40

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 20:03

Client Sample ID: AG36909

Lab Sample ID: 705-36875-12

Date Collected: 07/08/25 14:34

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 20:07

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Client Sample ID: AG36900

Lab Sample ID: 705-36875-13

Date Collected: 07/08/25 12:22

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70066	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70195	GR	EET ATL	07/24/25 20:11

Laboratory References:

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Chain of Custody

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.08.G01.1 / 3650 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	Hg
AG36897	WAP-19	7/7/25	1007	AGP EA	1	P	G	GW	2	7470 RL < 0.2 ug/L	X
AG36929	WAP-19F	↓	1012	↓	↓	↓	↓	↓	↓		
AG36921	WLF-A2-6	↓	1520	↓	↓	↓	↓	↓	↓		
AG36922	WLF-A2-6: DUP	↓	1525	↓	↓	↓	↓	↓	↓		
AG36931	WLF-A2-6F	↓	1525	↓	↓	↓	↓	↓	↓		
AG36901	WAP-23	↓	1137	↓	↓	↓	↓	↓	↓		
AG36910	WAP-30	↓	1328	↓	↓	↓	↓	↓	↓		
AG36906	WAP-27	7/7/25	1230	↓	↓	↓	↓	↓	↓		



705-36875 COC

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 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"/> Deloconic 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	<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"/> Tl <input type="checkbox"/> Ti <input type="checkbox"/> V <input type="checkbox"/> Zn <input checked="" type="checkbox"/> Hg <input type="checkbox"/> Cr+VI <input type="checkbox"/> 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): <u>25.5</u> Initials: <u>#2665</u> Correct pH: Yes No Preservative Lot #: Date/Time/Init for preservative:
<u>S. Levy</u>	<u>35674</u>	<u>FED-EX</u>	<u> </u>	<u>7/14/25</u>	<u>1000</u>	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
		<u>Romeo</u>		<u>07/16/25</u>	<u>945</u>	
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=Na2S2O5 6-Other (Specify)

Chain of Custody



Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.08.G01.1 / 36500 Rerun request for any flagged: Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG36896	WAP-18	7/8/25	1114	AGP EX	1	P	G	GW	2	7470 RL < 0.2 ug/L	X
AG36899	WAP-21		0925								
AG36892	WAP-15		1340								
AG36909	WAP-21		1434								
AG36900	WAP-22		1222								

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	<input type="checkbox"/> 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"/> Sulfides <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"/> Color <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, Ni, Pb, <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 checked="" 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)
<i>S. Levy</i>	35594	FED-EX	-	7/14/25	1000	TEMP (°C): <u>25.5</u>
		<i>[Signature]</i>		07/16/25	945	Initials: <u>AZ605</u>
						Correct pH: Yes No
						Preservative Lot #:
						Date/Time/Init for preservative:

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-36875-1

Login Number: 36875

List Number: 1

Creator: Taylor, Renee

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/jm02.08.g01.1/36500

Job ID: 705-36875-1

Laboratory: Eurofins Atlanta

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
AIHA LAP, LLC	Environmental Lead Laboratory Accreditation Program (ELLAP)	LAP-100671	11-01-25
AIHA LAP, LLC	Industrial Hygiene Laboratory Accreditation Program (IHLAP)	LAP-100671	11-01-25
Florida	NELAP	E87582	06-30-26
Georgia	State	E87582	06-30-26
Georgia (DW)	State	800	04-25-26
Kentucky (UST)	State	123046	06-30-26
North Carolina (WW/SW)	State	562	12-31-25
South Carolina	State	98016	06-30-26
USDA	US Federal Programs	525-23-143-96227A1	05-24-26

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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 7/28/2025 2:35:30 PM

JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

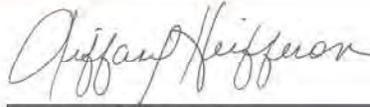
705-36880-1

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
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: 705-36880-1

Job ID: 705-36880-1

Eurofins Atlanta

Job Narrative 705-36880-1

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 7/16/2025 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.5°C.

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: 125915/JM02.09.G01.1/36500

Job ID: 705-36880-1

Client Sample ID: AG36887 **Lab Sample ID: 705-36880-1**

No Detections.

Client Sample ID: AG36888 **Lab Sample ID: 705-36880-2**

No Detections.

Client Sample ID: AG36893 **Lab Sample ID: 705-36880-3**

No Detections.

Client Sample ID: AG36889 **Lab Sample ID: 705-36880-4**

No Detections.

Client Sample ID: AG36891 **Lab Sample ID: 705-36880-5**

No Detections.

Client Sample ID: AG36904 **Lab Sample ID: 705-36880-6**

No Detections.

Client Sample ID: AG36905 **Lab Sample ID: 705-36880-7**

No Detections.

Client Sample ID: AG36919 **Lab Sample ID: 705-36880-8**

No Detections.

Client Sample ID: AG36920 **Lab Sample ID: 705-36880-9**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

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

Job ID: 705-36880-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-36880-1	AG36887	Water	07/09/25 12:18	07/16/25 09:45
705-36880-2	AG36888	Water	07/09/25 12:23	07/16/25 09:45
705-36880-3	AG36893	Water	07/09/25 14:27	07/16/25 09:45
705-36880-4	AG36889	Water	07/09/25 11:30	07/16/25 09:45
705-36880-5	AG36891	Water	07/09/25 13:19	07/16/25 09:45
705-36880-6	AG36904	Water	07/09/25 15:50	07/16/25 09:45
705-36880-7	AG36905	Water	07/09/25 15:55	07/16/25 09:45
705-36880-8	AG36919	Water	07/09/25 09:42	07/16/25 09:45
705-36880-9	AG36920	Water	07/09/25 10:28	07/16/25 09:45



Method Summary

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

Job ID: 705-36880-1

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

Protocol References:

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

Laboratory References:

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



Definitions/Glossary

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

Job ID: 705-36880-1

Qualifiers

Metals

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

Glossary

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

Client Sample Results

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

Job ID: 705-36880-1

Client Sample ID: AG36887

Lab Sample ID: 705-36880-1

Date Collected: 07/09/25 12:18

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/24/25 13:24	07/24/25 20:23	1

Client Sample ID: AG36888

Lab Sample ID: 705-36880-2

Date Collected: 07/09/25 12:23

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/24/25 13:24	07/24/25 20:46	1

Client Sample ID: AG36893

Lab Sample ID: 705-36880-3

Date Collected: 07/09/25 14:27

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/24/25 13:24	07/24/25 20:50	1

Client Sample ID: AG36889

Lab Sample ID: 705-36880-4

Date Collected: 07/09/25 11:30

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/24/25 13:24	07/24/25 20:54	1

Client Sample ID: AG36891

Lab Sample ID: 705-36880-5

Date Collected: 07/09/25 13:19

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/24/25 13:24	07/24/25 20:58	1

Client Sample ID: AG36904

Lab Sample ID: 705-36880-6

Date Collected: 07/09/25 15:50

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/25/25 13:16	07/25/25 18:00	1

Client Sample ID: AG36905

Lab Sample ID: 705-36880-7

Date Collected: 07/09/25 15:55

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/25/25 13:16	07/25/25 18:04	1

Client Sample Results

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

Job ID: 705-36880-1

Client Sample ID: AG36919

Lab Sample ID: 705-36880-8

Date Collected: 07/09/25 09:42

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/25/25 13:16	07/25/25 18:08	1

Client Sample ID: AG36920

Lab Sample ID: 705-36880-9

Date Collected: 07/09/25 10:28

Matrix: Water

Date Received: 07/16/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/25/25 13:16	07/25/25 18:12	1

QC Association Summary

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

Job ID: 705-36880-1

Metals

Prep Batch: 70067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-36880-1	AG36887	Total/NA	Water	7470A	
705-36880-2	AG36888	Total/NA	Water	7470A	
705-36880-3	AG36893	Total/NA	Water	7470A	
705-36880-4	AG36889	Total/NA	Water	7470A	
705-36880-5	AG36891	Total/NA	Water	7470A	
MB 705-70067/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-70067/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-36880-1 MS	AG36887	Total/NA	Water	7470A	
705-36880-1 MSD	AG36887	Total/NA	Water	7470A	

Analysis Batch: 70196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-36880-1	AG36887	Total/NA	Water	7470A	70067
705-36880-2	AG36888	Total/NA	Water	7470A	70067
705-36880-3	AG36893	Total/NA	Water	7470A	70067
705-36880-4	AG36889	Total/NA	Water	7470A	70067
705-36880-5	AG36891	Total/NA	Water	7470A	70067
MB 705-70067/1-A	Method Blank	Total/NA	Water	7470A	70067
LCS 705-70067/2-A	Lab Control Sample	Total/NA	Water	7470A	70067
705-36880-1 MS	AG36887	Total/NA	Water	7470A	70067
705-36880-1 MSD	AG36887	Total/NA	Water	7470A	70067

Prep Batch: 70360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-36880-6	AG36904	Total/NA	Water	7470A	
705-36880-7	AG36905	Total/NA	Water	7470A	
705-36880-8	AG36919	Total/NA	Water	7470A	
705-36880-9	AG36920	Total/NA	Water	7470A	
MB 705-70360/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-70360/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-37275-A-2-E MS	Matrix Spike	Total/NA	Water	7470A	
705-37275-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 70685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-36880-6	AG36904	Total/NA	Water	7470A	70360
705-36880-7	AG36905	Total/NA	Water	7470A	70360
705-36880-8	AG36919	Total/NA	Water	7470A	70360
705-36880-9	AG36920	Total/NA	Water	7470A	70360
MB 705-70360/1-A	Method Blank	Total/NA	Water	7470A	70360
LCS 705-70360/2-A	Lab Control Sample	Total/NA	Water	7470A	70360
705-37275-A-2-E MS	Matrix Spike	Total/NA	Water	7470A	70360
705-37275-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	70360

QC Sample Results

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

Job ID: 705-36880-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-70067/1-A
Matrix: Water
Analysis Batch: 70196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/24/25 13:24	07/24/25 20:15	1

Lab Sample ID: LCS 705-70067/2-A
Matrix: Water
Analysis Batch: 70196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.004056		mg/L		101	80 - 120

Lab Sample ID: 705-36880-1 MS
Matrix: Water
Analysis Batch: 70196

Client Sample ID: AG36887
Prep Type: Total/NA
Prep Batch: 70067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004004		mg/L		100	75 - 125

Lab Sample ID: 705-36880-1 MSD
Matrix: Water
Analysis Batch: 70196

Client Sample ID: AG36887
Prep Type: Total/NA
Prep Batch: 70067

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	0.004000		mg/L		100	75 - 125	0	20

Lab Sample ID: MB 705-70360/1-A
Matrix: Water
Analysis Batch: 70685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/25/25 13:16	07/25/25 17:25	1

Lab Sample ID: LCS 705-70360/2-A
Matrix: Water
Analysis Batch: 70685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003962		mg/L		99	80 - 120

Lab Sample ID: 705-37275-A-2-E MS
Matrix: Water
Analysis Batch: 70685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.003940		mg/L		99	75 - 125

Lab Sample ID: 705-37275-A-2-F MSD
Matrix: Water
Analysis Batch: 70685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70360

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	0.003921		mg/L		98	75 - 125	0	20

Eurofins Atlanta

Lab Chronicle

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

Job ID: 705-36880-1

Client Sample ID: AG36887

Lab Sample ID: 705-36880-1

Date Collected: 07/09/25 12:18

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70067	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70196	GR	EET ATL	07/24/25 20:23

Client Sample ID: AG36888

Lab Sample ID: 705-36880-2

Date Collected: 07/09/25 12:23

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70067	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70196	GR	EET ATL	07/24/25 20:46

Client Sample ID: AG36893

Lab Sample ID: 705-36880-3

Date Collected: 07/09/25 14:27

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70067	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70196	GR	EET ATL	07/24/25 20:50

Client Sample ID: AG36889

Lab Sample ID: 705-36880-4

Date Collected: 07/09/25 11:30

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70067	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70196	GR	EET ATL	07/24/25 20:54

Client Sample ID: AG36891

Lab Sample ID: 705-36880-5

Date Collected: 07/09/25 13:19

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70067	GR	EET ATL	07/24/25 13:24
Total/NA	Analysis	7470A		1	70196	GR	EET ATL	07/24/25 20:58

Client Sample ID: AG36904

Lab Sample ID: 705-36880-6

Date Collected: 07/09/25 15:50

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70360	GR	EET ATL	07/25/25 13:16
Total/NA	Analysis	7470A		1	70685	GR	EET ATL	07/25/25 18:00

Lab Chronicle

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

Job ID: 705-36880-1

Client Sample ID: AG36905

Lab Sample ID: 705-36880-7

Date Collected: 07/09/25 15:55

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70360	GR	EET ATL	07/25/25 13:16
Total/NA	Analysis	7470A		1	70685	GR	EET ATL	07/25/25 18:04

Client Sample ID: AG36919

Lab Sample ID: 705-36880-8

Date Collected: 07/09/25 09:42

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70360	GR	EET ATL	07/25/25 13:16
Total/NA	Analysis	7470A		1	70685	GR	EET ATL	07/25/25 18:08

Client Sample ID: AG36920

Lab Sample ID: 705-36880-9

Date Collected: 07/09/25 10:28

Matrix: Water

Date Received: 07/16/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			70360	GR	EET ATL	07/25/25 13:16
Total/NA	Analysis	7470A		1	70685	GR	EET ATL	07/25/25 18:12

Laboratory References:

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

Chain of Custody



Customer Email/Report Recipient: _____ Date Results Needed by: _____ Project/Task/Unit #: _____ Rerun request for any flagged: Yes No

LINDA WILLIAMS @santecooper.com 125915 / JMD02.09.G01.1 / 36500 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	
AG-36887	WAP-14	7/9/25	1218	AGF EA	1	P	G	GW	2	7470 RL < 0.2 ug/L	X
88	WAP-14 DUP		1223								
93	WAP-16		1427								
AG-36889	WAP-14A		1130								
91	WAP-14C		1319								
904	WAP-26		1550								
05	WAP-26 DUP		1555								
AG-36919	WLF-A2-1		0942								
1	WLF-A2-2		1028								



Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
<input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> SPT/TKM <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"/> 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"/> 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"/> 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"/> Volatiles <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Drifted Strength <input type="checkbox"/> HT <input type="checkbox"/> Dissolved Glass <input type="checkbox"/> Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals (As, Cd, Br, 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"/> Ba <input type="checkbox"/> Be <input type="checkbox"/> Bi <input type="checkbox"/> Br <input type="checkbox"/> Cd <input type="checkbox"/> Co <input type="checkbox"/> Cr <input type="checkbox"/> Cu <input type="checkbox"/> Fe <input type="checkbox"/> Hg <input type="checkbox"/> I <input type="checkbox"/> Li <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> Ni <input type="checkbox"/> Pb <input type="checkbox"/> Se <input type="checkbox"/> Si <input type="checkbox"/> Sn <input type="checkbox"/> S <input type="checkbox"/> Tl <input type="checkbox"/> V <input type="checkbox"/> Zn

Reinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only)
8.8004		FED-EX		7/14/25	1000	TEMP (C): <u>25.5</u>
						Initials: <u># 26005</u>
						Correct pH: Yes No
						Preservative Lot #:
						Date/Time/Unit for preservative:

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-36880-1

Login Number: 36880

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: 125915/JM02.09.G01.1/36500

Job ID: 705-36880-1

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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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

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JOB DESCRIPTION

125915/JM02.09.G01.1/36500

JOB NUMBER

705-37622-1

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
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: 705-37622-1

Job ID: 705-37622-1

Eurofins Atlanta

Job Narrative 705-37622-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 7/23/2025 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

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: 125915/JM02.09.G01.1/36500

Job ID: 705-37622-1

Client Sample ID: AG36886 **Lab Sample ID: 705-37622-1**

No Detections.

Client Sample ID: AG36907 **Lab Sample ID: 705-37622-2**

No Detections.

Client Sample ID: AG36908 **Lab Sample ID: 705-37622-3**

No Detections.

Client Sample ID: AG36894 **Lab Sample ID: 705-37622-4**

No Detections.

Client Sample ID: AG36895 **Lab Sample ID: 705-37622-5**

No Detections.

Client Sample ID: AG36884 **Lab Sample ID: 705-37622-6**

No Detections.

Client Sample ID: AG36885 **Lab Sample ID: 705-37622-7**

No Detections.

Client Sample ID: AG36903 **Lab Sample ID: 705-37622-8**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

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

Job ID: 705-37622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-37622-1	AG36886	Water	07/14/25 10:18	07/23/25 09:45
705-37622-2	AG36907	Water	07/14/25 11:34	07/23/25 09:45
705-37622-3	AG36908	Water	07/14/25 12:31	07/23/25 09:45
705-37622-4	AG36894	Water	07/14/25 13:48	07/23/25 09:45
705-37622-5	AG36895	Water	07/14/25 13:53	07/23/25 09:45
705-37622-6	AG36884	Water	07/10/25 13:39	07/23/25 09:45
705-37622-7	AG36885	Water	07/10/25 13:44	07/23/25 09:45
705-37622-8	AG36903	Water	07/10/25 10:13	07/23/25 09:45



Method Summary

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

Job ID: 705-37622-1

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

Protocol References:

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

Laboratory References:

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



Definitions/Glossary

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

Job ID: 705-37622-1

Qualifiers

Metals

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

Glossary

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

Client Sample Results

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

Job ID: 705-37622-1

Client Sample ID: AG36886

Date Collected: 07/14/25 10:18

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-1

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:13	1

Client Sample ID: AG36907

Date Collected: 07/14/25 11:34

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-2

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:17	1

Client Sample ID: AG36908

Date Collected: 07/14/25 12:31

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-3

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:21	1

Client Sample ID: AG36894

Date Collected: 07/14/25 13:48

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-4

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:24	1

Client Sample ID: AG36895

Date Collected: 07/14/25 13:53

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-5

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:28	1

Client Sample ID: AG36884

Date Collected: 07/10/25 13:39

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-6

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:44	1

Client Sample ID: AG36885

Date Collected: 07/10/25 13:44

Date Received: 07/23/25 09:45

Lab Sample ID: 705-37622-7

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:48	1

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Client Sample Results

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

Job ID: 705-37622-1

Client Sample ID: AG36903

Lab Sample ID: 705-37622-8

Date Collected: 07/10/25 10:13

Matrix: Water

Date Received: 07/23/25 09:45

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 18:52	1

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QC Association Summary

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

Job ID: 705-37622-1

Metals

Prep Batch: 71691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-37622-1	AG36886	Total/NA	Water	7470A	
705-37622-2	AG36907	Total/NA	Water	7470A	
705-37622-3	AG36908	Total/NA	Water	7470A	
705-37622-4	AG36894	Total/NA	Water	7470A	
705-37622-5	AG36895	Total/NA	Water	7470A	
705-37622-6	AG36884	Total/NA	Water	7470A	
705-37622-7	AG36885	Total/NA	Water	7470A	
705-37622-8	AG36903	Total/NA	Water	7470A	
MB 705-71691/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-71691/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-37577-F-7-D MS	Matrix Spike	Total/NA	Water	7470A	
705-37577-F-7-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 71787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-37622-1	AG36886	Total/NA	Water	7470A	71691
705-37622-2	AG36907	Total/NA	Water	7470A	71691
705-37622-3	AG36908	Total/NA	Water	7470A	71691
705-37622-4	AG36894	Total/NA	Water	7470A	71691
705-37622-5	AG36895	Total/NA	Water	7470A	71691
705-37622-6	AG36884	Total/NA	Water	7470A	71691
705-37622-7	AG36885	Total/NA	Water	7470A	71691
705-37622-8	AG36903	Total/NA	Water	7470A	71691
MB 705-71691/1-A	Method Blank	Total/NA	Water	7470A	71691
LCS 705-71691/2-A	Lab Control Sample	Total/NA	Water	7470A	71691
705-37577-F-7-D MS	Matrix Spike	Total/NA	Water	7470A	71691
705-37577-F-7-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	71691

QC Sample Results

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

Job ID: 705-37622-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-71691/1-A
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		07/31/25 14:35	07/31/25 17:53	1

Lab Sample ID: LCS 705-71691/2-A
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003784		mg/L		95	80 - 120

Lab Sample ID: 705-37577-F-7-D MS
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004110		mg/L		103	75 - 125

Lab Sample ID: 705-37577-F-7-E MSD
Matrix: Water
Analysis Batch: 71787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71691

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	0.003989		mg/L		100	75 - 125	3	20

Lab Chronicle

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

Job ID: 705-37622-1

Client Sample ID: AG36886

Lab Sample ID: 705-37622-1

Date Collected: 07/14/25 10:18

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:13

Client Sample ID: AG36907

Lab Sample ID: 705-37622-2

Date Collected: 07/14/25 11:34

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:17

Client Sample ID: AG36908

Lab Sample ID: 705-37622-3

Date Collected: 07/14/25 12:31

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:21

Client Sample ID: AG36894

Lab Sample ID: 705-37622-4

Date Collected: 07/14/25 13:48

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:24

Client Sample ID: AG36895

Lab Sample ID: 705-37622-5

Date Collected: 07/14/25 13:53

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:28

Client Sample ID: AG36884

Lab Sample ID: 705-37622-6

Date Collected: 07/10/25 13:39

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:44

Lab Chronicle

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

Job ID: 705-37622-1

Client Sample ID: AG36885

Lab Sample ID: 705-37622-7

Date Collected: 07/10/25 13:44

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:48

Client Sample ID: AG36903

Lab Sample ID: 705-37622-8

Date Collected: 07/10/25 10:13

Matrix: Water

Date Received: 07/23/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			71691	GR	EET ATL	07/31/25 14:35
Total/NA	Analysis	7470A		1	71787	GR	EET ATL	07/31/25 18:52

Laboratory References:

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

Chain of Custody



HG

Customer Email/Report Recipient: LINDA.WILLIAMS @santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged 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
AG36886	WAP-13	7/14/25	1018	MTH EA	1	P	G	GW	2	7470 RL <0.2 ug/L	X
AG36907	WAP-28		1134								
AG36908	WAP-28R		1231								
AG36894	WAP-17		1348								
AG36895	WAP-17 DUP		1353								
AG36884	WAP-12	7/10/25	1339	MGP EA						705-37622 COC	
AG36885	WAP-12 DUP		1344								
AG36903	WAP-25		1013								



705-37622 COC

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"/> P <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"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> TP/TP04/TP040 <input type="checkbox"/> UFT <input type="checkbox"/> Dissolved Chlorine Used Oil <input type="checkbox"/> Fluoride <input type="checkbox"/> Meth. (As, Cd, Cr, Ni, Pb, etc.) COFER	<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"/> Ar <input type="checkbox"/> Ba <input type="checkbox"/> Be <input type="checkbox"/> Bi <input type="checkbox"/> Bk <input type="checkbox"/> Br <input type="checkbox"/> Ca <input type="checkbox"/> Ce <input type="checkbox"/> Cf <input type="checkbox"/> Cl <input type="checkbox"/> Cm <input type="checkbox"/> Co <input type="checkbox"/> Cs <input type="checkbox"/> Cu <input type="checkbox"/> Ds <input type="checkbox"/> Er <input type="checkbox"/> Fe <input type="checkbox"/> Fm <input type="checkbox"/> Fr <input type="checkbox"/> Gd <input type="checkbox"/> Hf <input type="checkbox"/> Hg <input type="checkbox"/> Hs <input type="checkbox"/> In <input type="checkbox"/> Ir <input type="checkbox"/> K <input type="checkbox"/> Kr <input type="checkbox"/> La <input type="checkbox"/> Li <input type="checkbox"/> Lr <input type="checkbox"/> Lu <input type="checkbox"/> Mg <input type="checkbox"/> Mn <input type="checkbox"/> Mo <input type="checkbox"/> Na <input type="checkbox"/> Nb <input type="checkbox"/> Nd <input type="checkbox"/> Ni <input type="checkbox"/> Np <input type="checkbox"/> O <input type="checkbox"/> Os <input type="checkbox"/> Pb <input type="checkbox"/> Po <input type="checkbox"/> Pt <input type="checkbox"/> Pu <input type="checkbox"/> Rn <input type="checkbox"/> Rh <input type="checkbox"/> Ru <input type="checkbox"/> S <input type="checkbox"/> Se <input type="checkbox"/> Sm <input type="checkbox"/> Si <input type="checkbox"/> Sn <input type="checkbox"/> Sr <input type="checkbox"/> Te <input type="checkbox"/> Th <input type="checkbox"/> Tl <input type="checkbox"/> U <input type="checkbox"/> Uu <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> Xe <input type="checkbox"/> Y <input type="checkbox"/> Yb <input type="checkbox"/> Zn RCRA (As, Ba, Be, 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>S. Levy</i>	35594	FED-EX	-	7/22/25	0830	
		VM		7/23/25	0945	

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code- 1=<4°C 2=HNO3 3=H2SO4 4-HCl 5=Na2S2O5 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-37622-1

Login Number: 37622

List Number: 1

Creator: Myndresku, Victor

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

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

Job ID: 705-37622-1

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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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 3/24/2025 4:45:37 PM

JOB DESCRIPTION

125915/JM02.08.G01.1/36500

JOB NUMBER

680-262769-1

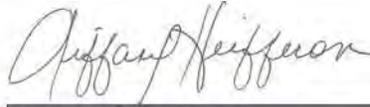
Eurofins Savannah

Job Notes

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

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

Authorization



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Authorized for release by
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/JM02.08.G01.1/36500

Job ID: 680-262769-1

Job ID: 680-262769-1

Eurofins Savannah

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



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.

Eurofins Savannah

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
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- 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: 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
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- 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: 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
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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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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

Client Sample Results

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

Job ID: 680-262769-1

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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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

Client Sample Results

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

Job ID: 680-262769-1

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
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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

Client Sample Results

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

Job ID: 680-262769-1

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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 680-262769-1

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

QC Sample Results

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

Job ID: 680-262769-1

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

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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

Lab Sample ID: 680-262769-13

Date Collected: 02/26/25 09:38

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 18:59

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

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

Lab Sample ID: 680-262769-15

Date Collected: 02/26/25 10:55

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 18:28

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

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

Lab Sample ID: 680-262769-17

Date Collected: 02/26/25 12:40

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 18:49

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

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 DO1 TMT/PH 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"/> Sulfides <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> Sulfur 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. 162 Qualities Volatile Inorganic BT Dissolved Used Oil 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 V Zn Hg CrVI XRF scan ICP-AES B, Cd, Cr, Pb, Ni, Se, Au
--	--	--	--	---	---	---

Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only)
<i>S. Levy</i>	35594	FED-EX	-	3/12/25	1030	TEMP (°C): _____
		<i>P. Muro</i>		3/13/25	0930	Initials: _____
						Correct pH: Yes No
						Preservative Lot #: 18.1/18.1
						Date/Time/Init for preservative:

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

Chain of Custody



COOLER

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: (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	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/TP04 <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"/> 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	<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	Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Ash <input type="checkbox"/> Acidity <input type="checkbox"/> Density, Specific Gravity <input type="checkbox"/> IFI <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"/> 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 Hg CrVI NRF soan 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: _____
<u>S. Levy</u>	<u>35594</u>	<u>FED-EX</u>	<u>—</u>	<u>3/12/25</u>	<u>1030</u>	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
		<u>C. Munn</u>		<u>3/13/25</u>	<u>0930</u>	
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 <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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



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

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: 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

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

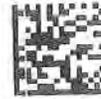
Date Received: 07/01/25 10:45

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

Chain of Custody



705 35290 COC

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

Customer Email/Report Recipient: LINDA.WILLIAMS @santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JM02.09.GP1.1 / 36500 Rerun request for any flagged O (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	HS
AG 36902	WAP-24	6/26/25	1209	AGP EB	1	P	G	GW	2	74-70 RL < 0.2 ug/L	X
AG 36872	WAP-2	6/25/25	1422								
AG 36928	WAP-2F		1427								
AG 36873	WAP-2R		1511								
AG 36911	WBW-1		0947								
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	1528								

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
<input type="checkbox"/> TOC <input type="checkbox"/> BOD <input type="checkbox"/> TP <input type="checkbox"/> TSS <input type="checkbox"/> NH3-N <input type="checkbox"/> NO3-N <input type="checkbox"/> NO2-N <input type="checkbox"/> H2S <input type="checkbox"/> Chlorides <input type="checkbox"/> Sulfate <input type="checkbox"/> Urea Nitrogen <input type="checkbox"/> Ammonia Nitrogen <input type="checkbox"/> Total Nitrogen <input type="checkbox"/> Total Phosphorus <input type="checkbox"/> Total Suspended Solids <input type="checkbox"/> Total Dissolved Solids <input type="checkbox"/> Total Solids <input type="checkbox"/> Total Hardness <input type="checkbox"/> Calcium Hardness <input type="checkbox"/> Magnesium Hardness <input type="checkbox"/> Total Hardness as CaCO3 <input type="checkbox"/> Total Hardness as CaCO3 (at 25°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 100°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 180°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 212°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 250°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 275°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 300°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 325°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 350°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 375°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 400°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 425°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 450°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 475°C) <input type="checkbox"/> Total Hardness as CaCO3 (at 500°C)	<input type="checkbox"/> Wallboard <input type="checkbox"/> AFB1 <input type="checkbox"/> TOX <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Paraty (CaSO4) <input type="checkbox"/> % Moisture <input type="checkbox"/> Sulfates <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Peroxide Star <input type="checkbox"/> Sulfur <input type="checkbox"/> USEA	<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 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	<input type="checkbox"/> Arsenic <input type="checkbox"/> Barium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chromium <input type="checkbox"/> Cobalt <input type="checkbox"/> Copper <input type="checkbox"/> Lead <input type="checkbox"/> Manganese <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Silver <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc	

Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only)
<i>S. Levy</i>	35594	FED-EX	—	6/30/25	1300	TEMP (°C): _____
		<i>[Signature]</i>		07/01/25	1045	Initials: _____
						Correct pH: Yes No
						Preservative Lot #: _____
						Date/Time/Init for preservative: _____

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

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



705 35289 COC

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.08. G&I.3 / 3610 Rerun request for any flagged Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample mfo • 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 (A31)
TOC DOC THP/POB NH3-N P CI NO3 NO2 SO4	Wallboard Aldi TOC Total metal Sulfate Percent Purity (CaSO4) % Moisture Softness pH Chlorides Barium 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 Used Oil Flashpoint Acidity (mg KOH/g) Sol. in Hex.	<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	As Ba Be Bi Br Ca Cd Co Cr Cu Fe Hg Mn Mo Ni Pb Se Si 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:
S. Levy	35594	FED-EX		6/30/25	1300	
		<i>[Signature]</i>		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

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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 5/30/2025 9:22:57 AM

JOB DESCRIPTION

125915/JM02.08.G01.3/36110

JOB NUMBER

705-31256-1

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



Generated
5/30/2025 9:22:57 AM

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

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Case Narrative

Client: South Carolina Public Service Authority
Project: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Job ID: 705-31256-1

Eurofins Atlanta

Job Narrative 705-31256-1

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

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

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

Receipt

The samples were received on 5/22/2025 9:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.2°C.

Metals

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

Eurofins Atlanta

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33008

Lab Sample ID: 705-31256-1

No Detections.

Client Sample ID: AG33009

Lab Sample ID: 705-31256-2

No Detections.

Client Sample ID: AG33010

Lab Sample ID: 705-31256-3

No Detections.

Client Sample ID: AG33011

Lab Sample ID: 705-31256-4

No Detections.

Client Sample ID: AG33005

Lab Sample ID: 705-31256-5

No Detections.

Client Sample ID: AG33006

Lab Sample ID: 705-31256-6

No Detections.

Client Sample ID: AG33007

Lab Sample ID: 705-31256-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-31256-1	AG33008	Water	05/14/25 10:28	05/22/25 09:33
705-31256-2	AG33009	Water	05/14/25 11:52	05/22/25 09:33
705-31256-3	AG33010	Water	05/14/25 11:57	05/22/25 09:33
705-31256-4	AG33011	Water	05/14/25 13:00	05/22/25 09:33
705-31256-5	AG33005	Water	05/13/25 10:39	05/22/25 09:33
705-31256-6	AG33006	Water	05/13/25 11:43	05/22/25 09:33
705-31256-7	AG33007	Water	05/13/25 11:48	05/22/25 09:33

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Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

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

Protocol References:

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

Laboratory References:

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



Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Qualifiers

Metals

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

Glossary

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33008

Lab Sample ID: 705-31256-1

Date Collected: 05/14/25 10:28

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:14	1

Client Sample ID: AG33009

Lab Sample ID: 705-31256-2

Date Collected: 05/14/25 11:52

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:18	1

Client Sample ID: AG33010

Lab Sample ID: 705-31256-3

Date Collected: 05/14/25 11:57

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:33	1

Client Sample ID: AG33011

Lab Sample ID: 705-31256-4

Date Collected: 05/14/25 13:00

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:37	1

Client Sample ID: AG33005

Lab Sample ID: 705-31256-5

Date Collected: 05/13/25 10:39

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:41	1

Client Sample ID: AG33006

Lab Sample ID: 705-31256-6

Date Collected: 05/13/25 11:43

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:45	1

Client Sample ID: AG33007

Lab Sample ID: 705-31256-7

Date Collected: 05/13/25 11:48

Matrix: Water

Date Received: 05/22/25 09:33

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 21:49	1

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Metals

Prep Batch: 57945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-31256-1	AG33008	Total/NA	Water	7470A	
705-31256-2	AG33009	Total/NA	Water	7470A	
705-31256-3	AG33010	Total/NA	Water	7470A	
705-31256-4	AG33011	Total/NA	Water	7470A	
705-31256-5	AG33005	Total/NA	Water	7470A	
705-31256-6	AG33006	Total/NA	Water	7470A	
705-31256-7	AG33007	Total/NA	Water	7470A	
MB 705-57945/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-57945/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-30630-D-2-E MS	Matrix Spike	Total/NA	Water	7470A	
705-30630-D-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 58120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-31256-1	AG33008	Total/NA	Water	7470A	57945
705-31256-2	AG33009	Total/NA	Water	7470A	57945
705-31256-3	AG33010	Total/NA	Water	7470A	57945
705-31256-4	AG33011	Total/NA	Water	7470A	57945
705-31256-5	AG33005	Total/NA	Water	7470A	57945
705-31256-6	AG33006	Total/NA	Water	7470A	57945
705-31256-7	AG33007	Total/NA	Water	7470A	57945
MB 705-57945/1-A	Method Blank	Total/NA	Water	7470A	57945
LCS 705-57945/2-A	Lab Control Sample	Total/NA	Water	7470A	57945
705-30630-D-2-E MS	Matrix Spike	Total/NA	Water	7470A	57945
705-30630-D-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	57945

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-57945/1-A
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		05/29/25 12:46	05/29/25 20:50	1

Lab Sample ID: LCS 705-57945/2-A
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.003996		mg/L		100	80 - 120

Lab Sample ID: 705-30630-D-2-E MS
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	U	0.00400	0.004137		mg/L		103	75 - 125

Lab Sample ID: 705-30630-D-2-F MSD
Matrix: Water
Analysis Batch: 58120

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000200	U	0.00400	0.004165		mg/L		104	75 - 125	1	20

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33008

Lab Sample ID: 705-31256-1

Date Collected: 05/14/25 10:28

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:14

Client Sample ID: AG33009

Lab Sample ID: 705-31256-2

Date Collected: 05/14/25 11:52

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:18

Client Sample ID: AG33010

Lab Sample ID: 705-31256-3

Date Collected: 05/14/25 11:57

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:33

Client Sample ID: AG33011

Lab Sample ID: 705-31256-4

Date Collected: 05/14/25 13:00

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:37

Client Sample ID: AG33005

Lab Sample ID: 705-31256-5

Date Collected: 05/13/25 10:39

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:41

Client Sample ID: AG33006

Lab Sample ID: 705-31256-6

Date Collected: 05/13/25 11:43

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:45

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Client Sample ID: AG33007

Lab Sample ID: 705-31256-7

Date Collected: 05/13/25 11:48

Matrix: Water

Date Received: 05/22/25 09:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			57945	GR	EET ATL	05/29/25 12:46
Total/NA	Analysis	7470A		1	58120	GR	EET ATL	05/29/25 21:49

Laboratory References:

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

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Chain of Custody



Customer Email/Report Recipient: LINDA.WILLIAMS @santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.08.GW.3 / 36110 Rerun request for any flagged Q: Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	HG
AG33008	WAP-30	5/14/25	1028	ATH AGP	1	P	G	GW	2	METHOD 7470 RL <0.2 ug/L	X
09	WAP-2R		1152								
10	WAP-2R DUP		1157								
11	WAP-28R		1300								
AG33005	CGYP-5	5/13/25	1039								
06	CGYP-6		1143								
07	CGYP-6 DUP		1148								



705-31256 COC

Nutrients <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"/> Selfies <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 <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	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) <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"/> PCB(A, B, C, D, E, F, G, H, I, J, K, L)
--	--	---	--	---	---	--

Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only)
<i>S. Levy</i>	35594	FED-EX	—	5/21/25	1600	TEMP (°C): <u>23.2</u>
		<i>[Signature]</i>		05/22/2025	09:33	Initials: _____
						Correct pH: Yes No
						Preservative Lot #:
						Date/Time/Init for preservative:

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

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-31256-1

Login Number: 31256

List Number: 1

Creator: Torres, Dominique

List Source: Eurofins Atlanta

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36110

Job ID: 705-31256-1

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25
South Carolina	State	98016	06-30-25

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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 3/4/2025 12:24:52 PM

JOB DESCRIPTION

125915/JM02-09-G01.1/36500

JOB NUMBER

680-262192-1

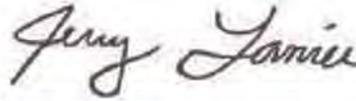
Eurofins Savannah

Job Notes

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

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

Authorization



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

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Case Narrative

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

Job ID: 680-262192-1

Job ID: 680-262192-1

Eurofins Savannah

Job Narrative 680-262192-1

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

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

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

Receipt

The samples were received on 2/25/2025 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.8°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: 680-262192-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262192-1	AG25164	GW	02/18/25 11:18	02/25/25 11:15
680-262192-2	AG25121	GW	02/18/25 12:29	02/25/25 11:15
680-262192-3	AG25122	GW	02/18/25 14:09	02/25/25 11:15
680-262192-4	AG25123	GW	02/18/25 13:45	02/25/25 11:15
680-262192-5	AG25124	GW	02/18/25 15:40	02/25/25 11:15
680-262192-6	AG25145	GW	02/19/25 09:33	02/25/25 11:15
680-262192-7	AG25144	GW	02/19/25 11:33	02/25/25 11:15
680-262192-8	AG25126	GW	02/19/25 12:30	02/25/25 11:15



Method Summary

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

Job ID: 680-262192-1

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

Definitions/Glossary

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

Job ID: 680-262192-1

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: 680-262192-1

Client Sample ID: AG25164

Lab Sample ID: 680-262192-1

No Detections.

Client Sample ID: AG25121

Lab Sample ID: 680-262192-2

No Detections.

Client Sample ID: AG25122

Lab Sample ID: 680-262192-3

No Detections.

Client Sample ID: AG25123

Lab Sample ID: 680-262192-4

No Detections.

Client Sample ID: AG25124

Lab Sample ID: 680-262192-5

No Detections.

Client Sample ID: AG25145

Lab Sample ID: 680-262192-6

No Detections.

Client Sample ID: AG25144

Lab Sample ID: 680-262192-7

No Detections.

Client Sample ID: AG25126

Lab Sample ID: 680-262192-8

No Detections.

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: 680-262192-1

Client Sample ID: AG25164

Lab Sample ID: 680-262192-1

Date Collected: 02/18/25 11:18

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:20	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25121

Lab Sample ID: 680-262192-2

Date Collected: 02/18/25 12:29

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:17	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25122

Lab Sample ID: 680-262192-3

Date Collected: 02/18/25 14:09

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:15	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25123

Lab Sample ID: 680-262192-4

Date Collected: 02/18/25 13:45

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:05	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25124

Lab Sample ID: 680-262192-5

Date Collected: 02/18/25 15:40

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:12	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25145

Lab Sample ID: 680-262192-6

Date Collected: 02/19/25 09:33

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 09:58	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25144

Lab Sample ID: 680-262192-7

Date Collected: 02/19/25 11:33

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:24	1

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

Client Sample Results

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

Job ID: 680-262192-1

Client Sample ID: AG25126

Lab Sample ID: 680-262192-8

Date Collected: 02/19/25 12:30

Matrix: GW

Date Received: 02/25/25 11:15

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 10:22	1

QC Sample Results

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

Job ID: 680-262192-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-877604/1-A
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 877604

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.200	U	0.200		ug/L		03/03/25 15:29	03/04/25 09:25	1

Lab Sample ID: LCS 680-877604/2-A
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 877604

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	2.50	2.492		ug/L		100	80 - 120

Lab Sample ID: 680-262055-E-6-C MS
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 877604

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	0.200	U F1	1.00	0.6501	F1	ug/L		65	80 - 120

Lab Sample ID: 680-262055-E-6-D MSD
Matrix: Water
Analysis Batch: 877703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 877604

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Mercury	0.200	U F1	1.00	0.6290	F1	ug/L		63	80 - 120	3	20

QC Association Summary

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

Job ID: 680-262192-1

Metals

Prep Batch: 877604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262192-1	AG25164	Total/NA	GW	7470A	
680-262192-2	AG25121	Total/NA	GW	7470A	
680-262192-3	AG25122	Total/NA	GW	7470A	
680-262192-4	AG25123	Total/NA	GW	7470A	
680-262192-5	AG25124	Total/NA	GW	7470A	
680-262192-6	AG25145	Total/NA	GW	7470A	
680-262192-7	AG25144	Total/NA	GW	7470A	
680-262192-8	AG25126	Total/NA	GW	7470A	
MB 680-877604/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-877604/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262055-E-6-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262055-E-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 877703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262192-1	AG25164	Total/NA	GW	7470A	877604
680-262192-2	AG25121	Total/NA	GW	7470A	877604
680-262192-3	AG25122	Total/NA	GW	7470A	877604
680-262192-4	AG25123	Total/NA	GW	7470A	877604
680-262192-5	AG25124	Total/NA	GW	7470A	877604
680-262192-6	AG25145	Total/NA	GW	7470A	877604
680-262192-7	AG25144	Total/NA	GW	7470A	877604
680-262192-8	AG25126	Total/NA	GW	7470A	877604
MB 680-877604/1-A	Method Blank	Total/NA	Water	7470A	877604
LCS 680-877604/2-A	Lab Control Sample	Total/NA	Water	7470A	877604
680-262055-E-6-C MS	Matrix Spike	Total/NA	Water	7470A	877604
680-262055-E-6-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	877604

Lab Chronicle

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

Job ID: 680-262192-1

Client Sample ID: AG25164

Lab Sample ID: 680-262192-1

Date Collected: 02/18/25 11:18

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:20

Client Sample ID: AG25121

Lab Sample ID: 680-262192-2

Date Collected: 02/18/25 12:29

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:17

Client Sample ID: AG25122

Lab Sample ID: 680-262192-3

Date Collected: 02/18/25 14:09

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:15

Client Sample ID: AG25123

Lab Sample ID: 680-262192-4

Date Collected: 02/18/25 13:45

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:05

Client Sample ID: AG25124

Lab Sample ID: 680-262192-5

Date Collected: 02/18/25 15:40

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:12

Client Sample ID: AG25145

Lab Sample ID: 680-262192-6

Date Collected: 02/19/25 09:33

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 09:58

Lab Chronicle

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

Job ID: 680-262192-1

Client Sample ID: AG25144

Lab Sample ID: 680-262192-7

Date Collected: 02/19/25 11:33

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:24

Client Sample ID: AG25126

Lab Sample ID: 680-262192-8

Date Collected: 02/19/25 12:30

Matrix: GW

Date Received: 02/25/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			877604	MG	EET SAV	03/03/25 15:29
Total/NA	Analysis	7470A		1	877703	BJB	EET SAV	03/04/25 10:22

Laboratory References:

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

Loc: 680
262192

Chain of Custody



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

UNDA, WILLIAMS @santeecooper.com / / 125715 / JM02.09.681.1 / 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	
KG 25164	WBW - 1	2/18/25	1118	MDS DCA	1	P	G	GW	2	7470 RL=0.2 UG/L	X
↓	21	↓	1229	↓	↓	↓	↓	↓	↓	↓	↓
KG 25122	WAP - 2	↓	1409	↓	↓	↓	↓	↓	↓	↓	↓
↓	23	↓	1845	↓	↓	↓	↓	↓	↓	↓	↓
↓	24	↓	1540	↓	↓	↓	↓	↓	↓	↓	↓
KG 25145	WAP - 16	2/11/25	0738	ATH DCA	↓	↓	↓	↓	↓	↓	↓
↓	44	↓	1133	↓	↓	↓	↓	↓	↓	↓	↓
KG 2512c	WAP - 4	2/19/25	1230	↓	↓	↓	↓	↓	↓	↓	↓



Nutrients	GYP	Coal	Flvash	Oil	MISC.	Metals (All)
FEH DMI TP-1/PO4 MIB N C1 NO2 NO3 SO4	Walkford AMY TOC Fedu nitrite Soluble Heavy (PbSO4) % Moisture Surfact pH Particle Sulfur CSDA	<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"/> BTUs <input type="checkbox"/> Sieve <input type="checkbox"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS	LEAD, OH Manganese Arsenic Cadmium Chromium Hg HCB Lead Mercury Nickel Nitrate Nitrite PCBs	<input type="checkbox"/> BTEX <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOAS/semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> B. Coil <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	AL BC Cd Cr Cu Fe Hg Mn Ni Pb Se Si Sr V XRF scan HCRAN, B, Cd, Cr, Hg, Pb, Se, Au

Reinquished by: 8. Aubry Employee # 35594 Received by: R. Calderone Employee # 60418 Date 2/25/25 Time 0815

Reinquished by: _____ Employee # _____ Received by: _____ Employee # _____ Date _____ Time _____

Reinquished by: R. Calderone Employee # _____ Received by: Seard Employee # _____ Date 2/25/25 Time 1115

Reinquished by: _____ Employee # _____ Received by: _____ Employee # _____ Date _____ Time _____

Reinquished by: _____ Employee # _____ Received by: _____ Employee # _____ Date _____ Time _____

Sample Receiving (Internal Use Only)
 TEMP (°C): 16.8/16.8
 Initials: _____
 Correct pH: Yes No
 Preservative Lot #: _____
 Date/Time/Int for preservative: _____

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, Sl-solid, C-coal, G-gypsum, FA-flvash, BA-bottom ash, M-misc (describe in comment section)
 Preservative code: 1-c-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: 680-262192-1

Login Number: 262192

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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

Accreditation/Certification Summary

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

Job ID: 680-262192-1

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 3/24/2025 7:58:16 AM

JOB DESCRIPTION

125915/JM02.08.E01.3/36500

JOB NUMBER

680-262766-1

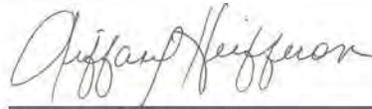
Eurofins Savannah

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 7:58:16 AM

Authorized for release by
Tiffany Heifferon, Project Manager I
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(770)457-8177

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Case Narrative

Client: South Carolina Public Service Authority
Project: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Job ID: 680-262766-1

Eurofins Savannah

Job Narrative 680-262766-1

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 16.4°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/JM02.08.E01.3/36500

Job ID: 680-262766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-262766-1	AG25178	Ground Water	03/07/25 09:50	03/13/25 09:30
680-262766-2	AG25179	Ground Water	03/07/25 09:55	03/13/25 09:30
680-262766-3	AG25180	Ground Water	03/07/25 10:25	03/13/25 09:30
680-262766-4	AG25181	Ground Water	03/07/25 10:30	03/13/25 09:30
680-262766-5	AG25125	Ground Water	02/24/25 11:15	03/13/25 09:30
680-262766-6	AG25131	Ground Water	02/25/25 15:21	03/13/25 09:30
680-262766-7	AG25132	Ground Water	02/25/25 14:56	03/13/25 09:30
680-262766-8	AG25133	Ground Water	02/25/25 13:45	03/13/25 09:30
680-262766-9	AG25134	Ground Water	02/25/25 13:50	03/13/25 09:30
680-262766-10	AG25136	Ground Water	03/07/25 11:25	03/13/25 09:30
680-262766-11	AG25137	Ground Water	03/07/25 11:30	03/13/25 09:30
680-262766-12	AG27580	Ground Water	03/07/25 09:18	03/13/25 09:30
680-262766-13	AG25156	Ground Water	03/07/25 14:41	03/13/25 09:30
680-262766-14	AG25157	Ground Water	03/07/25 13:00	03/13/25 09:30
680-262766-15	AG25158	Ground Water	03/07/25 13:05	03/13/25 09:30
680-262766-16	AG25154	Ground Water	03/06/25 09:45	03/13/25 09:30
680-262766-17	AG25155	Ground Water	03/06/25 14:39	03/13/25 09:30
680-262766-18	AG25163	Ground Water	03/06/25 11:49	03/13/25 09:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

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



Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Qualifiers

Metals

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

Glossary

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25178	Lab Sample ID: 680-262766-1
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25179	Lab Sample ID: 680-262766-2
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25180	Lab Sample ID: 680-262766-3
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25181	Lab Sample ID: 680-262766-4
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25125	Lab Sample ID: 680-262766-5
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25131	Lab Sample ID: 680-262766-6
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25132	Lab Sample ID: 680-262766-7
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25133	Lab Sample ID: 680-262766-8
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25134	Lab Sample ID: 680-262766-9
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25136	Lab Sample ID: 680-262766-10
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25137	Lab Sample ID: 680-262766-11
<input type="checkbox"/> No Detections.	
Client Sample ID: AG27580	Lab Sample ID: 680-262766-12
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25156	Lab Sample ID: 680-262766-13
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25157	Lab Sample ID: 680-262766-14
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25158	Lab Sample ID: 680-262766-15
<input type="checkbox"/> No Detections.	
Client Sample ID: AG25154	Lab Sample ID: 680-262766-16
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25155

Lab Sample ID: 680-262766-17

No Detections.

Client Sample ID: AG25163

Lab Sample ID: 680-262766-18

No Detections.

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

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25178

Lab Sample ID: 680-262766-1

Date Collected: 03/07/25 09:50

Matrix: Ground 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 14:17	03/19/25 20:07	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25179

Lab Sample ID: 680-262766-2

Date Collected: 03/07/25 09:55

Matrix: Ground 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 14:17	03/19/25 19:37	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25180

Lab Sample ID: 680-262766-3

Date Collected: 03/07/25 10:25

Matrix: Ground 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 14:17	03/19/25 19:56	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25181

Lab Sample ID: 680-262766-4

Date Collected: 03/07/25 10:30

Matrix: Ground 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 14:17	03/19/25 20:05	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25125

Lab Sample ID: 680-262766-5

Date Collected: 02/24/25 11:15

Matrix: Ground 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 14:17	03/19/25 19:34	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25131

Lab Sample ID: 680-262766-6

Date Collected: 02/25/25 15:21

Matrix: Ground 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 14:17	03/19/25 20:10	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25132

Lab Sample ID: 680-262766-7

Date Collected: 02/25/25 14:56

Matrix: Ground 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 14:17	03/19/25 19:48	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25133

Lab Sample ID: 680-262766-8

Date Collected: 02/25/25 13:45

Matrix: Ground 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 14:17	03/19/25 19:53	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25134

Lab Sample ID: 680-262766-9

Date Collected: 02/25/25 13:50

Matrix: Ground 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 14:17	03/19/25 19:51	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25136

Lab Sample ID: 680-262766-10

Date Collected: 03/07/25 11:25

Matrix: Ground 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 14:17	03/19/25 20:03	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25137

Lab Sample ID: 680-262766-11

Date Collected: 03/07/25 11:30

Matrix: Ground 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 14:17	03/19/25 19:46	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG27580

Lab Sample ID: 680-262766-12

Date Collected: 03/07/25 09:18

Matrix: Ground 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 14:17	03/19/25 19:25	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25156

Lab Sample ID: 680-262766-13

Date Collected: 03/07/25 14:41

Matrix: Ground 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 14:17	03/19/25 19:27	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25157

Lab Sample ID: 680-262766-14

Date Collected: 03/07/25 13:00

Matrix: Ground 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 14:17	03/19/25 19:39	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25158

Lab Sample ID: 680-262766-15

Date Collected: 03/07/25 13:05

Matrix: Ground 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 14:17	03/19/25 19:44	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25154

Lab Sample ID: 680-262766-16

Date Collected: 03/06/25 09:45

Matrix: Ground 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 14:17	03/19/25 19:41	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25155

Lab Sample ID: 680-262766-17

Date Collected: 03/06/25 14:39

Matrix: Ground 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 21:06	1

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25163

Lab Sample ID: 680-262766-18

Date Collected: 03/06/25 11:49

Matrix: Ground 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 21:16	1

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

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-879267/1-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 879267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		03/19/25 14:17	03/19/25 19:06	1

Lab Sample ID: LCS 680-879267/2-A
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 879267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.452		ug/L		98	80 - 120

Lab Sample ID: 680-262754-D-3-C MS
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 879267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.200	U	1.00	0.9394		ug/L		94	80 - 120

Lab Sample ID: 680-262754-D-3-D MSD
Matrix: Water
Analysis Batch: 879304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 879267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.200	U	1.00	0.9153		ug/L		92	80 - 120	3	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	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	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	Limits	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/JM02.08.E01.3/36500

Job ID: 680-262766-1

Metals

Prep Batch: 879267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262766-1	AG25178	Total/NA	Ground Water	7470A	
680-262766-2	AG25179	Total/NA	Ground Water	7470A	
680-262766-3	AG25180	Total/NA	Ground Water	7470A	
680-262766-4	AG25181	Total/NA	Ground Water	7470A	
680-262766-5	AG25125	Total/NA	Ground Water	7470A	
680-262766-6	AG25131	Total/NA	Ground Water	7470A	
680-262766-7	AG25132	Total/NA	Ground Water	7470A	
680-262766-8	AG25133	Total/NA	Ground Water	7470A	
680-262766-9	AG25134	Total/NA	Ground Water	7470A	
680-262766-10	AG25136	Total/NA	Ground Water	7470A	
680-262766-11	AG25137	Total/NA	Ground Water	7470A	
680-262766-12	AG27580	Total/NA	Ground Water	7470A	
680-262766-13	AG25156	Total/NA	Ground Water	7470A	
680-262766-14	AG25157	Total/NA	Ground Water	7470A	
680-262766-15	AG25158	Total/NA	Ground Water	7470A	
680-262766-16	AG25154	Total/NA	Ground Water	7470A	
MB 680-879267/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-879267/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-262754-D-3-C MS	Matrix Spike	Total/NA	Water	7470A	
680-262754-D-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 879270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-262766-17	AG25155	Total/NA	Ground Water	7470A	
680-262766-18	AG25163	Total/NA	Ground 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
680-262766-1	AG25178	Total/NA	Ground Water	7470A	879267
680-262766-2	AG25179	Total/NA	Ground Water	7470A	879267
680-262766-3	AG25180	Total/NA	Ground Water	7470A	879267
680-262766-4	AG25181	Total/NA	Ground Water	7470A	879267
680-262766-5	AG25125	Total/NA	Ground Water	7470A	879267
680-262766-6	AG25131	Total/NA	Ground Water	7470A	879267
680-262766-7	AG25132	Total/NA	Ground Water	7470A	879267
680-262766-8	AG25133	Total/NA	Ground Water	7470A	879267
680-262766-9	AG25134	Total/NA	Ground Water	7470A	879267
680-262766-10	AG25136	Total/NA	Ground Water	7470A	879267
680-262766-11	AG25137	Total/NA	Ground Water	7470A	879267
680-262766-12	AG27580	Total/NA	Ground Water	7470A	879267
680-262766-13	AG25156	Total/NA	Ground Water	7470A	879267
680-262766-14	AG25157	Total/NA	Ground Water	7470A	879267
680-262766-15	AG25158	Total/NA	Ground Water	7470A	879267
680-262766-16	AG25154	Total/NA	Ground Water	7470A	879267
680-262766-17	AG25155	Total/NA	Ground Water	7470A	879270
680-262766-18	AG25163	Total/NA	Ground Water	7470A	879270
MB 680-879267/1-A	Method Blank	Total/NA	Water	7470A	879267

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QC Association Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

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 680-879267/2-A	Lab Control Sample	Total/NA	Water	7470A	879267
LCS 680-879270/2-A	Lab Control Sample	Total/NA	Water	7470A	879270
680-262754-D-3-C MS	Matrix Spike	Total/NA	Water	7470A	879267
680-262754-D-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	879267
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

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25178

Lab Sample ID: 680-262766-1

Date Collected: 03/07/25 09:50

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:07

Client Sample ID: AG25179

Lab Sample ID: 680-262766-2

Date Collected: 03/07/25 09:55

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:37

Client Sample ID: AG25180

Lab Sample ID: 680-262766-3

Date Collected: 03/07/25 10:25

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:56

Client Sample ID: AG25181

Lab Sample ID: 680-262766-4

Date Collected: 03/07/25 10:30

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:05

Client Sample ID: AG25125

Lab Sample ID: 680-262766-5

Date Collected: 02/24/25 11:15

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:34

Client Sample ID: AG25131

Lab Sample ID: 680-262766-6

Date Collected: 02/25/25 15:21

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:10

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25132

Lab Sample ID: 680-262766-7

Date Collected: 02/25/25 14:56

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:48

Client Sample ID: AG25133

Lab Sample ID: 680-262766-8

Date Collected: 02/25/25 13:45

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:53

Client Sample ID: AG25134

Lab Sample ID: 680-262766-9

Date Collected: 02/25/25 13:50

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:51

Client Sample ID: AG25136

Lab Sample ID: 680-262766-10

Date Collected: 03/07/25 11:25

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 20:03

Client Sample ID: AG25137

Lab Sample ID: 680-262766-11

Date Collected: 03/07/25 11:30

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:46

Client Sample ID: AG27580

Lab Sample ID: 680-262766-12

Date Collected: 03/07/25 09:18

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:25

Lab Chronicle

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

Client Sample ID: AG25156

Lab Sample ID: 680-262766-13

Date Collected: 03/07/25 14:41

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:27

Client Sample ID: AG25157

Lab Sample ID: 680-262766-14

Date Collected: 03/07/25 13:00

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:39

Client Sample ID: AG25158

Lab Sample ID: 680-262766-15

Date Collected: 03/07/25 13:05

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:44

Client Sample ID: AG25154

Lab Sample ID: 680-262766-16

Date Collected: 03/06/25 09:45

Matrix: Ground 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			879267	MG	EET SAV	03/19/25 14:17
Total/NA	Analysis	7470A		1	879304	BJB	EET SAV	03/19/25 19:41

Client Sample ID: AG25155

Lab Sample ID: 680-262766-17

Date Collected: 03/06/25 14:39

Matrix: Ground 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 21:06

Client Sample ID: AG25163

Lab Sample ID: 680-262766-18

Date Collected: 03/06/25 11:49

Matrix: Ground 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 21:16

Laboratory References:

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

Chain of Custody



COOLER 2

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

LINDA WILLIAMS @santecooper.com _____ / _____ / _____ 125915 / JM02.08.681.3 / 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	HG
AG-25178	WAP-2 BP SW-1	3/7/25	0950	MDG DA	1	P	G	GW	2	7471 RL < 0.2 ug/L	X
77	WAP-2 BP SW-1 DUP		0955								
80	WAP-2 DITCH-SW-1		1025								
81	WAP-2 DITCH-SW-1		1030								
AG25125	WAP-3	2/24/25	1115	AFL SB							
AG25131	WAP-9	2/25/25	1521	MDG SB							
32	WAP-9F		1456								
33	WAP-10		1345								
34	WAP-10 DUP		1350								



Nutrients Total Solids Total Suspended Solids Total Dissolved Solids Ammonia Nitrogen Nitrate Nitrogen Total Phosphorus Soluble Phosphorus pH 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 Sulfides pH Chlorides Particle Size Sulfur 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 Trans. Oil Quality % Moisture Color Acidity Buels's Sludge IFT Unstabilized Grease Used Oil Metals (As, Cd, Cr, Ni, Pb, Hg) COOPER	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, Cs, Cd, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn, Hg, CrVI, XRF scan, RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, A)
---	---	---	--	---	---	---

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>Shery</i>	35594	FED-EX		3/12/25	1030	
				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)

10.4/16.4

Chain of Custody



COOLER 2

Customer Email/Report Recipient: LINDA.WILLIAMS @santeecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle Type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	HG
AG25136	WAP-12	3/7/25	1125	MDS DA	1	P	G	GW	2	7471 RL < 0.2 µg/L	X
↓ 37	WAP-12 DUP		1130								
AG-27580	WAP-21		0718								
AG-25156	WAP-25		1441								
↓ 57	WAP-26		1300								
↓ 58	WAP-26 DUP		1305								
AG-25154	WAP-23	3/6/25	0945								
↓ 55	WAP-24		1439								
↓ 63	WAP-30		1149								

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
<input type="checkbox"/> TOC <input type="checkbox"/> TP/TP04 <input type="checkbox"/> NH3-N <input type="checkbox"/> T <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"/> ALM <input type="checkbox"/> Total metals <input type="checkbox"/> Soluble Metals <input type="checkbox"/> Purity <input type="checkbox"/> % Moisture <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particulate Size <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	Trace Oil Quality Used Oil 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"/> Ba <input type="checkbox"/> Ca <input type="checkbox"/> Cd <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"/> Se <input type="checkbox"/> Si <input type="checkbox"/> S <input type="checkbox"/> Tl <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> Zn Hg CuVI ARF RAR (As, Ba, Ca, Cd, Cr, Fe, Hg, Ni, Se, Si)

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>	35594	FED-EX	—	3/12/25	1030	
				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=Na2S2O5 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-262766-1

Login Number: 262766

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.E01.3/36500

Job ID: 680-262766-1

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 11/4/2025 6:47:24 PM

JOB DESCRIPTION

125915/JM02.08.G01.3

JOB NUMBER

705-47195-1

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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11/4/2025 6:47:24 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/JM02.08.G01.3

Job ID: 705-47195-1

Job ID: 705-47195-1

Eurofins Atlanta

Job Narrative 705-47195-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/24/2025 9:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.2°C.

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: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Client Sample ID: AG48912

Lab Sample ID: 705-47195-1

No Detections.

Client Sample ID: AG48913

Lab Sample ID: 705-47195-2

No Detections.

Client Sample ID: AG48914

Lab Sample ID: 705-47195-3

No Detections.

Client Sample ID: AG48915

Lab Sample ID: 705-47195-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000567		0.000200		mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Atlanta

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
705-47195-1	AG48912	Water	10/14/25 12:37	10/24/25 09:37	South Carolina
705-47195-2	AG48913	Water	10/14/25 12:42	10/24/25 09:37	South Carolina
705-47195-3	AG48914	Water	10/14/25 14:34	10/24/25 09:37	South Carolina
705-47195-4	AG48915	Water	10/14/25 11:16	10/24/25 09:37	South Carolina

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

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

Protocol References:

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

Laboratory References:

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



Definitions/Glossary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Qualifiers

Metals

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

Glossary

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

Client Sample Results

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Client Sample ID: AG48912

Lab Sample ID: 705-47195-1

Date Collected: 10/14/25 12:37

Matrix: Water

Date Received: 10/24/25 09:37

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		11/03/25 12:12	11/03/25 18:26	1

Client Sample ID: AG48913

Lab Sample ID: 705-47195-2

Date Collected: 10/14/25 12:42

Matrix: Water

Date Received: 10/24/25 09:37

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		11/03/25 12:12	11/03/25 18:41	1

Client Sample ID: AG48914

Lab Sample ID: 705-47195-3

Date Collected: 10/14/25 14:34

Matrix: Water

Date Received: 10/24/25 09:37

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		11/03/25 12:12	11/03/25 18:45	1

Client Sample ID: AG48915

Lab Sample ID: 705-47195-4

Date Collected: 10/14/25 11:16

Matrix: Water

Date Received: 10/24/25 09:37

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000567		0.000200		mg/L		11/03/25 12:12	11/03/25 18:49	1

QC Association Summary

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Metals

Prep Batch: 92404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-47195-1	AG48912	Total/NA	Water	7470A	
705-47195-2	AG48913	Total/NA	Water	7470A	
705-47195-3	AG48914	Total/NA	Water	7470A	
705-47195-4	AG48915	Total/NA	Water	7470A	
MB 705-92404/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-92404/2-A	Lab Control Sample	Total/NA	Water	7470A	
705-46877-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	
705-46877-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 92915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-47195-1	AG48912	Total/NA	Water	7470A	92404
705-47195-2	AG48913	Total/NA	Water	7470A	92404
705-47195-3	AG48914	Total/NA	Water	7470A	92404
705-47195-4	AG48915	Total/NA	Water	7470A	92404
MB 705-92404/1-A	Method Blank	Total/NA	Water	7470A	92404
LCS 705-92404/2-A	Lab Control Sample	Total/NA	Water	7470A	92404
705-46877-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	92404
705-46877-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	92404

QC Sample Results

Client: South Carolina Public Service Authority
 Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-92404/1-A
Matrix: Water
Analysis Batch: 92915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000200	U	0.000200		mg/L		11/03/25 12:12	11/03/25 17:58	1

Lab Sample ID: LCS 705-92404/2-A
Matrix: Water
Analysis Batch: 92915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00400	0.004073		mg/L		102	80 - 120

Lab Sample ID: 705-46877-C-3-C MS
Matrix: Water
Analysis Batch: 92915

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 92404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00118		0.00400	0.005255		mg/L		102	75 - 125

Lab Sample ID: 705-46877-C-3-D MSD
Matrix: Water
Analysis Batch: 92915

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 92404

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00118		0.00400	0.005264		mg/L		102	75 - 125	0	20

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3

Job ID: 705-47195-1

Client Sample ID: AG48912

Lab Sample ID: 705-47195-1

Date Collected: 10/14/25 12:37

Matrix: Water

Date Received: 10/24/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			92404	TA	EET ATL	11/03/25 12:12
Total/NA	Analysis	7470A		1	92915	TA	EET ATL	11/03/25 18:26

Client Sample ID: AG48913

Lab Sample ID: 705-47195-2

Date Collected: 10/14/25 12:42

Matrix: Water

Date Received: 10/24/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			92404	TA	EET ATL	11/03/25 12:12
Total/NA	Analysis	7470A		1	92915	TA	EET ATL	11/03/25 18:41

Client Sample ID: AG48914

Lab Sample ID: 705-47195-3

Date Collected: 10/14/25 14:34

Matrix: Water

Date Received: 10/24/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			92404	TA	EET ATL	11/03/25 12:12
Total/NA	Analysis	7470A		1	92915	TA	EET ATL	11/03/25 18:45

Client Sample ID: AG48915

Lab Sample ID: 705-47195-4

Date Collected: 10/14/25 11:16

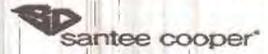
Matrix: Water

Date Received: 10/24/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			92404	TA	EET ATL	11/03/25 12:12
Total/NA	Analysis	7470A		1	92915	TA	EET ATL	11/03/25 18:49

Laboratory References:

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



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

Chain of Custody

(Internal Use Only)

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JMO2.08.GP1.3 / 36110 Rerun request for any flagged QC: Yes No

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Analysis Group		
											HG		
AG48912	WAP-2R	10/14/25	1237	CG MG JR	1	P	G	GW	2	7470 RLS 0.02 ug/L	X		
AG48913	WAP-2R DUP		1242										
AG48914	WAP-28R		1434										
AG48915	WAP-30		1116										



Nutrients <input type="checkbox"/> DOC <input type="checkbox"/> TP/TP04 <input type="checkbox"/> NH ₃ -N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO ₂ <input type="checkbox"/> Br <input type="checkbox"/> NO ₃ <input type="checkbox"/> SO ₄	Gypsum <input checked="" type="checkbox"/> Wallboard <input type="checkbox"/> AJM <input type="checkbox"/> Total metals <input type="checkbox"/> (CaSO ₄) <input type="checkbox"/> % Moisture <input type="checkbox"/> pH <input type="checkbox"/> Particle Size <input type="checkbox"/> USDA <input type="checkbox"/> Sieve <input type="checkbox"/> Sulfur	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"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> As <input type="checkbox"/> TSS <input type="checkbox"/> Se <input type="checkbox"/> E. Coli	Oil Trans. Oil Quality <input type="checkbox"/> Solvent <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Density <input type="checkbox"/> Oil <input type="checkbox"/> Lubricant Metals: <input type="checkbox"/> Ni, <input type="checkbox"/> Pb GOFER Monthly Rush (Weekly)	MISC. <input type="checkbox"/> Limestone <input type="checkbox"/> Naphthalene <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> P/A Coliform <input type="checkbox"/> pH <input type="checkbox"/> Diss. Metals <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB <input type="checkbox"/> Sieve	<input type="checkbox"/> Metals (All) <table border="1"> <tr><td>Al</td><td>As</td><td>B</td></tr> <tr><td>Ba</td><td>Be</td><td>Ca</td></tr> <tr><td>Cd</td><td>Co</td><td>Cu</td></tr> <tr><td>K</td><td>Mg</td><td>Mn</td></tr> <tr><td>Mo</td><td>Na</td><td>Ni</td></tr> <tr><td>Pb</td><td>Se</td><td>Si</td></tr> <tr><td>Tr</td><td>V</td><td>Zn</td></tr> <tr><td>Hg</td><td>Sr</td><td>XRF scan</td></tr> </table>	Al	As	B	Ba	Be	Ca	Cd	Co	Cu	K	Mg	Mn	Mo	Na	Ni	Pb	Se	Si	Tr	V	Zn	Hg	Sr	XRF scan
Al	As	B																												
Ba	Be	Ca																												
Cd	Co	Cu																												
K	Mg	Mn																												
Mo	Na	Ni																												
Pb	Se	Si																												
Tr	V	Zn																												
Hg	Sr	XRF scan																												

Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Sample Receiving (Internal Use Only) TEMP (°C): <u>21.2°</u> Initials: <u>#2927</u> Correct pH: Yes <input type="checkbox"/> No <input type="checkbox"/> Preservative Lot #: Date/Time/Init for preservative: Seal intact as received: YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
<u>S. Levy</u>	<u>35594</u>	<u>FED-EX</u>	<u> </u>	<u>10/23/25</u>	<u>1030</u>	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
				<u>10/24/25</u>	<u>9:37</u>	
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)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 705-47195-1

Login Number: 47195

List Number: 1

Creator: Sims, Christian

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: 125915/JM02.08.G01.3

Job ID: 705-47195-1

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
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
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- 1
- 2
- 3
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- 8
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- 14
- 15

END OF REPORT

June 12, 2025

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

Re: ABS Lab Analytical
Work Order: 725156

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 20, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 125915/JM02.8.G013/36110
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 725156 GEL Work Order: 725156

The Qualifiers in this report are defined as follows:

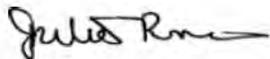
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33008	Project: SOOP00119
Sample ID: 725156001	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-MAY-25 10:28	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.08	+/-0.562	0.829	1.00	pCi/L		JE1	06/10/25	1227	2800725		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.10	+/-0.729	0.771	1.00	pCi/L		RS2	06/09/25	0818	2800929		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.9	(15%-125%)

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33009	Project: SOOP00119
Sample ID: 725156002	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-MAY-25 11:52	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.87	+/-0.486	0.496	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.41	+/-0.684	0.647	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33010	Project: SOOP00119
Sample ID: 725156003	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-MAY-25 11:57	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received"													
Radium-228		1.84	+/-0.583	0.594	1.00	pCi/L		JE1	06/10/25	1227	2800725		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.92	+/-1.30	0.646	1.00	pCi/L		RS2	06/09/25	0818	2800929		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33011	Project: SOOP00119
Sample ID: 725156004	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-MAY-25 13:00	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		0.835	+/-0.451	0.641	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.11	+/-0.590	0.521	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33005	Project: SOOP00119
Sample ID: 725156005	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-MAY-25 10:39	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received"													
Radium-228		2.25	+/-0.719	0.885	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.80	+/-0.960	1.05	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			61.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33006	Project: SOOP00119
Sample ID: 725156006	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-MAY-25 11:43	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.728	+/-0.528	0.837	1.00	pCi/L		JE1	06/10/25	1227	2800725		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.713	+/-0.565	0.791	1.00	pCi/L		RS2	06/09/25	0818	2800929		2

The following Analytical Methods were performed:

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

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

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 12, 2025

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

Client Sample ID: AG33007	Project: SOOP00119
Sample ID: 725156007	Client ID: SOOP001
Matrix: GW	
Collect Date: 13-MAY-25 11:48	
Receive Date: 20-MAY-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.620	+/-0.560	0.914	1.00	pCi/L			JE1	06/10/25	1227	2800725	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.839	+/-0.559	0.634	1.00	pCi/L			RS2	06/09/25	0818	2800929	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			59.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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QC Summary

Report Date: June 12, 2025

Page 1 of 2

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

Contact: Ms. Jeanette Gilmetti
Workorder: 725156

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2800725										
QC1206112521	725156001	DUP									
Radium-228		1.08		1.10	pCi/L	1.68		(0% - 100%)	JE1	06/10/25	12:27
	Uncertainty	+/-0.562		+/-0.500							
QC1206112522	LCS										
Radium-228		27.9		31.6	pCi/L		113	(75%-125%)		06/10/25	12:27
	Uncertainty			+/-1.83							
QC1206112520	MB										
Radium-228			U	0.352	pCi/L					06/10/25	12:27
	Uncertainty			+/-0.368							
Rad Ra-226											
Batch	2800929										
QC1206113064	725156002	DUP									
Radium-226		1.41		1.42	pCi/L	0.625		(0% - 100%)	RS2	06/09/25	08:51
	Uncertainty	+/-0.684		+/-0.644							
QC1206113066	LCS										
Radium-226		54.8		64.0	pCi/L		117	(75%-125%)		06/09/25	08:51
	Uncertainty			+/-4.76							
QC1206113063	MB										
Radium-226			U	0.479	pCi/L					06/09/25	08:51
	Uncertainty			+/-0.600							
QC1206113065	725156002	MS									
Radium-226		136	1.41	155	pCi/L		113	(75%-125%)		06/09/25	08:51
	Uncertainty	+/-0.684		+/-15.1							

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 725156

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.

Technical Case Narrative
Santee Cooper
SDG #: 725156

Radiochemistry

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2800725

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
725156001	AG33008
725156002	AG33009
725156003	AG33010
725156004	AG33011
725156005	AG33005
725156006	AG33006
725156007	AG33007
1206112520	Method Blank (MB)
1206112521	725156001(AG33008) Sample Duplicate (DUP)
1206112522	Laboratory Control Sample (LCS)

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

Data Summary:

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

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2800929

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
725156001	AG33008
725156002	AG33009
725156003	AG33010
725156004	AG33011
725156005	AG33005
725156006	AG33006
725156007	AG33007

1206113063	Method Blank (MB)
1206113064	725156002(AG33009) Sample Duplicate (DUP)
1206113065	725156002(AG33009) Matrix Spike (MS)
1206113066	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Aliquot Reduced

1206113065 (AG33009MS) Aliquot was reduced due to limited sample volume.

Certification Statement

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

Chain of Custody 725156



Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / DM02.08.GP1.3 / 36110 Rerun request for any flagged Q Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	Rad 226/228
AG33008	WAP-30	5/14/25	1028	ATH AGP	2	P	G	GW	2		X
09	WAP-2R		1152								
10	WAP-2R DUP		1157								
11	WAP-28R		1300								
AG33005	CGYP-5	5/13/25	1039								
06	CGYP-6		1143								
07	CGYP-6 DUP		1148								

Nutrients <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 <input type="checkbox"/> Ulfimate <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) 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)
--	---	---	--	--	---	--

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>	35594	<i>[Signature]</i>	GEL	5/20/25	1010	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	5-20-25	1530	

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDG/AR/COC/Work Order: 725156 GEL PM: JR

Received By: CLM Date Received at GEL: 5/20/05

Carrier (Circle Applicable): Priority Client Other: IR Temp gun # IR5-23 Daily Calibration Performed Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radionuclides only)	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radionuclides only)
<u>N/A</u>	<u>23</u>	<input checked="" type="checkbox"/>			

Suspected Hazard Information

Yes	No	Comments
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: <u>UN#:</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
<input type="checkbox"/>	<input checked="" type="checkbox"/>	CO's listed on this receipt to select on containers equal client designation.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM mR/Hr
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Classified as: Rad 1 Rad 2 Rad 3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	If yes, select Hazards below.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice <u>None</u> Other: *all temperatures recorded next to (making 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#:
6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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 seals affected:
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:

PM (or PMA) review: Initials JR Date 5/20/05

Continuation Form Required when selected

List of current GEL Certifications as of 12 June 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

August 05, 2025

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

Re: ABS Lab Analytical
Work Order: 732911

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 11, 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: 732911 GEL Work Order: 732911

The Qualifiers in this report are defined as follows:

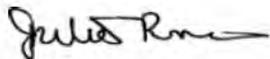
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 5, 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: AG36887	Project: SOOP00119
Sample ID: 732911001	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 12:18	
Receive Date: 11-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		1.74	+/-0.608	0.762	1.00	pCi/L		CH7	08/04/25	0854	2828511		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.670	+/-0.470	0.461	1.00	pCi/L		AW6	08/04/25	0825	2828268		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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 5, 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: AG36888	Project: SOOP00119
Sample ID: 732911002	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 12:23	
Receive Date: 11-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		1.96	+/-0.573	0.665	1.00	pCi/L			CH7	08/04/25	0854	2828511	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.697	+/-0.465	0.551	1.00	pCi/L			AW6	08/04/25	0825	2828268	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"			71.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 5, 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: AG36893	Project: SOOP00119
Sample ID: 732911003	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 14:27	
Receive Date: 11-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		2.63	+/-0.652	0.696	1.00	pCi/L			CH7	08/04/25	0854	2828511	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.30	+/-0.691	0.664	1.00	pCi/L			AW6	08/04/25	0825	2828268	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	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 5, 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: AG36889	Project: SOOP00119
Sample ID: 732911004	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 11:30	
Receive Date: 11-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		1.16	+/-0.492	0.659	1.00	pCi/L			CH7	08/04/25	0854	2828511	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.606	+/-0.458	0.586	1.00	pCi/L			AW6	08/04/25	0825	2828268	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"			73.4	(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: August 5, 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: AG36891	Project: SOOP00119
Sample ID: 732911005	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 13:19	
Receive Date: 11-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	0.202	+/-0.396	0.703	1.00	pCi/L		CH7	08/04/25	0854	2828511		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.13	+/-0.559	0.466	1.00	pCi/L		AW6	08/04/25	0825	2828268		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 5, 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: AG36904	Project: SOOP00119
Sample ID: 732911006	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 15:50	
Receive Date: 11-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	0.553	+/-0.467	0.747	1.00	pCi/L		CH7	08/04/25	0854	2828511		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.867	+/-0.543	0.483	1.00	pCi/L		AW6	08/04/25	0900	2828268		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			67.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 5, 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: AG36905	Project: SOOP00119
Sample ID: 732911007	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 15:55	
Receive Date: 11-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		1.26	+/-0.515	0.688	1.00	pCi/L			CH7	08/04/25	0854	2828511	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.338	+/-0.301	0.359	1.00	pCi/L			AW6	08/04/25	0825	2828268	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.3	(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: August 5, 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: AG36919	Project: SOOP00119
Sample ID: 732911008	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 09:42	
Receive Date: 11-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		2.03	+/-0.583	0.668	1.00	pCi/L		CH7	08/04/25	0854	2828511		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.840	+/-0.531	0.609	1.00	pCi/L		AW6	08/04/25	0825	2828268		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 5, 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: AG36920	Project: SOOP00119
Sample ID: 732911009	Client ID: SOOP001
Matrix: GW	
Collect Date: 09-JUL-25 10:28	
Receive Date: 11-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		1.73	+/-0.699	0.944	1.00	pCi/L			CH7	08/04/25	0854	2828511	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.531	+/-0.375	0.415	1.00	pCi/L			AW6	08/04/25	0900	2828268	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			55.7	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 5, 2025

Page 1 of 2

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

Contact:
Workorder: 732911

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2828511										
QC1206167022	LCS										
Radium-228	27.4			33.0	pCi/L		120	(75%-125%)	CH7	08/04/25	08:54
	Uncertainty			+/-1.88							
QC1206172920	LCSD										
Radium-228	27.4			24.7	pCi/L	28.7 *	90	(0%-20%)		08/04/25	08:54
	Uncertainty			+/-1.72							
QC1206167020	MB										
Radium-228				0.935	pCi/L					08/04/25	08:54
	Uncertainty			+/-0.467							
Rad Ra-226											
Batch	2828268										
QC1206166506	732911001	DUP									
Radium-226		0.670		0.978	pCi/L	37.3		(0% - 100%)	AW6	08/04/25	09:00
	Uncertainty	+/-0.470		+/-0.589							
QC1206166508	LCS										
Radium-226	27.1			24.9	pCi/L		92.1	(75%-125%)		08/04/25	09:00
	Uncertainty			+/-2.47							
QC1206166505	MB										
Radium-226			U	0.280	pCi/L					08/04/25	09:00
	Uncertainty			+/-0.422							
QC1206166507	732911001	MS									
Radium-226	137	0.670		126	pCi/L		91.3	(75%-125%)		08/04/25	09:00
	Uncertainty	+/-0.470		+/-13.1							

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

GEL LABORATORIES LLC

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QC Summary

Workorder: 732911

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 #: 732911**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2828511

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
732911001	AG36887
732911002	AG36888
732911003	AG36893
732911004	AG36889
732911005	AG36891
732911006	AG36904
732911007	AG36905
732911008	AG36919
732911009	AG36920
1206167020	Method Blank (MB)
1206167022	Laboratory Control Sample (LCS)
1206172920	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
1206167020 (MB)	Radium-228	Result: 0.935 pCi/L > MDA: 0.667 pCi/L <= RDL: 1.00 pCi/L

Duplication Criteria between LCS and LCSD

The Laboratory Control Sample and Laboratory Control Sample Duplicate (See Below) do not meet the duplication requirement; however, they both meet the spiked recovery requirement.

Sample	Analyte	Value
1206167022 (LCS) and 1206172920 (LCSD)	Radium-228	RPD 28.7* (0%-20%)

Technical Information

Recounts

Samples were re-eluted and recounted due to high recovery. The recounts are reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2828268

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
732911001	AG36887
732911002	AG36888
732911003	AG36893
732911004	AG36889
732911005	AG36891
732911006	AG36904
732911007	AG36905
732911008	AG36919
732911009	AG36920
1206166505	Method Blank (MB)
1206166506	732911001(AG36887) Sample Duplicate (DUP)
1206166507	732911001(AG36887) Matrix Spike (MS)
1206166508	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**

1206166506 (AG36887DUP) and 1206166507 (AG36887MS) Aliquots were reduced due to limited sample volume.

Certification Statement

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

Chain of Custody

732911



Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JMO2.09.G01.1 / 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
AG36887	WAP-14	7/9/25	1218	ASP EA	2	P	G	GW	2	
88	WAP-14 DUP		1223							
93	WAP-16		1427							
AG36889	WAP-14A		1130							
71	WAP-14C		1319							
904	WAP-26		1550							
05	WAP-26 DUP		1555							
AG36919	WLF-A2-1		0942							
20	WLF-A2-2		1028							

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 <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"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength <input type="checkbox"/> IFT <input type="checkbox"/> Dissolved Gas Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> 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	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)
--	---	---	--	--	---	--

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	7/11/25	0559	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	7/11/25	1632	



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDG/AR/COC/Work Order: 732911 GEL PM: JP

Received By: CLM Date Received at GEL: 7/14/25

Carrier: Courier Client Other: IR Temp gun # R5-23 Daily Calibration Performed? Y

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie nuclechem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie nuclechem only).
<u>N/A</u>	<u>21</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? Hazard Class Shipped: _____ UN#: _____

B) Did the client designate the samples to be received as radioactive? If UN2910, is the Radioactive Shipment Survey Compliant? Yes ___ No ___

C) Did the RSO classify the samples as radioactive? COC notation on radioactive stickers on containers equal client designation

Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/umR/Hr

Classified as: Rad 1 Rad 2 Rad 3

D) Are there any sample hazards to document? If yes, select Hazards below: DCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____

E) Was a SDS received and reviewed by Lab Safety? Circs 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: Wet Ice 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"/>	<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 Pretzler) 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: _____
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:

PM (or PMA) review: Initials JP Date 7/14/25

Continuation Form Required when selected

List of current GEL Certifications as of 05 August 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

August 06, 2025

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

Re: ABS Lab Analytical
Work Order: 732907

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 11, 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.G01.1/36500
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: 732907 GEL Work Order: 732907

The Qualifiers in this report are defined as follows:

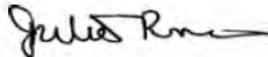
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36897	Project: SOOP00119
Sample ID: 732907001	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 10:07	
Receive Date: 11-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		2.27	+/-0.717	0.859	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.08	+/-0.393	0.350	1.00	pCi/L		AW6	08/06/25	1011	2828267		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			55.7	(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: August 6, 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: AG36929	Project: SOOP00119
Sample ID: 732907002	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 10:12	
Receive Date: 11-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	0.615	+/-0.548	0.888	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.185	+/-0.191	0.283	1.00	pCi/L		AW6	08/06/25	1011	2828267		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			57.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36921 Project: SOOP00119
Sample ID: 732907003 Client ID: SOOP001
Matrix: GW
Collect Date: 07-JUL-25 15:20
Receive Date: 11-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		0.978	+/-0.571	0.846	1.00	pCi/L			HH3	07/29/25	0841	2828509	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.443	+/-0.239	0.226	1.00	pCi/L			AW6	08/06/25	1011	2828267	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"			57.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36922	Project: SOOP00119
Sample ID: 732907004	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 15:25	
Receive Date: 11-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	0.745	+/-0.613	0.980	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.292	+/-0.292	0.472	1.00	pCi/L		AW6	08/06/25	1011	2828267		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"			56.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36931	Project: SOOP00119
Sample ID: 732907005	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 15:25	
Receive Date: 11-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	0.690	+/-0.590	0.950	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.348	+/-0.251	0.358	1.00	pCi/L		AW6	08/06/25	1011	2828267		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: August 6, 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: AG36901	Project: SOOP00119
Sample ID: 732907006	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 11:37	
Receive Date: 11-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		1.27	+/-0.522	0.706	1.00	pCi/L			HH3	07/29/25	0841	2828509	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.79	+/-0.501	0.269	1.00	pCi/L			AW6	08/06/25	1011	2828267	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"			69.4	(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: August 6, 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: AG36910	Project: SOOP00119
Sample ID: 732907007	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 13:28	
Receive Date: 11-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		2.11	+/-0.636	0.757	1.00	pCi/L			HH3	07/29/25	0841	2828509	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.815	+/-0.410	0.520	1.00	pCi/L			AW6	08/06/25	1043	2828267	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36906	Project: SOOP00119
Sample ID: 732907008	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-JUL-25 12:30	
Receive Date: 11-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		1.74	+/-0.562	0.696	1.00	pCi/L			HH3	07/29/25	0841	2828509	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.898	+/-0.345	0.320	1.00	pCi/L			AW6	08/06/25	1043	2828267	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

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 6, 2025

Page 1 of 2

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

Contact:
Workorder: 732907

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2828509										
QC1206167019	LCS										
Radium-228	27.5			22.7	pCi/L		82.8	(75%-125%)	HH3	07/29/25	08:41
	Uncertainty			+/-1.57							
QC1206169744	LCSD										
Radium-228	27.5			33.1	pCi/L	37.3 *	121	(0%-20%)		07/29/25	08:41
	Uncertainty			+/-1.88							
QC1206167017	MB										
Radium-228			U	0.321	pCi/L					07/29/25	10:06
	Uncertainty			+/-0.461							
Rad Ra-226											
Batch	2828267										
QC1206166502	732904002	DUP									
Radium-226		0.650		0.601	pCi/L	7.76		(0% - 100%)	AW6	08/06/25	10:43
	Uncertainty	+/-0.361		+/-0.293							
QC1206166504	LCS										
Radium-226	27.1			25.1	pCi/L		92.6	(75%-125%)		08/06/25	10:43
	Uncertainty			+/-1.62							
QC1206166501	MB										
Radium-226			U	0.178	pCi/L					08/06/25	10:43
	Uncertainty			+/-0.305							
QC1206166503	732904002	MS									
Radium-226	134	0.650		121	pCi/L		89.9	(75%-125%)		08/06/25	10:43
	Uncertainty	+/-0.361		+/-8.31							

- 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: 732907

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 #: 732907**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2828509

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
732907001	AG36897
732907002	AG36929
732907003	AG36921
732907004	AG36922
732907005	AG36931
732907006	AG36901
732907007	AG36910
732907008	AG36906
1206167017	Method Blank (MB)
1206167019	Laboratory Control Sample (LCS)
1206169744	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

Duplication Criteria between LCS and LCSD

The Laboratory Control Sample and Laboratory Control Sample Duplicate (See Below) do not meet the duplication requirement; however, they both meet the spiked recovery requirement.

Sample	Analyte	Value
1206167019 (LCS) and 1206169744 (LCSD)	Radium-228	RPD 37.3* (0%-20%)

Technical Information

Recounts

Sample 1206167017 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2828267

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
732907001	AG36897
732907002	AG36929
732907003	AG36921
732907004	AG36922
732907005	AG36931
732907006	AG36901
732907007	AG36910
732907008	AG36906
1206166501	Method Blank (MB)
1206166502	732904002(AG36899) Sample Duplicate (DUP)
1206166503	732904002(AG36899) Matrix Spike (MS)
1206166504	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1206166503 (AG36899MS), 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

732907



Customer Email/Report Recipient: LINDA.WILLIAMS@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JM02.08.G01.1 / 36500 Rerun request for any flagged QI: Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228
AG36897	WAP-19	7/7/25	1007	AGP EAT	2	P	G	GW	2		X
AG36929	WAP-19F	↓	1012	↓	↓	↓	↓	↓	↓		↓
AG36921	WLF-A2-6	↓	1520	↓	↓	↓	↓	↓	↓		↓
AG36922	WLF-A2-6 DUP	↓	1525	↓	↓	↓	↓	↓	↓		↓
AG36931	WLF-A2-6F	↓	1525	↓	↓	↓	↓	↓	↓		↓
AG36901	WAP-23	↓	1137	↓	↓	↓	↓	↓	↓		↓
AG36910	WAP-30	↓	1328	↓	↓	↓	↓	↓	↓		↓
AG36906	WAP-27	↓	1230	↓	↓	↓	↓	↓	↓		↓

Nutrients TOC DOC TP, TPO4 NH3-N F Cl NO2 Br NO3 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 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) 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) <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	7/11/25	0850	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	7-11-25	1632	

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: SOOP SDG/AR/COC/Work Order: 732907 GEL PM: JP

Received By: CLM Date Received at GEL: 7/11/25

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

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (to radionuclides only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (to radionuclides only).
<u>N/A</u>	<u>21</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 DCT Hazardous? Hazard Class Shipped: UN#
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? COC to allow on release with radionuclide container equal to that designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3
 If yes, select Hazards below.

D) Are there any sample hazards to document? PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:

E) Was a SDS received and reviewed by Lab Safety? Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<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: Wet Ice 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"/>	<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: _____
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:

PM (or PMA) review Initials JP Date 7/14/25

Continuation Form Required when selected

List of current GEL Certifications as of 06 August 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

August 13, 2025

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

Re: ABS Lab Analytical
Work Order: 734048

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 18, 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,

Christopher Rossmann for
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: 734048 GEL Work Order: 734048

The Qualifiers in this report are defined as follows:

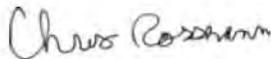
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 13, 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: AG36886 Project: SOOP00119
Sample ID: 734048001 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 14-JUL-25 10:18
Receive Date: 18-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		1.25	+/-0.577	0.795	1.00	pCi/L			CH7	07/31/25	1059	2833531	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.639	+/-0.326	0.340	1.00	pCi/L			LB2	08/13/25	0808	2836561	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"			84.7	(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: August 13, 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: AG36907	Project: SOOP00119
Sample ID: 734048002	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 14-JUL-25 11:34	
Receive Date: 18-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		1.14	+/-0.509	0.700	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.14	+/-0.348	0.203	1.00	pCi/L			LB2	08/13/25	0808	2836561	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"			77.1	(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

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Certificate of Analysis

Report Date: August 13, 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: AG36908	Project: SOOP00119
Sample ID: 734048003	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 14-JUL-25 12:31	
Receive Date: 18-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	0.558	+/-0.456	0.713	1.00	pCi/L		CH7	07/31/25	1054	2833531		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.337	+/-0.303	0.461	1.00	pCi/L		LB2	08/13/25	0808	2836561		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"			78.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 13, 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: AG36894	Project: SOOP00119
Sample ID: 734048004	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 14-JUL-25 13:48	
Receive Date: 18-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		1.94	+/-0.656	0.731	1.00	pCi/L			CH7	07/31/25	1054	2833531	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.802	+/-0.314	0.227	1.00	pCi/L			LB2	08/13/25	0808	2836561	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 13, 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: AG36895 Project: SOOP00119
Sample ID: 734048005 Client ID: SOOP001
Matrix: Ground Water
Collect Date: 14-JUL-25 13:53
Receive Date: 18-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		1.67	+/-0.583	0.711	1.00	pCi/L		CH7	07/31/25	1054	2833531	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.987	+/-0.380	0.352	1.00	pCi/L		LB2	08/13/25	0808	2836561	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	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 13, 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: AG36884	Project: SOOP00119
Sample ID: 734048006	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 10-JUL-25 13:39	
Receive Date: 18-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		4.27	+/-0.806	0.715	1.00	pCi/L		CH7	07/31/25	1054	2833531		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.28	+/-0.534	0.387	1.00	pCi/L		LB2	08/13/25	0808	2836561		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"			78.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 13, 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: AG36885	Project: SOOP00119
Sample ID: 734048007	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 10-JUL-25 13:44	
Receive Date: 18-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		4.06	+/-0.728	0.678	1.00	pCi/L			CH7	07/31/25	1230	2833531	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.41	+/-0.436	0.422	1.00	pCi/L			LB2	08/13/25	0808	2836561	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"			81.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 13, 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: AG36903	Project: SOOP00119
Sample ID: 734048008	Client ID: SOOP001
Matrix: Ground Water	
Collect Date: 10-JUL-25 10:13	
Receive Date: 18-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	0.736	+/-0.597	0.943	1.00	pCi/L		CH7	08/04/25	0954	2833531		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.294	+/-0.199	0.225	1.00	pCi/L		LB2	08/13/25	0808	2836561		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"			29.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 13, 2025

Page 1 of 2

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

Contact:
Workorder: 734048

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2833531										
QC1206176165	LCS										
Radium-228	27.4			28.2	pCi/L		103	(75%-125%)	CH7	07/31/25	10:59
	Uncertainty			+/-1.85							
QC1206177760	LCSD										
Radium-228	27.4			30.1	pCi/L	6.58	110	(0%-20%)		07/31/25	10:56
	Uncertainty			+/-1.92							
QC1206176163	MB										
Radium-228				0.911	pCi/L					07/31/25	10:59
	Uncertainty			+/-0.498							
Rad Ra-226											
Batch	2836561										
QC1206182077	734048001	DUP									
Radium-226		0.639		1.40	pCi/L	74.7		(0% - 100%)	LB2	08/13/25	08:46
	Uncertainty	+/-0.326		+/-0.418							
QC1206182081	LCS										
Radium-226	27.2			24.5	pCi/L		90.1	(75%-125%)		08/13/25	09:19
	Uncertainty			+/-1.72							
QC1206182076	MB										
Radium-226			U	0.0842	pCi/L					08/13/25	08:46
	Uncertainty			+/-0.182							
QC1206182078	734048001	MS									
Radium-226	134	0.639		103	pCi/L		76.6	(75%-125%)		08/13/25	09:19
	Uncertainty	+/-0.326		+/-7.47							

- 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

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QC Summary

Workorder: 734048

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 #: 734048**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2833531

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
734048001	AG36886
734048002	AG36907
734048003	AG36908
734048004	AG36894
734048005	AG36895
734048006	AG36884
734048007	AG36885
734048008	AG36903
1206176163	Method Blank (MB)
1206176165	Laboratory Control Sample (LCS)
1206177760	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
1206176163 (MB)	Radium-228	Result: 0.911 pCi/L > MDA: 0.708 pCi/L <= RDL: 1.00 pCi/L

Technical Information

Recounts

Sample 734048007 (AG36885) was recounted to verify sample results. Recount is reported.

Sample 734048008 (AG36903) was re-eluted and recounted to verify sample result. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2836561

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
734048001	AG36886
734048002	AG36907
734048003	AG36908
734048004	AG36894
734048005	AG36895
734048006	AG36884
734048007	AG36885
734048008	AG36903
1206182076	Method Blank (MB)
1206182077	734048001(AG36886) Sample Duplicate (DUP)
1206182078	734048001(AG36886) Matrix Spike (MS)
1206182081	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1206182078 (AG36886MS), 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.

SAMPLE RECEIPT & REVIEW FORM

Client: **SOOP** SDG/AR/COC/Work Order: **734048**
 Received By: **SLB** Date Received at GEL: **7-18-25** GEL PM:

Shipping Method: FedEx Express FedEx Ground UPS Field Services Courier Client Other:
 IR Temp gun # **IR4-24** Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radionuclides only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radionuclides only).
1	21				

5. 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: UN31
<input type="checkbox"/>	<input checked="" type="checkbox"/>	If UN2910, is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	COG: CPM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Classified as: Rad 1 Rad 2 Rad 3
<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: Chain completed 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: Wet Ice 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:
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 preservation added, List: If Yes, are Electrodes or Soil Kits present? Yes <input type="checkbox"/> No <input type="checkbox"/> (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (if blank/over, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (if blank/over, select No) 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:
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 abbreviated/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials **CL** Date **7/22/25**
 Continuation Form Required when selected

List of current GEL Certifications as of 13 August 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

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:

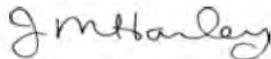
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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: 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

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: 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

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: 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

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: 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

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: 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

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: 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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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

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Company : Santee Cooper
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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	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

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Company : Santee Cooper
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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	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

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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: 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

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Company : Santee Cooper
Address : P.O. Box 2946101
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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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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	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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Company : Santee Cooper
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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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Company : Santee Cooper
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 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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Report Date: March 28, 2025

Company : Santee Cooper
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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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Parmname	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
 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: 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
 Address : P.O. Box 2946101
 OCO3
 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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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	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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Company : Santee Cooper
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 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
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 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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 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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 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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 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
 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: 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
 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: 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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 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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 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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Company : Santee Cooper
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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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Certificate of Analysis

Report Date: March 28, 2025

Company : Santee Cooper
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 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	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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Company : Santee Cooper
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 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
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 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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 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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 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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Company : Santee Cooper
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 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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Company : Santee Cooper
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 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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Report Date: March 28, 2025

Company : Santee Cooper
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 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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 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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Company : Santee Cooper
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 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
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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

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

QC Summary

Workorder: 711428

Page 3 of 3

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
H	Analytical holding time was exceeded										
<	Result is less than value reported										
>	Result is greater than value reported										
UI	Gamma Spectroscopy--Uncertain identification										
BD	Results are either below the MDC or tracer recovery is low										
h	Preparation or preservation holding time was exceeded										
R	Sample results are rejected										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
M	M if above MDC and less than LLD										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
FA	Failed analysis.										
UJ	Gamma Spectroscopy--Uncertain identification										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.										
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.

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.

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

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 @santecooper.com _____ / _____ / _____ 125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	RAD 226/228	F, Cl, SO4
AG 25153	WAP-22	2/27/25	1219	ATH SB	3	P	G	GW	2 + 1		2	1
AG 25129	WAP-7	2/25/25	1142	MDE SB	3	P	G	GW	2 + 1		2	1

Nutrients TOC DOC TP/TPO4 NH3-N F Cl NO2 Br NO3 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 <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 % Moisture Color Acidity Dielectric Strength IFT Dissolved Gases Used Oil Flashpoint 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) <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:
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	
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)

RAD 3/28/25

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



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 @santecooper.com

125915 / JMO2-08. G#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	RAD 226/228	F, Cl, SO4	C1, SO4
AG25125	WAP-3	2/24/25	1115	ATH SB	3	P	G	GW	2+ 1+		2	+	0
AG25135	WAP-11	2/24/25	1003		1	P	G	GW	-		0	0	1
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	MPG 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 Trans. Oil Quality %Moisture Color Acidity Dielectric strength IFT Dissolved Gases Used Oil Flashpoint 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	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	

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 & sheri.levy@santecooper.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 #:

Run request for any flagged QC

LJUNDA . WILLIAMS

@santecooper.com

125915 / JM02.09.G#1.1 / 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/PO4 <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 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 Used Oil <input type="checkbox"/> Elutriate <input type="checkbox"/> Metals (As, Cd, Cr, 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"/> 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>				
<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)

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



Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA.WILLIAMS

@santecooper.com

125915 / JMO2.08. GP1.1 / 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	WPW-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 type="checkbox"/> SO4	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> AIM <input type="checkbox"/> TOC <input type="checkbox"/> Soluble 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 Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Color <input type="checkbox"/> Acidity <input type="checkbox"/> Dielectric Strength (IFT) <input type="checkbox"/> Dissolved Gases Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> 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 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)
--	---	---	--	--	---	--

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	
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)

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDGAR/COC/Work Order: 711428 GEL PM: JR

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

Carrier (Check Applicable): FedEx Express FedEx Ground UPS Field Service 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 radionuclides only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radionuclides 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? Hazard Class Shipped: _____ UN#: _____
If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples not to be received as radioactive? COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/10R/Hr
Classified as: Rad 1 Rad 2 Rad 3

D) Are there any sample hazards to document? If yes, select Hazards below.
PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____

E) Was a SDS received and reviewed by Lab Safety? Circle Applicable: See additional Comments below No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<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 <u>None</u> 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:
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 Preservation added, Log# _____ 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:
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:

PM (or PMA) review: Initials mcg 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:

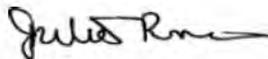
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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: 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

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: 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

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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: 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

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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: 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

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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: 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:
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: LINDA.WILLIAMS@santecooper.com Date Results Needed by: / / Project/Task/Unit #: 125915 / JMO2.08. G61.3 / 36110 Run request for any flagged Q Yes No

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"/> Sulfates <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	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"/> 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 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>S. Levy</i>	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 checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
	<input checked="" type="checkbox"/>	A) Shipped as a DOT Hazardous? _____ B) Did the client designate the samples are to be received as radioactive? _____ COC notation on radioactive stickers on containers equal client designation
	<input checked="" type="checkbox"/>	C) Did the RSO classify the samples as radioactive? _____ Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ Classified as: Rad 1 Rad 2 Rad 3 <u>0</u> (CPM/yr/Hr)
	<input checked="" type="checkbox"/>	D) Are there any sample hazards to document? _____ If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____
	<input checked="" type="checkbox"/>	E) Was a SDS received and reviewed by Lab Safety? _____ Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<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 None 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: If Preservation added, Lot#: _____
6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			<input checked="" type="checkbox"/>	If Yes, are Encores or Sall 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: <u>24 Ammonia test 125 plastic ml</u>
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: 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:

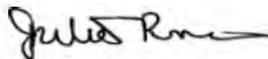
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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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: 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

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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: 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

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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: 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

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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: 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

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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

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: 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

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: 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

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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: 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"/> All metals <input type="checkbox"/> AL <input type="checkbox"/> As <input type="checkbox"/> Barium <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Lead <input type="checkbox"/> Manganese <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Selenium <input type="checkbox"/> Silver <input type="checkbox"/> Sulfate <input type="checkbox"/> TSS <input type="checkbox"/> Vanadium <input type="checkbox"/> Zinc	<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) TEMP (°C): _____ Initials: _____ Correct pH: Yes No Preservative Lot #: Date/Time/Init for preservative:
<i>S. Levy</i>	35594	<i>[Signature]</i>	GEL	7/1/25	0950	
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	7.1.25	16281650	

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 radchem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radchem only).
<u>COOLER</u>	<u>2°</u>				
<u>COOLER</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? Hazard Class Shipped: _____ UN#: _____
 If UN2910, is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM/mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Are there any sample hazards to document? If yes, select Hazards below:
 PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____

E) Was a SDS received and reviewed by Lab Safety? Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<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"/>	<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"/>	<input checked="" 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"/>		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"/>		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"/>		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"/>		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"/>		IDs and containers affected: _____
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<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"/>	<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"/>	<input checked="" type="checkbox"/>		
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" 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

April 04, 2025

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

Re: ABS Lab Analytical
Work Order: 712960

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 07, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Max Gloth for
Julie Robinson
Project Manager

Purchase Order: 125915/JM02.08.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: 712960 GEL Work Order: 712960

The Qualifiers in this report are defined as follows:

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

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 4, 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: AG25146 Project: SOOP00119
Sample ID: 712960003 Client ID: SOOP001
Matrix: GW
Collect Date: 04-MAR-25 12:00
Receive Date: 07-MAR-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		226	6.70	20.0	mg/L		100	CH6	03/08/25	2229	2762349	1
Sulfate		749	13.3	40.0	mg/L		100					
Fluoride	U	0.0660	0.0660	0.200	mg/L		2	CH6	03/10/25	1636	2762349	2

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 4, 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: AG25147 Project: SOOP00119
Sample ID: 712960004 Client ID: SOOP001
Matrix: GW
Collect Date: 04-MAR-25 12:05
Receive Date: 07-MAR-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		221	6.70	20.0	mg/L		100	CH6	03/08/25	2300	2762349	1
Sulfate		759	13.3	40.0	mg/L		100					
Fluoride	U	0.0660	0.0660	0.200	mg/L		2	CH6	03/10/25	1707	2762349	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: April 4, 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: AG25149 Project: SOOP00119
Sample ID: 712960005 Client ID: SOOP001
Matrix: GW
Collect Date: 04-MAR-25 14:05
Receive Date: 07-MAR-25
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Fluoride, Liquid "As Received"												
Sulfate		1550	26.6	80.0	mg/L		200	CH6	03/08/25	2331	2762349	1
Chloride		45.5	0.335	1.00	mg/L		5	CH6	03/10/25	1738	2762349	2
Fluoride	J	0.450	0.165	0.500	mg/L		5					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 4, 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: AG25150 Project: SOOP00119
Sample ID: 712960006 Client ID: SOOP001
Matrix: GW
Collect Date: 04-MAR-25 14:10
Receive Date: 07-MAR-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		0.506	0.0670	0.200	mg/L		1	CH6	03/09/25	0001	2762349	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

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

QC Summary

Report Date: April 4, 2025

Page 1 of 2

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

Contact:
Workorder: 712960

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2762349										
QC1206030019	712960006	DUP									
Chloride		0.506		0.508	mg/L	0.414	^	(+/-0.200)	CH6	03/09/25	01:34
Fluoride	U	0.0330	U	0.0330	mg/L	N/A					
Sulfate	U	0.133	U	0.133	mg/L	N/A					
QC1206030016	LCS										
Chloride	5.00			4.60	mg/L		92	(90%-110%)		03/08/25	17:20
Fluoride	2.50			2.42	mg/L		96.7	(90%-110%)			
Sulfate	10.0			9.67	mg/L		96.7	(90%-110%)			
QC1206030015	MB										
Chloride			U	0.0670	mg/L					03/08/25	16:50
Fluoride			U	0.0330	mg/L						
Sulfate			U	0.133	mg/L						
QC1206030020	712960006	PS									
Chloride	5.00	0.506		5.17	mg/L		93.4	(90%-110%)		03/09/25	03:05
Fluoride	2.50	U 0.000		2.51	mg/L		100	(90%-110%)			
Sulfate	10.0	U 0.000		9.79	mg/L		97.9	(90%-110%)			

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QC Summary

Workorder: 712960

Page 2 of 2

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

Notes:

The Qualifiers in this report are defined as follows:

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

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

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

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

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

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 4, 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: AG25173	Project: SOOP00119
Sample ID: 712960001	Client ID: SOOP001
Matrix: GW	
Collect Date: 04-MAR-25 10:04	
Receive Date: 07-MAR-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received"													
Radium-228		1.25	+/-0.579	0.859	1.00	pCi/L			HH3	04/01/25	0922	2763857	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.89	+/-0.571	0.328	1.00	pCi/L			RS2	04/03/25	1121	2770370	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"			82.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 4, 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: AG25174	Project: SOOP00119
Sample ID: 712960002	Client ID: SOOP001
Matrix: GW	
Collect Date: 04-MAR-25 11:03	
Receive Date: 07-MAR-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		1.35	+/-0.594	0.858	1.00	pCi/L			HH3	04/01/25	0923	2763857	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.348	+/-0.269	0.333	1.00	pCi/L			RS2	04/03/25	1121	2770370	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 4, 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: AG25146	Project: SOOP00119
Sample ID: 712960003	Client ID: SOOP001
Matrix: GW	
Collect Date: 04-MAR-25 12:00	
Receive Date: 07-MAR-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		1.54	+/-0.566	0.776	1.00	pCi/L			HH3	04/01/25	0923	2763857	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.51	+/-0.473	0.282	1.00	pCi/L			RS2	04/03/25	1121	2770370	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"			79.9	(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: April 4, 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: AG25147	Project: SOOP00119
Sample ID: 712960004	Client ID: SOOP001
Matrix: GW	
Collect Date: 04-MAR-25 12:05	
Receive Date: 07-MAR-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	+/-0.395	0.459	1.00	pCi/L			HH3	04/01/25	0923	2763857	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.21	+/-0.446	0.308	1.00	pCi/L			RS2	04/03/25	1121	2770370	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

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Certificate of Analysis

Report Date: April 4, 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: AG25149	Project: SOOP00119
Sample ID: 712960005	Client ID: SOOP001
Matrix: GW	
Collect Date: 04-MAR-25 14:05	
Receive Date: 07-MAR-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		0.832	+/-0.362	0.455	1.00	pCi/L			HH3	04/01/25	0923	2763857	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.636	+/-0.356	0.348	1.00	pCi/L			RS2	04/03/25	1121	2770370	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"			82.1	(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

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Certificate of Analysis

Report Date: April 4, 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: AG25150	Project: SOOP00119
Sample ID: 712960006	Client ID: SOOP001
Matrix: GW	
Collect Date: 04-MAR-25 14:10	
Receive Date: 07-MAR-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	0.514	+/-0.419	0.664	1.00	pCi/L			HH3	04/01/25	0923	2763857	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.728	+/-0.385	0.410	1.00	pCi/L			RS2	04/03/25	1218	2770370	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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QC Summary

Report Date: April 4, 2025

Page 1 of 2

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

Contact:
Workorder: 712960

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2763857										
QC1206033539	712960001	DUP									
Radium-228				1.25		34.6		(0% - 100%)	HH3	04/01/25	09:23
			Uncertainty	+/-0.579							
QC1206033540	LCS										
Radium-228				28.4			104	(75%-125%)		04/01/25	09:23
			Uncertainty								
QC1206033538	MB										
Radium-228						0.647				04/01/25	09:24
			Uncertainty			+/-0.363					
Rad Ra-226											
Batch	2770370										
QC1206046985	712960002	DUP									
Radium-226				0.348		6.3		(0% - 100%)	RS2	04/03/25	12:53
			Uncertainty	+/-0.269							
QC1206046984	LCS										
Radium-226				27.2			95.3	(75%-125%)		04/03/25	12:53
			Uncertainty								
QC1206046981	MB										
Radium-226			U			0.0887				04/03/25	12:53
			Uncertainty			+/-0.369					
QC1206046986	712960002	MS									
Radium-226				133			77	(75%-125%)		04/03/25	15:55
			Uncertainty	+/-0.269							

- 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

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QC Summary

Workorder: 712960

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.

Technical Case Narrative
Santee Cooper
SDG #: 712960

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

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

Analytical Batch: 2762349

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
712960001	AG25173
712960002	AG25174
712960003	AG25146
712960004	AG25147
712960005	AG25149
712960006	AG25150
1206030015	Method Blank (MB)
1206030016	Laboratory Control Sample (LCS)
1206030019	712960006(AG25150) Sample Duplicate (DUP)
1206030020	712960006(AG25150) 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 712960001 (AG25173), 712960002 (AG25174) and 712960005 (AG25149) were diluted because target analyte concentrations exceeded the calibration range. Samples 712960003 (AG25146), 712960004 (AG25147) and 712960005 (AG25149) were diluted to minimize matrix effects on instrument performance. Sample 712960005 (AG25149) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	712960				
	001	002	003	004	005
Chloride	20X	20X	100X	100X	5X
Fluoride	1X	1X	2X	2X	5X
Sulfate	20X	20X	100X	100X	200X

Radiochemistry

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2763857

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
712960001	AG25173
712960002	AG25174
712960003	AG25146
712960004	AG25147
712960005	AG25149
712960006	AG25150
1206033538	Method Blank (MB)
1206033539	712960001(AG25173) Sample Duplicate (DUP)
1206033540	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
1206033538 (MB)	Radium-228	Result: 0.647 pCi/L > MDA: 0.528 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: 2770370

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
712960001	AG25173
712960002	AG25174
712960003	AG25146
712960004	AG25147
712960005	AG25149
712960006	AG25150
1206046981	Method Blank (MB)
1206046984	Laboratory Control Sample (LCS)

1206046985 712960002(AG25174) Sample Duplicate (DUP)
1206046986 712960002(AG25174) 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 1206046986 (AG25174MS) was recounted due to low recovery. 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 - 4/4/25

712960

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 17 / 25

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



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

Chain of Custody

Customer Email/Report Recipient:

Date Results Needed by:

Project/Task/Unit #:

Rerun request for any flagged QC

LINDA WILLIAMS @santecooper.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	RAD 226/228	F, Cl, SO4
AG25113	WLF-A2-1	3/4/25	1004	EM/DA	3	P	G	GW	2+		2	1
74	WLF-A2-2		1103		3	P					2	1
46	WAP-17		1200		3	P					2	1
47	WAP-17 DUP		1205		3	P					2	1
49	WAP-19		1405		3	P					2	1
50	WAP-19F		1410		3	P					2	1

Nutrients TOC DOC TP/TP04 NH3-N F Cl NO2 Br NO3 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"/> Sulfur <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 Color Acidity Dielectric Strength IFT Dissolved Gases Used Oil Flashpoint 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) <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: _____
	36857		GEL	3/7/25	0841	
	GEL		GEL	3.7.25	1529	
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=49C 2=HNO3 3=H2SO4 4=HCl 5=Na2S2O5 6=Other (Specify)

SAMPLE RECEIPT & REVIEW FORM

Client: SDP SDG/AR/COC/Work Order: 712960 GEL PM:

Received By: EG Date Received at GEL: 3/7/25

Carrier (Circle Applicable): Courier Client Other: IR Temp gun # IR1-24 Daily Calibration Performed (Y)

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>9</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#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples as to be received as radioactive?		<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> (CPM)/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) 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: Wet Ice 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: If Preservation added, Lot#: _____
6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			<input checked="" 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"/>			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 SW Date 3/11/25

Continuation Form Required when selected

List of current GEL Certifications as of 04 April 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

March 24, 2025

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

Re: ABS Lab Analytical
Work Order: 710235

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 21, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

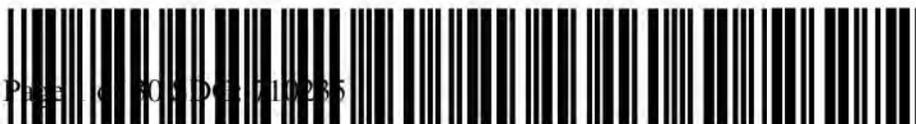
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without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

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

Sincerely,

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: 710235 GEL Work Order: 710235

The Qualifiers in this report are defined as follows:

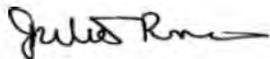
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 24, 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: AG25164 Project: SOOP00119
Sample ID: 710235001 Client ID: SOOP001
Matrix: GW
Collect Date: 18-FEB-25 11:18
Receive Date: 21-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		2.73	0.0670	0.200	mg/L		1	CH6	02/22/25	1126	2754790	1
Fluoride	U	0.0330	0.0330	0.100	mg/L		1					
Sulfate		6.56	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 24, 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: AG25145 Project: SOOP00119
Sample ID: 710235006 Client ID: SOOP001
Matrix: GW
Collect Date: 19-FEB-25 09:33
Receive Date: 21-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		260	6.70	20.0	mg/L		100	CH6	02/22/25	0035	2754790	1
Sulfate		264	13.3	40.0	mg/L		100					
Fluoride		0.198	0.0330	0.100	mg/L		1	CH6	02/22/25	1400	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 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: AG25144 Project: SOOP00119
Sample ID: 710235007 Client ID: SOOP001
Matrix: GW
Collect Date: 19-FEB-25 11:33
Receive Date: 21-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		823	13.4	40.0	mg/L		200	CH6	02/22/25	0106	2754790	1
Sulfate		486	26.6	80.0	mg/L		200					
Fluoride		0.345	0.0330	0.100	mg/L		1	CH6	02/22/25	0341	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 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: AG25127 Project: SOOP00119
Sample ID: 710235008 Client ID: SOOP001
Matrix: GW
Collect Date: 19-FEB-25 10:45
Receive Date: 21-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		28.5	6.70	20.0	mg/L		100	CH6	02/22/25	0137	2754790	1
Sulfate	J	0.262	0.133	0.400	mg/L		1	CH6	02/22/25	1431	2754790	2

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 24, 2025

Page 1 of 2

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

Contact: Ms. Jeanette Gilmetti
Workorder: 710235

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2754790										
QC1206015137	710235009	DUP									
Chloride		6.72		6.70	mg/L	0.191		(0%-20%)	CH6	02/22/25	15:32
Fluoride	J	0.0881	J	0.0910	mg/L	3.24	^	(+/-0.100)			
Sulfate		6.34		6.37	mg/L	0.441		(0%-20%)			
QC1206015134	LCS										
Chloride	5.00			4.80	mg/L			96.1 (90%-110%)		02/21/25	18:25
Fluoride	2.50			2.42	mg/L			96.8 (90%-110%)			
Sulfate	10.0			9.88	mg/L			98.8 (90%-110%)			
QC1206015133	MB										
Chloride			U	0.0670	mg/L					02/21/25	17:55
Fluoride			U	0.0330	mg/L						
Sulfate			U	0.133	mg/L						
QC1206015138	710235009	PS									
Chloride	5.00	6.72		12.4	mg/L			113 * (90%-110%)		02/22/25	16:03
Fluoride	2.50	J 0.0881		2.61	mg/L			101 (90%-110%)			
Sulfate	10.0	6.34		16.8	mg/L			105 (90%-110%)			

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QC Summary

Workorder: 710235

Page 2 of 2

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

The Qualifiers in this report are defined as follows:

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

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

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

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

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

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 24, 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: AG25164	Project: SOOP00119
Sample ID: 710235001	Client ID: SOOP001
Matrix: GW	
Collect Date: 18-FEB-25 11:18	
Receive Date: 21-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	0.847	+/-0.794	1.31	1.00	pCi/L			DH1	03/23/25	1326	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.607	+/-0.315	0.374	1.00	pCi/L			MJ2	03/19/25	1016	2756236	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"			88.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 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: AG25121	Project: SOOP00119
Sample ID: 710235002	Client ID: SOOP001
Matrix: GW	
Collect Date: 18-FEB-25 12:29	
Receive Date: 21-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		1.00	+/-0.554	0.802	1.00	pCi/L		DH1	03/23/25	1124	2755133		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.883	+/-0.382	0.353	1.00	pCi/L		MJ2	03/19/25	1016	2756236		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			59.4	(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: March 24, 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: AG25122	Project: SOOP00119
Sample ID: 710235003	Client ID: SOOP001
Matrix: GW	
Collect Date: 18-FEB-25 14:09	
Receive Date: 21-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	0.650	+/-0.457	0.709	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.955	+/-0.362	0.406	1.00	pCi/L			MJ2	03/19/25	1016	2756236	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"			75.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 24, 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: AG25123	Project: SOOP00119
Sample ID: 710235004	Client ID: SOOP001
Matrix: GW	
Collect Date: 18-FEB-25 13:45	
Receive Date: 21-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		0.942	+/-0.578	0.846	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.559	+/-0.321	0.386	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 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: AG25124	Project: SOOP00119
Sample ID: 710235005	Client ID: SOOP001
Matrix: GW	
Collect Date: 18-FEB-25 15:40	
Receive Date: 21-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		0.907	+/-0.409	0.524	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.86	+/-0.438	0.244	1.00	pCi/L			MJ2	03/19/25	1016	2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.4	(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: March 24, 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: AG25145	Project: SOOP00119
Sample ID: 710235006	Client ID: SOOP001
Matrix: GW	
Collect Date: 19-FEB-25 09:33	
Receive Date: 21-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		1.20	+/-0.431	0.542	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.05	+/-0.444	0.516	1.00	pCi/L			MJ2	03/19/25	1016	2756236	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"			89	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 24, 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: AG25144	Project: SOOP00119
Sample ID: 710235007	Client ID: SOOP001
Matrix: GW	
Collect Date: 19-FEB-25 11:33	
Receive Date: 21-FEB-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received"													
Radium-228		2.32	+/-0.594	0.631	1.00	pCi/L			DH1	03/23/25	1124	2755133	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.25	+/-0.513	0.364	1.00	pCi/L			MJ2	03/19/25	1048	2756236	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"			72.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 24, 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: AG25126	Project: SOOP00119
Sample ID: 710235009	Client ID: SOOP001
Matrix: GW	
Collect Date: 19-FEB-25 12:30	
Receive Date: 21-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	0.311	+/-0.337	0.560	1.00	pCi/L			DH1	03/23/25	1124 2755133	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.442	+/-0.281	0.397	1.00	pCi/L			MJ2	03/19/25	1048 2756236	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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QC Summary

Report Date: March 24, 2025

Page 1 of 2

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

Contact:
Workorder: 710235

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2755133										
QC1206015937	710235001	DUP									
Radium-228	U	0.847	U	0.202	pCi/L	N/A		N/A	DH1	03/23/25	13:25
	Uncertainty	+/-0.794		+/-0.532							
QC1206015938	LCS										
Radium-228	28.2			26.4	pCi/L		93.5	(75%-125%)		03/23/25	11:23
	Uncertainty			+/-1.89							
QC1206015936	MB										
Radium-228			U	-0.0977	pCi/L					03/23/25	11:23
	Uncertainty			+/-0.328							
Rad Ra-226											
Batch	2756236										
QC1206018252	710235001	DUP									
Radium-226			U	0.607	pCi/L	4.85		(0% - 100%)	MJ2	03/19/25	11:20
	Uncertainty	+/-0.315		+/-0.538							
QC1206018254	LCS										
Radium-226	27.3			22.8	pCi/L		83.3	(75%-125%)		03/19/25	11:20
	Uncertainty			+/-2.17							
QC1206018251	MB										
Radium-226			U	0.309	pCi/L					03/19/25	11:20
	Uncertainty			+/-0.303							
QC1206018253	710235001	MS									
Radium-226	136	0.607		115	pCi/L		84.3	(75%-125%)		03/19/25	11:20
	Uncertainty	+/-0.315		+/-11.6							

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 710235

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.

Technical Case Narrative
Santee Cooper
SDG #: 710235

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

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

Analytical Batch: 2754790

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
710235001	AG25164
710235002	AG25121
710235003	AG25122
710235004	AG25123
710235005	AG25124
710235006	AG25145
710235007	AG25144
710235008	AG25127
710235009	AG25126
1206015133	Method Blank (MB)
1206015134	Laboratory Control Sample (LCS)
1206015137	710235009(AG25126) Sample Duplicate (DUP)
1206015138	710235009(AG25126) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

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

Analyte	Sample	Value
Chloride	1206015138 (AG25126PS)	113* (90%-110%)

Technical Information

Sample Dilutions

Samples 1206015137 (AG25126DUP), 1206015138 (AG25126PS), 710235001 (AG25164), 710235002 (AG25121), 710235003 (AG25122), 710235004 (AG25123), 710235005 (AG25124), 710235006 (AG25145), 710235007

(AG25144), 710235008 (AG25127) and 710235009 (AG25126) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	710235					
	002	003	005	006	007	008
Chloride	1X	100X	100X	100X	200X	100X
Sulfate	100X	100X	100X	100X	200X	1X

Miscellaneous Information

Manual Integrations

Samples 1206015137 (AG25126DUP) and 710235009 (AG25126) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2755133

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
710235001	AG25164
710235002	AG25121
710235003	AG25122
710235004	AG25123
710235005	AG25124
710235006	AG25145
710235007	AG25144
710235009	AG25126
1206015936	Method Blank (MB)
1206015937	710235001(AG25164) Sample Duplicate (DUP)
1206015938	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

1206015937 (AG25164DUP), 710235001 (AG25164) and 710235004 (AG25123) Aliquots were reduced due to limited sample volume.

Quality Control (QC) Information

RDL Met

The following RDL was met with rounding.

Sample	Analyte	Value
710235001 (AG25164)	Radium-228	Result 0.847 < MDA 1.31 > RDL 1 pCi/L

Technical Information**Recounts**

Samples 1206015937 (AG25164DUP) and 710235001 (AG25164) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2756236

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
710235001	AG25164
710235002	AG25121
710235003	AG25122
710235004	AG25123
710235005	AG25124
710235006	AG25145
710235007	AG25144
710235009	AG25126
1206018251	Method Blank (MB)
1206018252	710235001(AG25164) Sample Duplicate (DUP)
1206018253	710235001(AG25164) Matrix Spike (MS)
1206018254	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**

1206018253 (AG25164MS) Aliquot was reduced due to limited sample volume.

Certification Statement

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

3/28/25 - RAD

710235

Contract Lab Info: GEL

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

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

125915 / JM02-09-G01-1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/Description	Collection Date	Collection Time	Sample Collector	Total # of containers	bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments	RAD 226/228	F, Cl, SO4	Cl, SO4
AG 25164	WBW-1	2/18/25	1118	NDS DCA	3	F	G	GW	2/1		2	1	0
1 21	WAP-1		1229										
AG 25122	WAP-2		1409										
1 23	WAP-2F		1345		2					ONLY ONE BOTTLE FOR RAD 226 + 228.	1	1	0
1 24	WAP-2R		1540		3						2	1	0
AG 25145	WAP-16	2/19/25	0933	ATH DCA	3								
1 44	WAP-15		1133										
AG 25127	WAP-5		1045		1						0	0	1
AG 25126	WAP-4		1230		3						2	1	0

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"/> IP1 <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)
<i>[Signature]</i>	36851	<i>[Signature]</i>	GEL	2/21/25	0936	TEMP (°C): _____
<i>[Signature]</i>	GEL	<i>[Signature]</i>	GEL	2-21-25	1600	Initials: _____
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Correct pH: Yes No
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Preservative Lot #:
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	Date/Time/Init for preservative:

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

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDG/AR/COC/Work Order: 710235 GEL PM: _____
 Received By: QG Date Received at GEL: 2/21/25

Carrier (Circle Applicable) FedEx Express FedEx Ground UPS Field Services Courier Client Other: _____ IR Temp gun # IR1-23 Daily Calibration Performed? Y/N _____

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only)	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only)
<u>Coder 1</u>	<u>17c</u>	<u>radiochem</u>			
<u>2</u>	<u>0c</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 as 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 Lnh 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 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 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 type="checkbox"/>	<input 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 Celcius
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, List: _____
6 Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	IDs and tests affected: _____
8 Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IDs and containers affected: _____
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Client uses GEL labels and their own.</u>
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials AW Date: 2/29/25

List of current GEL Certifications as of 24 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

April 10, 2025

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

Re: ABS Lab Analytical
Work Order: 714408

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 14, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 714408 GEL Work Order: 714408

The Qualifiers in this report are defined as follows:

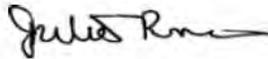
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25179 Project: SOOP00119
Sample ID: 714408006 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 09:55
Receive Date: 14-MAR-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	0.0496	0.0330	0.100	mg/L		1	CH6	03/15/25	1756	2766282	1
Chloride		65.0	1.34	4.00	mg/L		20	CH6	03/17/25	1749	2766282	2
Sulfate		221	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25180 Project: SOOP00119
Sample ID: 714408007 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 10:25
Receive Date: 14-MAR-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		0.184	0.0330	0.100	mg/L		1	CH6	03/15/25	1827	2766282	1
Chloride		57.5	1.34	4.00	mg/L		20	CH6	03/17/25	1921	2766282	2
Sulfate		255	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG2581	Project: SOOP00119
Sample ID: 714408008	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 10:30	
Receive Date: 14-MAR-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		0.187	0.0330	0.100	mg/L		1	CH6	03/15/25	1858	2766282	1
Chloride		57.5	1.34	4.00	mg/L		20	CH6	03/17/25	1952	2766282	2
Sulfate		259	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25156 Project: SOOP00119
Sample ID: 714408009 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 14:41
Receive Date: 14-MAR-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	0.0636	0.0330	0.100	mg/L		1	CH6	03/15/25	1929	2766282	1
Sulfate	J	0.241	0.133	0.400	mg/L		1					
Chloride		10.8	0.134	0.400	mg/L		2	CH6	03/17/25	2023	2766282	2

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25157 Project: SOOP00119
Sample ID: 714408010 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 13:00
Receive Date: 14-MAR-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	0.0341	0.0330	0.100	mg/L		1	CH6	03/15/25	2000	2766282	1
Chloride		11.8	0.335	1.00	mg/L		5	CH6	03/17/25	2054	2766282	2
Sulfate		53.7	0.665	2.00	mg/L		5					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 300.0		
2	EPA 300.0		

Notes:

Column headers are defined as follows:

DF: Dilution Factor Lc/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: AG25136 Project: SOOP00119
Sample ID: 714408012 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 11:25
Receive Date: 14-MAR-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	0.0481	0.0330	0.100	mg/L		1	CH6	03/15/25	2101	2766282	1
Chloride		893	6.70	20.0	mg/L		100	CH6	03/17/25	2156	2766282	2
Sulfate		1030	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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Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG25137 Project: SOOP00119
Sample ID: 714408013 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 11:30
Receive Date: 14-MAR-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	0.0473	0.0330	0.100	mg/L		1	CH6	03/15/25	2132	2766282	1
Chloride		581	6.70	20.0	mg/L		100	CH6	03/17/25	2226	2766282	2
Sulfate		708	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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Company : Santee Cooper
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Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AG27580 Project: SOOP00119
Sample ID: 714408015 Client ID: SOOP001
Matrix: GW
Collect Date: 07-MAR-25 09:18
Receive Date: 14-MAR-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	CH6	03/15/25	2203	2766282	1
Chloride		82.4	1.34	4.00	mg/L		20	CH6	03/17/25	2257	2766282	2
Sulfate		25.9	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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QC Summary

Report Date: April 10, 2025

Page 1 of 3

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

Contact: Ms. Jeanette Gilmetti
Workorder: 714408

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2766282										
QC1206038538	714408001	DUP									
Chloride		356		356	mg/L	0.0787		(0%-20%)	CH6	03/17/25	13:42
Fluoride		0.404		0.498	mg/L	20.9	^	(+/-0.100)		03/15/25	12:48
Sulfate		308		308	mg/L	0.0715		(0%-20%)		03/17/25	13:42
QC1206038540	714408002	DUP									
Chloride		111		111	mg/L	0.399		(0%-20%)		03/17/25	15:14
Fluoride	J	0.0362	J	0.0383	mg/L	5.64	^	(+/-0.100)		03/15/25	14:20
Sulfate		40.3		40.4	mg/L	0.352		(0%-20%)		03/17/25	15:14
QC1206038537	LCS										
Chloride	5.00			4.71	mg/L			94.2 (90%-110%)		03/15/25	11:39
Fluoride	2.50			2.45	mg/L			98.1 (90%-110%)			
Sulfate	10.0			9.66	mg/L			96.6 (90%-110%)			
QC1206038536	MB										
Chloride			U	0.0670	mg/L					03/15/25	11:09
Fluoride			U	0.0330	mg/L						
Sulfate			U	0.133	mg/L						

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QC Summary

Workorder: 714408

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2766282										
QC1206038539	714408001	PS									
Chloride	5.00	7.11		12.7	mg/L		112 *	(90%-110%)	CH6	03/17/25	14:13
Fluoride	2.50	0.404		3.06	mg/L		106	(90%-110%)		03/15/25	13:18
Sulfate	10.0	6.15		16.2	mg/L		100	(90%-110%)		03/17/25	14:13
QC1206038541	714408002	PS									
Chloride	5.00	5.55		11.0	mg/L		110	(90%-110%)		03/17/25	15:45
Fluoride	2.50	J 0.0362		2.71	mg/L		107	(90%-110%)		03/15/25	14:51
Sulfate	10.0	2.01		11.8	mg/L		97.7	(90%-110%)		03/17/25	15:45

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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QC Summary

Workorder: 714408

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1											
R											
B											
e											
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.

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25154	Project: SOOP00119
Sample ID: 714408001	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-MAR-25 09:45	
Receive Date: 14-MAR-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	0.819	+/-0.587	0.917	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.53	+/-0.550	0.566	1.00	pCi/L			RS2	04/10/25	0846	2770380	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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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25155	Project: SOOP00119
Sample ID: 714408002	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-MAR-25 14:39	
Receive Date: 14-MAR-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	0.102	+/-0.446	0.808	1.00	pCi/L		JE1	04/05/25	1340	2766914		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.538	+/-0.422	0.595	1.00	pCi/L		RS2	04/10/25	0846	2770380		2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25163	Project: SOOP00119
Sample ID: 714408003	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-MAR-25 11:49	
Receive Date: 14-MAR-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		0.952	+/-0.399	0.478	1.00	pCi/L			JE1	04/05/25	1340	2766914	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.665	+/-0.324	0.283	1.00	pCi/L			RS2	04/10/25	0845	2770380	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"			75.1	(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: AG25159	Project: SOOP00119
Sample ID: 714408004	Client ID: SOOP001
Matrix: GW	
Collect Date: 06-MAR-25 10:43	
Receive Date: 14-MAR-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting GFPC, Ra228, Liquid "As Received"													
Radium-228		1.05	+/-0.503	0.719	1.00	pCi/L		JE1	04/05/25	1340	2766914		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.15	+/-0.469	0.353	1.00	pCi/L		RS2	04/10/25	0845	2770380		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"			78.8	(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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Report Date: April 10, 2025

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

Client Sample ID: AG25178	Project: SOOP00119
Sample ID: 714408005	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 09:50	
Receive Date: 14-MAR-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	0.409	+/-0.343	0.547	1.00	pCi/L		JE1	04/05/25	1340	2766914		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.489	+/-0.338	0.463	1.00	pCi/L		RS2	04/10/25	0845	2770380		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"			87.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25179	Project: SOOP00119
Sample ID: 714408006	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 09:55	
Receive Date: 14-MAR-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	0.499	+/-0.380	0.591	1.00	pCi/L		JE1	04/05/25	1340	2766914		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.227	+/-0.209	0.289	1.00	pCi/L		RS2	04/10/25	0845	2770380		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	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 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: AG25180	Project: SOOP00119
Sample ID: 714408007	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 10:25	
Receive Date: 14-MAR-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	0.234	+/-0.290	0.493	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.723	+/-0.363	0.325	1.00	pCi/L			RS2	04/10/25	0845	2770380	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 |

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Report Date: April 10, 2025

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

Client Sample ID: AG2581	Project: SOOP00119
Sample ID: 714408008	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 10:30	
Receive Date: 14-MAR-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		0.785	+/-0.393	0.556	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.953	+/-0.449	0.479	1.00	pCi/L			RS2	04/10/25	0919	2770380	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"			88.1	(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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 OCO3
 Moncks Corner, South Carolina 29461
 Contact: Ms. Jeanette Gilmetti
 Project: ABS Lab Analytical

Client Sample ID: AG25156	Project: SOOP00119
Sample ID: 714408009	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 14:41	
Receive Date: 14-MAR-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	+/-0.421	0.756	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.452	+/-0.376	0.556	1.00	pCi/L			RS2	04/10/25	0919	2770380	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"			65.7	(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: April 10, 2025

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

Client Sample ID: AG25157	Project: SOOP00119
Sample ID: 714408010	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 13:00	
Receive Date: 14-MAR-25	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.00	+/-0.536	0.801	1.00	pCi/L		JE1	04/05/25	1341	2766914		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.600	+/-0.367	0.383	1.00	pCi/L		RS2	04/10/25	0919	2770380		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"			78.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25158	Project: SOOP00119
Sample ID: 714408011	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 13:05	
Receive Date: 14-MAR-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		0.578	+/-0.369	0.546	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.589	+/-0.330	0.322	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.3	(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: April 10, 2025

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

Client Sample ID: AG25136	Project: SOOP00119
Sample ID: 714408012	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 11:25	
Receive Date: 14-MAR-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		3.71	+/-0.773	0.887	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.08	+/-0.605	0.406	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25137	Project: SOOP00119
Sample ID: 714408013	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 11:30	
Receive Date: 14-MAR-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		3.81	+/-0.739	0.754	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.56	+/-0.553	0.582	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 10, 2025

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

Client Sample ID: AG25152	Project: SOOP00119
Sample ID: 714408014	Client ID: SOOP001
Matrix: GW	
Collect Date: 07-MAR-25 13:08	
Receive Date: 14-MAR-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		0.640	+/-0.361	0.510	1.00	pCi/L			JE1	04/05/25	1341	2766914	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.472	+/-0.393	0.602	1.00	pCi/L			RS2	04/10/25	0919	2770380	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			77.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: April 10, 2025

Page 1 of 2

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

Contact:
Workorder: 714408

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2766914										
QC1206040100	714408001	DUP									
Radium-228	U	0.819	U	0.568	pCi/L	N/A		N/A	JE1	04/05/25	13:41
	Uncertainty	+/-0.587		+/-0.414							
QC1206040101	LCS										
Radium-228	28.3			28.8	pCi/L		102	(75%-125%)		04/05/25	13:41
	Uncertainty			+/-1.70							
QC1206040099	MB										
Radium-228			U	0.0175	pCi/L					04/05/25	13:41
	Uncertainty			+/-0.459							
Rad Ra-226											
Batch	2770380										
QC1206047014	714380001	DUP									
Radium-226	U	0.293		0.373	pCi/L	24.1		(0% - 100%)	RS2	04/10/25	09:50
	Uncertainty	+/-0.318		+/-0.269							
QC1206047015	714408002	DUP									
Radium-226	U	0.538		0.539	pCi/L	0.062		(0% - 100%)		04/10/25	09:50
	Uncertainty	+/-0.422		+/-0.337							
QC1206047018	LCS										
Radium-226	27.2			32.6	pCi/L		120	(75%-125%)		04/10/25	09:50
	Uncertainty			+/-2.55							
QC1206047013	MB										
Radium-226			U	0.469	pCi/L					04/10/25	09:19
	Uncertainty			+/-0.511							
QC1206047016	714380001	MS									
Radium-226	137 U	0.293		151	pCi/L		110	(75%-125%)		04/10/25	09:50
	Uncertainty	+/-0.318		+/-12.3							
QC1206047017	714408002	MS									
Radium-226	128 U	0.538		130	pCi/L		101	(75%-125%)		04/10/25	09:50
	Uncertainty	+/-0.422		+/-9.74							

Notes:

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QC Summary

Workorder: 714408

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- 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.

Technical Case Narrative
Santee Cooper
SDG #: 714408

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

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

Analytical Batch: 2766282

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
714408001	AG25154
714408002	AG25155
714408003	AG25163
714408004	AG25159
714408005	AG25178
714408006	AG25179
714408007	AG25180
714408008	AG2581
714408009	AG25156
714408010	AG25157
714408011	AG25158
714408012	AG25136
714408013	AG25137
714408015	AG27580
1206038536	Method Blank (MB)
1206038537	Laboratory Control Sample (LCS)
1206038538	714408001(AG25154) Sample Duplicate (DUP)
1206038539	714408001(AG25154) Post Spike (PS)
1206038540	714408002(AG25155) Sample Duplicate (DUP)
1206038541	714408002(AG25155) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

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

Analyte	Sample	Value
Chloride	1206038539 (AG25154PS)	112* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1206038538 (AG25154DUP), 1206038539 (AG25154PS), 1206038540 (AG25155DUP), 1206038541 (AG25155PS), 714408001 (AG25154), 714408002 (AG25155), 714408003 (AG25163), 714408004 (AG25159), 714408005 (AG25178), 714408006 (AG25179), 714408007 (AG25180), 714408008 (AG2581), 714408009 (AG25156), 714408010 (AG25157), 714408011 (AG25158), 714408012 (AG25136), 714408013 (AG25137) and 714408015 (AG27580) 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	714408									
	001	002	003	004	005	006	007	008	009	010
Chloride	50X	20X	50X	50X	20X	20X	20X	20X	2X	5X
Sulfate	50X	20X	50X	50X	20X	20X	20X	20X	1X	5X

Analyte	714408			
	011	012	013	015
Chloride	5X	100X	100X	20X
Sulfate	5X	100X	100X	20X

Miscellaneous Information

Manual Integrations

Samples 1206038540 (AG25155DUP), 1206038541 (AG25155PS), 714408002 (AG25155), 714408003 (AG25163), 714408004 (AG25159), 714408005 (AG25178), 714408006 (AG25179), 714408007 (AG25180), 714408008 (AG2581), 714408009 (AG25156), 714408010 (AG25157), 714408012 (AG25136) and 714408013 (AG25137) were manually integrated to correctly position the baseline as set in the calibration standards.

Radiochemistry

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2766914

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

GEL Sample ID#	Client Sample Identification
714408001	AG25154
714408002	AG25155
714408003	AG25163
714408004	AG25159
714408005	AG25178
714408006	AG25179
714408007	AG25180
714408008	AG2581
714408009	AG25156
714408010	AG25157

714408011	AG25158
714408012	AG25136
714408013	AG25137
714408014	AG25152
1206040099	Method Blank (MB)
1206040100	714408001(AG25154) Sample Duplicate (DUP)
1206040101	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix

Sample 714408014 (AG25152) was non-homogenous matrix.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2770380

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
714408001	AG25154
714408002	AG25155
714408003	AG25163
714408004	AG25159
714408005	AG25178
714408006	AG25179
714408007	AG25180
714408008	AG2581
714408009	AG25156
714408010	AG25157
714408011	AG25158
714408012	AG25136
714408013	AG25137
714408014	AG25152
1206047013	Method Blank (MB)
1206047014	714380001(NonSDG) Sample Duplicate (DUP)
1206047015	714408002(AG25155) Sample Duplicate (DUP)
1206047016	714380001(NonSDG) Matrix Spike (MS)
1206047017	714408002(AG25155) Matrix Spike (MS)
1206047018	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spikes, 1206047016 (Non SDG 714380001MS) and 1206047017 (AG25155MS), aliquots were 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.

4/14/25 - RAD

714408

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 24 / 25

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



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

Chain of Custody

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

LINDA. WILLIAMS @santecooper.com

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments	RAP 226/22.8	F, C, SO4
AG 25154	WAP-23	3/6/25	0945	MDG DA	3	P	G	GW	2 + 1		2	1
55	WAP-24		1439		3						2	1
63	WAP-30		1149		3						2	1
AG 25159	WAP-27	3/6/25	1043	MDG DA	3						2	1
AG 25178	WAP 2BP SW-1	3/7/25	0950	MDG DA	3						2	1
79	WAP 2 BP SW-1 DUP		0955		3						2	1
80	WAP 2 DITCH SW-1		1025		3						2	1
81	WAP-2 DITCH SW-1 DUP		1030		3						2	1
AG 25156	WAP-25	3/7/25	1441	MDG DA	3						2	1
57	WAP-26		1300		3						2	1

Nutrients	Gypsum	Coal	Flyash	Oil	MISC.	Metals (All)
<input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/PO4 <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"/> Ulfimate <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:
<i>[Signature]</i>	36851	<i>[Signature]</i>	COURIER	3/14/25	0915	
<i>[Signature]</i>		<i>[Signature]</i>				
<i>[Signature]</i>	666	<i>[Signature]</i>	GEL	3-14-25	1705	

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)

4/14/25 - RAD

Contract Lab Info: GEL

Contract Lab Due Date (Lab Only): 3 / 24 / 25

Send report to lcwillia@santeecooper.com & sherri.levy@santeecooper.com



Chain of Custody

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

LINDA. WILLIAMS

@santeecooper.com

125915 / JM02.09.G01.1 / 36500

Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass- G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	F, Cl, SO ₄
AG 25158	WAP-26 DUP	3/7/25	1305	MDG DA	3	T	G	GW	2 ₁		2	1
AG 25136	WAP-12	3/7/25	1125		3				2 ₁		2	1
37	WAP-12 DUP	3/7/25	1130		3				2 ₁		2	1
52	WAP-21	3/6/25	1308		2				2		2	0
AG 27580	WAP-21	3/7/25	0918		1				1		0	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 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 <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"/> %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) 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) <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>Jamie Hill</i>	36851	<i>MDG</i>	COURTIER	3/14/25	1515	
<i>MDG</i>	<i>GEL</i>	<i>LJL</i>	GEL	3-14-25	1700	

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: 714408 GEL PM: _____
 Received By: QG Date Received at GEL: 3/14/25
 Carrier (Circle Applicable): FedEx Express FedEx Ground UPS Field Services Couriers Client Other: _____
 IR Temp gun # IR1-23 Daily Calibration Performed? Y

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>codex 1</u>	<u>00</u>				
<u>2</u>	<u>200</u>	<u>radiochem</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? Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples are to be received as radioactive? COC notation or radioactive stickers on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): C/CPM / mR/Hr
 Classified as: Rad 1 Rad 2 Rad 3

D) Are there any sample hazards to document? If yes, select Hazards below.
 PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____

E) Was a SDS received and reviewed by Lab Safety? Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<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:
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 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"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and tests affected: _____
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 GFL 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: _____

PM (or PMA) review: Initials mb Date 3/17/25

Continuation Form Required when selected

List of current GEL Certifications as of 10 April 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

August 06, 2025

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

Re: ABS Lab Analytical
Work Order: 732904

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 11, 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.G01.1/36500
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: 732904 GEL Work Order: 732904

The Qualifiers in this report are defined as follows:

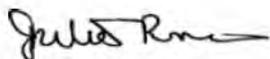
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by



GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36896	Project: SOOP00119
Sample ID: 732904001	Client ID: SOOP001
Matrix: GW	
Collect Date: 08-JUL-25 11:14	
Receive Date: 11-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	0.589	+/-0.415	0.639	1.00	pCi/L			HH3	07/29/25	0841	2828509	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.381	+/-0.258	0.365	1.00	pCi/L			AW6	08/06/25	0939	2828267	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36899	Project: SOOP00119
Sample ID: 732904002	Client ID: SOOP001
Matrix: GW	
Collect Date: 08-JUL-25 09:25	
Receive Date: 11-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		1.36	+/-0.546	0.721	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.650	+/-0.361	0.458	1.00	pCi/L		AW6	08/06/25	0939	2828267		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"			61.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36892 Project: SOOP00119
Sample ID: 732904003 Client ID: SOOP001
Matrix: GW
Collect Date: 08-JUL-25 13:40
Receive Date: 11-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		2.57	+/-0.766	0.907	1.00	pCi/L			HH3	07/29/25	0841	2828509	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.11	+/-0.568	0.203	1.00	pCi/L			AW6	08/06/25	0939	2828267	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			51.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36909	Project: SOOP00119
Sample ID: 732904004	Client ID: SOOP001
Matrix: GW	
Collect Date: 08-JUL-25 14:34	
Receive Date: 11-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		1.38	+/-0.561	0.754	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.866	+/-0.378	0.383	1.00	pCi/L		AW6	08/06/25	0939	2828267		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"			64.5	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 6, 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: AG36900 Project: SOOP00119
Sample ID: 732904005 Client ID: SOOP001
Matrix: GW
Collect Date: 08-JUL-25 12:22
Receive Date: 11-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		1.23	+/-0.473	0.613	1.00	pCi/L		HH3	07/29/25	0841	2828509		1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.973	+/-0.372	0.384	1.00	pCi/L		AW6	08/06/25	1011	2828267		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"			72.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 6, 2025

Page 1 of 2

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

Contact:
Workorder: 732904

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2828509										
QC1206167019	LCS										
Radium-228	27.5			22.7	pCi/L		82.8	(75%-125%)	HH3	07/29/25	08:41
	Uncertainty			+/-1.57							
QC1206169744	LCSD										
Radium-228	27.5			33.1	pCi/L	37.3 *	121	(0%-20%)		07/29/25	08:41
	Uncertainty			+/-1.88							
QC1206167017	MB										
Radium-228			U	0.321	pCi/L					07/29/25	10:06
	Uncertainty			+/-0.461							
Rad Ra-226											
Batch	2828267										
QC1206166502	732904002	DUP									
Radium-226		0.650		0.601	pCi/L	7.76		(0% - 100%)	AW6	08/06/25	10:43
	Uncertainty	+/-0.361		+/-0.293							
QC1206166504	LCS										
Radium-226	27.1			25.1	pCi/L		92.6	(75%-125%)		08/06/25	10:43
	Uncertainty			+/-1.62							
QC1206166501	MB										
Radium-226			U	0.178	pCi/L					08/06/25	10:43
	Uncertainty			+/-0.305							
QC1206166503	732904002	MS									
Radium-226	134	0.650		121	pCi/L		89.9	(75%-125%)		08/06/25	10:43
	Uncertainty	+/-0.361		+/-8.31							

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: 732904

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 #: 732904**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2828509

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
732904001	AG36896
732904002	AG36899
732904003	AG36892
732904004	AG36909
732904005	AG36900
1206167017	Method Blank (MB)
1206167019	Laboratory Control Sample (LCS)
1206169744	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

Duplication Criteria between LCS and LCSD

The Laboratory Control Sample and Laboratory Control Sample Duplicate (See Below) do not meet the duplication requirement; however, they both meet the spiked recovery requirement.

Sample	Analyte	Value
1206167019 (LCS) and 1206169744 (LCSD)	Radium-228	RPD 37.3* (0%-20%)

Technical Information

Recounts

Sample 1206167017 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

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

Analytical Batch: 2828267

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
732904001	AG36896
732904002	AG36899
732904003	AG36892
732904004	AG36909
732904005	AG36900
1206166501	Method Blank (MB)
1206166502	732904002(AG36899) Sample Duplicate (DUP)
1206166503	732904002(AG36899) Matrix Spike (MS)
1206166504	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1206166503 (AG36899MS), 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

732904



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

LINDA WILLIAMS @santecooper.com _____ / _____ / _____ 125915 / JM02.08.GW-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	LAB 126/225
AG 36896	WAP-18	7/8/25	1114	AGP EA	2	P	G	GW	2		X
AG 36899	WAP-21		0925								
AG 36892	WAP-15		1340								
AG 36909	WAP-29		1434								
AG 36900	WAP-22		1222								

Nutrients TOC DOC TP/PO4 NH3-N F Cl NO2 Br NO3 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 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) 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) <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)
<i>[Signature]</i>	36851	<i>[Signature]</i>	GEL	7/11/25	0859	TEMP (°C): _____
<i>[Signature]</i>	666	<i>[Signature]</i>	GEL	7/11/25	1630	Initials: _____
						Correct pH: Yes No
						Preservative Lot #:
						Date/Time/Init for preservative:



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP SDG/R/COC/Work Order: 732904 GEL PM: JR

Received By: CLM Date Received at GEL: 7/11/25

Courier (Circle Applicable): 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 radiochem only)	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only)
<u>N/A</u>	<u>21</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? Hazard Class Shipped: UN#
 B) Did the client designate the samples are to be received as radioactive? If UN2910, is the Radioactive Shipment Survey Compliant? Yes No
 C) Did the RSO classify the samples as radioactive? COC notation on radioactive stickers on containers equal client designation.
 Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM dpm/HR
 Classified as: Rad 1 Rad 2 Rad 3
 If yes, select Hazards below.
 D) Are there any sample hazards to document? PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
 E) Was a SDS received and reviewed by Lab Safety? Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<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: Chain contained 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: Wet Ice 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"/>	<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, Temp:
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 <input type="checkbox"/> No <input type="checkbox"/> (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> 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:
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:

PM (or PMA) review: Initials OR Date 7/14/25

Continuation Form Required when selected

List of current GEL Certifications as of 06 August 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

November 14, 2025

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

Re: ABS Lab Analytical
Work Order: 748601

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 21, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

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

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

Sincerely,

Jessica Skriba for
Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

SOOP001 Santee Cooper

Client SDG: 748601 GEL Work Order: 748601

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: November 14, 2025

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

Client Sample ID: AG48912	Project: SOOP00119
Sample ID: 748601001	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-OCT-25 12:37	
Receive Date: 21-OCT-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		1.27	+/-0.556	0.753	1.00	pCi/L		CH7	11/11/25	0824	2884862	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.72	+/-0.556	0.568	1.00	pCi/L		AW6	11/12/25	1009	2884922	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.1	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2025

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

Client Sample ID: AG48913	Project: SOOP00119
Sample ID: 748601002	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-OCT-25 12:42	
Receive Date: 21-OCT-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		0.941	+/-0.462	0.634	1.00	pCi/L		CH7	11/11/25	0824	2884862	1
Rad Radium-226												
Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		1.53	+/-0.386	0.229	1.00	pCi/L		AW6	11/12/25	1009	2884922	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"			68.3	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 14, 2025

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

Client Sample ID: AG48914	Project: SOOP00119
Sample ID: 748601003	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-OCT-25 14:34	
Receive Date: 21-OCT-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	0.371	+/-0.464	0.786	1.00	pCi/L		CH7	11/11/25	0824	2884862	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		0.613	+/-0.265	0.245	1.00	pCi/L		AW6	11/12/25	1009	2884922	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.6	(15%-125%)

Notes:

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

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: November 14, 2025

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

Client Sample ID: AG48915	Project: SOOP00119
Sample ID: 748601004	Client ID: SOOP001
Matrix: GW	
Collect Date: 14-OCT-25 11:16	
Receive Date: 21-OCT-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	0.679	+/-0.495	0.779	1.00	pCi/L		CH7	11/11/25	0824	2884862	1
Rad Radium-226 Lucas Cell, Ra226, Liquid "As Received"												
Radium-226		2.32	+/-0.556	0.468	1.00	pCi/L		AW6	11/12/25	1009	2884922	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"			80.2	(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

QC Summary

Report Date: November 14, 2025

Page 1 of 2

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

Contact:
Workorder: 748601

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2884862										
QC1206275610	748601001	DUP									
Radium-228		1.27		1.42	pCi/L	11.4		(0% - 100%)	CH7	11/11/25	08:24
	Uncertainty	+/-0.556		+/-0.637							
QC1206275611	LCS										
Radium-228	27.0			26.8	pCi/L		99.2	(75%-125%)		11/11/25	08:24
	Uncertainty			+/-1.72							
QC1206275609	MB										
Radium-228			U	0.605	pCi/L					11/11/25	08:23
	Uncertainty			+/-0.490							
Rad Ra-226											
Batch	2884922										
QC1206275718	748601004	DUP									
Radium-226		2.32		1.75	pCi/L	27.6 *		(0%-20%)	AW6	11/12/25	10:41
	Uncertainty	+/-0.556		+/-0.399							
QC1206275720	LCS										
Radium-226	27.2			26.6	pCi/L		97.9	(75%-125%)		11/12/25	10:41
	Uncertainty			+/-1.57							
QC1206275717	MB										
Radium-226			U	0.214	pCi/L					11/12/25	10:41
	Uncertainty			+/-0.223							
QC1206275719	748601004	MS									
Radium-226	134	2.32		135	pCi/L		99.6	(75%-125%)		11/12/25	10:41
	Uncertainty	+/-0.556		+/-8.32							

Notes:

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

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

GEL LABORATORIES LLC

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

QC Summary

Workorder: 748601

Page 2 of 2

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

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

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

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

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

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

**Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 748601**

Product: GFPC, Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

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

Analytical Batch: 2884862

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
748601001	AG48912
748601002	AG48913
748601003	AG48914
748601004	AG48915
1206275609	Method Blank (MB)
1206275610	748601001(AG48912) Sample Duplicate (DUP)
1206275611	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

Aliquots were 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: 2884922

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
748601001	AG48912
748601002	AG48913
748601003	AG48914
748601004	AG48915
1206275717	Method Blank (MB)
1206275718	748601004(AG48915) Sample Duplicate (DUP)
1206275719	748601004(AG48915) Matrix Spike (MS)
1206275720	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
1206275718 (AG48915DUP)	Radium-226	RPD 27.6* (0.00%-20.00%) RER 1.23 (0-3)

Miscellaneous Information

Additional Comments

The matrix spike, 1206275719 (AG48915MS), 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.

748601

Chain of Custody



(Internal Use Only)

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com Date Results Needed by: Project/Task/Unit #: 125915 / JM02.08.G01.3 / 36110 Rerun request for any flagged QC: Yes No

Labworks ID # <i>(internal use only)</i>	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Analysis Group		
											Rad 226/228		
AG48912	WAP-2R	10/14/25	1237	CG MG JK	2	P	G	GW	2		x		
AG48913	WAP-2R DUP		1242										
AG48914	WAP-28R		1434										
AG48915	WAP-30		1116										

Nutrients <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> TP/TP04 <input type="checkbox"/> NH ₃ -N <input type="checkbox"/> F <input type="checkbox"/> Cl <input type="checkbox"/> NO ₃ <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> SO ₄	Gypsum <input type="checkbox"/> Wallboard <input type="checkbox"/> AIM <input type="checkbox"/> Total metals <input type="checkbox"/> Purity (CaSO ₄) <input type="checkbox"/> % Moisture <input type="checkbox"/> pH <input type="checkbox"/> Chlorides <input type="checkbox"/> Particle Size <input type="checkbox"/> USDA <input type="checkbox"/> Sieve <input type="checkbox"/> Sulfur	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"/> % Moisture NPDES <input type="checkbox"/> Oil & Grease <input type="checkbox"/> AS <input type="checkbox"/> TSS <input type="checkbox"/> Se <input type="checkbox"/> E. Coli	Oil Trans. Oil Quality <input type="checkbox"/> % Moisture <input type="checkbox"/> Dissolved Gases <input type="checkbox"/> Density Used Oil <input type="checkbox"/> Flashpoint <input type="checkbox"/> Metals (As, Cd, Cr, Ni, Pb, Hg) GOFER <input type="checkbox"/> Monthly <input type="checkbox"/> Risk (Weekly)	MISC. <input type="checkbox"/> Limestone <input type="checkbox"/> Naphthalene <input type="checkbox"/> VOA/Semi <input type="checkbox"/> Oil & Grease <input type="checkbox"/> E. Coli <input type="checkbox"/> P/A Coliform <input type="checkbox"/> pH <input type="checkbox"/> Diss. Metals <input type="checkbox"/> Rad 226 <input type="checkbox"/> Rad 228 <input type="checkbox"/> PCB <input type="checkbox"/> Sieve	<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>Be</td><td>Ca</td><td>Cd</td></tr> <tr><td>Co</td><td>Cr</td><td>Cu</td><td>Fe</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>Sh</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> <tr><td>Hg</td><td>Si</td><td colspan="2">XRF scan</td></tr> <tr><td colspan="4">RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)</td></tr> </table>	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sh	Se	Sn	Sr	Ti	Tl	V	Zn	Hg	Si	XRF scan		RCRA (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)			
Ag	Al	As	B																																							
Ba	Be	Ca	Cd																																							
Co	Cr	Cu	Fe																																							
K	Li	Mg	Mn																																							
Mo	Na	Ni	Pb																																							
Sh	Se	Sn	Sr																																							
Ti	Tl	V	Zn																																							
Hg	Si	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 #: Date/Time/Init for preservative: Seal intact as received: YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
<i>S. Levy</i>	35594	<i>DJL</i>	GEL	10/21/25	0933	
<i>DJP</i>	GEL	<i>Cummeton</i>	GEL	10.24.25	1430	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	
Relinquished by:	Employee #	Received by:	Employee #	Date	Time	

SAMPLE RECEIPT & REVIEW FORM

Client: SDGP SDG/ARCOC/Work Order: 748601
 Received By: CLM Date Received at GEL: 10/21/25 GEL PM: JR

Carrier (Circle Applicable): 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 radiation only)	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiation only)
<u>Cooler 1</u>	<u>0°</u>				
<u>2</u>	<u>23°</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? Hazard Class Shipped: _____ UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___

B) Did the client designate the samples as to be received as radioactive? COG notation of radioactive materials on containers equal client designation.

C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____
 Classified as: Rad 1 Rad 2 Rad 3 0 CPM mR/hr
 If you, select Hazards below: _____

D) Are there any sample hazards to document? PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____

E) Was a SDS received and reviewed by Lab Safety? Circle Applicable: See additional Comments below. No additional comments needed after review.

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<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 <u>16.49/180 out of temp.</u>
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, List: _____ 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"/>			<u>10/21/25</u>
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 CM Date 10/22/25
 Continuation Form Required when selected

List of current GEL Certifications as of 14 November 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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 - 19	43.39	24.1	14-24	3/4/2025	1405	26.28
Final GW Depth:	24.57	depth to GW (ft)		-7.48	Screen Submerged (ft)?	
Drawdown:	0.47	ft		0.336	Silt Buildup (ft)	
Ferric Iron:	3.03	mg/L		21	Tubing Length (ft)	
Ferrous Iron:	1.4	mg/L				
Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1304	21.5	6.22	25	2670	476	3.81
1309	21.49	6.29	-44	2890	176	0.68
1314	21.59	6.3	-59	2890	126	0.6
1319	21.68	6.31	-71	2890	60.7	0.45
1324	21.61	6.31	-83	2890	16.7	0.43
1329	21.46	6.31	-92	2890	18.5	0.42
1332	21.37	6.31	-98	2900	14.6	0.45
1335	21.39	6.3	-105	2900	18.9	0.41
1338	20.99	6.29	-109	2920	14.6	0.42
1341	21.12	6.31	-117	2900	17.5	0.4
1344	21.29	6.31	-123	2990	24.7	0.35
1347	21.36	6.32	-130	2900	19.9	0.39
1350	21.33	6.32	-134	2890	25.2	0.38
1353	21.23	6.31	-137	2900	16.8	0.39
1356	21.33	6.31	-140	2900	16.8	0.42
1359	21.47	6.32	-143	2900	12.4	0.43
1402	21.49	6.32	-146	2900	9.3	0.42
1405	21.45	6.32	-148	2890	6.6	0.39
Samples were collected by Brad McCray and Dan Alexander						
Comments/Conditions:						
*** Wasn't able to get any water out of the well on 7/16/24. Sampled with H&A on 7/8/24						
Returned on 7/22/24 to retry sampling.						
*** Had to drop tubing to 23' to reach water						
WAP-19F taken at 1410						

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 - 18	31.04	11.26	7.5-17.5	7/8/2025	1114	21.29
Final GW Depth:	11.8	depth to GW (ft)		-0.41	Screen Submerged (ft)?	
Drawdown:	0.54	ft		-0.44	Silt Buildup (ft)	
Ferric Iron:	0	mg/L		15	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)
1022	23.4	5.35	182	252	19.1	3.38
1027	24.89	5.36	174	244	17.6	2.55
1032	25.11	5.44	165	249	10.9	1.53
1037	25	5.44	162	251	12	1.93
1042	24.95	5.48	159	253	12.4	1.96
1047	24.95	5.47	159	254	11.9	1.02
1050	24.95	5.43	161	255	12.2	0.9
1053	25.15	5.46	159	256	12.2	0.64
1056	25.19	5.51	157	257	11.8	1.43
1059	25.29	5.55	154	257	11.7	0.72
1102	25.39	5.53	156	258	11.1	0.61
1105	25.26	5.52	157	258	11.9	0.99
1108	25.71	5.48	159	260	11.2	0.5
1111	26.01	5.52	158	260	19.8	0.48
1114	25.91	5.53	158	259	22.1	0.46
Samples were collected by Ashton Poole and Evan Amick						
Comments/Conditions:						

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 - 26	27.56	8.99	12'-22'	7/9/2025	1550	25.97
Final GW Depth:	9.23	depth to GW (ft)		6.11	Screen Submerged (ft)?	
Drawdown:	0.24	ft		-0.87	Silt Buildup (ft)	
Ferric Iron:	1.51	mg/L		18	Tubing Length (ft)	
Ferrous Iron:	1.01	mg/L				
Time	Temp (celcius)	pH (units)	Eh ORP (mV)	Spec Cond (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1455	26.35	5.92	-41	581	18.7	1.41
1500	26.53	5.29	-199	544	15.9	0.47
1505	26.79	5.14	-232	464	11.8	0.37
1510	26.92	5.02	-236	421	2.9	0.33
1515	27.1	5.08	-231	396	0.7	0.29
1520	27.32	5.03	-222	381	0.8	0.29
1523	27.52	5.05	-214	376	0.8	0.29
1526	27.65	5.05	-196	370	0.4	0.31
1529	27.67	5.02	-163	365	0.6	0.27
1532	27.72	5.03	-115	361	0.4	0.24
1535	27.78	5.05	-67	359	0	0.24
1538	27.85	5.03	-30	357	0	0.23
1541	27.8	5	-7	357	0.4	0.22
1544	27.73	4.94	4	351	0.4	0.2
1547	27.8	4.94	8	353	0.2	0.18
1550	27.92	4.95	8	355	0.2	0.19
Samples were collected by Ashton Poole and Evan Amick						
Comments/Conditions:						
Dup was taken at 1555						

