2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH PONDS A AND B WINYAH GENERATING STATION

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1. Annual Groundwater Monitoring Report Summary

The South Carolina Public Service Authority (Santee Cooper) has prepared this 2022 Annual Groundwater Monitoring Corrective Action Report for the Ash Ponds A and B at the Winyah Generating Station (WGS). This 2022 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 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, 2022), Ash Ponds A and B continued to operate under an assessment monitoring program in accordance with § 257.95. For the February 2022 semi-annual monitoring event, statistically significant levels (SSLs) above the groundwater protection standard (GWPS) for arsenic and lithium were identified in monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WAP-20; and for molybdenum in monitoring well WAP-18. For the July 2022 semi-annual monitoring event, SSLs above the GWPS for arsenic were identified in monitoring wells WAP-9, WAP-10, WAP-17, WAP-18, WAP-19, and WAP-20; for lithium in monitoring wells WAP-9, WAP-18, WAP-19, and WAP-20; and for molybdenum in monitoring well WAP-18.

An assessment of corrective measures and an evaluation of the nature and extent of contamination was initiated per §257.95(g)(3) on April 15, 2019, and 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. Remedial activities were initiated in 2022 and are ongoing. At the end of the current annual reporting period (December 31, 2022), Ash Ponds A and B had entered the corrective action monitoring program.

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

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a) and (c)

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

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

Ash Ponds A and B at WGS are existing surface impoundments which are no longer receiving CCR or non CCR waste streams and are undergoing closure by removal. 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 2022 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 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 is confined to the uppermost aquifer on-site and does not extend north and east of the Industrial Cooling Pond. This continues to be the case through 2022. An Assessment of Corrective Measures report (CMA) was completed on September 11, 2019, and is available on the publicly available CCR website. A public meeting was held on December 10, 2019, to discuss the six alternatives presented in the CMA for a remedy per § 257.96(e).

In March 2022, the remedy was selected; therefore, the groundwater monitoring program transitioned from assessment to corrective action monitoring. Consistent with previous results, arsenic, lithium, and molybdenum continue to be the only Appendix IV constituents present in groundwater at SSLs above the GWPS at Ash Pond A. For Ash Pond B, arsenic and lithium are the only Appendix IV constituents present in groundwater at SSLs above the GWPS in 2022. Of note, molybdenum, which was detected above the GWPS during prior sampling events, was not detected at an SSL in 2022 in Ash Pond B.

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 either beneficially used or 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 will allow the concentrations of these constituents in downgradient groundwater to attenuate. Through the on-going beneficial use of reclaimed ponded ash, the amount of material that will need to be removed has been greatly reduced prior to selecting the final groundwater remedy. This beneficial use program's success makes the option

of CBR viable. The other component of the selected remedy will be to address the presence of arsenic, lithium, and molybdenum in the groundwater above the GWPSs. To address the limited and local CCR impacts, groundwater is 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 standard.

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 at this time while source removal continues, 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 once source removal is complete in 2025 to ensure ongoing adequacy. During this interim period when source removal is ongoing, additional parameters for geochemical interpretation are being analyzed to gain a better understanding of changes in groundwater chemistry given site changes induced by closure by removal activities.

2.2.2 Key Actions Completed

The following key actions were completed in 2022:

- Prepared 2021 Annual Report including:
    - The Annual Report was placed in the facility's operating record pursuant to § 257.105(h)(1);
    - Pursuant to § 257.106(h)(1), the notification was sent to the relevant State Director within 30 days of the Annual Report being placed in the facility's operating record [§ 257.106(d)];
    - Pursuant to § 257.107(h)(1), the Annual Report was posted to the CCR Website within 30 days of the Annual Report being placed in the facility's operating record [§ 257.107(d)];
- Collected and analyzed two (2) rounds of groundwater samples (February/March and 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).
- Used the existing groundwater model to evaluate how pond closure with the construction of the new landfill may affect groundwater flow direction.
- Selected the Remedy pursuant to § 257.97. This document was placed in the facility's operating record, posted to the CCR website, and all appropriate notifications were made to the relevant State Director pursuant to § 257.105, § 257.106, and § 257.107.
- Installed replacement groundwater monitoring well WAP-22 after proper abandonment by a South Carolina Certified Well Driller. Installed new groundwater monitoring well WAP-27 by a

South Carolina Certified Well Driller. Well abandonment and installation records are provided in Appendix C.

- Ongoing characterization of nature and extent [§ 257.95(g)(1)] including collecting additional geochemical parameters to monitor remedy implementation and performance.
- Improved the potentiometric surface characterization of the uppermost aquifer given changing site conditions by:
    - Revising the groundwater elevation measurement procedure by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample.
    - Surveying the water surface elevations of unlined CCR units and the industrial cooling pond at approximately the same time as the semi-annual monitoring events.
    - Evaluated turbidity trends in sitewide wells and identified wells to be redeveloped by a certified well driller to remove buildup of sediment fines on the well screens. Well redevelopment was completed in November 2022. Success of redevelopment will be monitored during 2023 sampling events.

2.2.3 Problems Encountered

There were two monitoring well-related issues and multiple laboratory analytical issues encountered in 2022.

Monitoring well WAP-22 is used as a nature and extent well for monitoring vertical extent of Appendix IV constituents. In December 2021, it was properly abandoned and replaced by a South Carolina certified well driller due to impacts from landfill construction activities. WAP-22 was originally installed in 2019 as part of the initial corrective measures assessment activities on top of the northern dike of Ash Pond A. At the time of installation, there was an approximate four (4) foot clay layer between the surficial aquifer and the Gordon aquifer. The clay layer separating the two aquifers is not uniform across the site. Because of this unconformity, the two aquifers together are typically considered the uppermost aquifer. When WAP-22 was reinstalled in December 2021 at the foot of the dike, the clay layer was only one (1) foot thick at this location. When sampled during the 2022 semi-annual monitoring events, the data was not aligning with historical analytical or potentiometric values of WAP-22 which monitors the Gordon aquifer. Rather, it was more closely aligning with historical values of WAP-18 which monitors the surficial aquifer. Monitoring well WAP-22 was properly abandoned and reinstalled in September 2022 utilizing grouted surface casing to seal off the upper part of the aquifer (see sections 2.2.4 and 2.3.2 below).

Monitoring well WAP-20 is a compliance well at the waste boundary on the eastern dike of Ash Pond B. During both semi-annual monitoring events, the well had been going effectively dry (i.e., dropping water table) and the field representative returned to WAP-20 several times during sampling activities to allow the well to recharge to obtain the required volume of groundwater for laboratory analysis. Dewatering activities to facilitate closure by removal of Ash Pond B caused the water table to drop below the well's screen zone. For the July 2022 event, radium could not be analyzed given the large sample volume required to do so, even with these repeated collection attempts. Lack of water in the screen zone and multiple attempts to collect enough sample volume caused elevated turbidity in WAP-20 because the well was not sampled under low-flow conditions. This likely contributed to elevated concentrations of other Appendix IV constituents (chromium, cobalt, lead, radium) for the first time since 2015, though none triggered SSLs according to the interwell statistical evaluation. In September 2022, new monitoring

well, WAP-27, was installed adjacent to WAP-20 with a screen zone set eight (8) feet deeper, but above the clay layer separating the surficial and Gordon aquifers (see sections 2.2.4 and 2.3.2 below).

There were multiple laboratory issues encountered in 2022 which contributed to longer than average turnaround time to receive results. Santee Cooper's internal lab, Analytical Services, is certified by the state of South Carolina (#08552) to run most of the analyses on Appendix III and Appendix IV constituents for groundwater except for mercury and radium 226/228. However, the inductively coupled plasma – mass spectrophotometer (ICP-MS) that analyzes the Appendix IV metals was broken and irreparable at the beginning of 2022. A new ICP-MS was ordered and delivered in April 2022 but was non-operational upon delivery. For the February sampling event, the samples were held at the Analytical Services' lab while repairs were attempted on the instrument. In the meantime, Analytical Services began to analyze the samples on the inductively coupled plasma – optical emission spectroscopy (ICP-OES) but was unable to achieve the appropriate reporting limits because it ran a different analytical method (EPA SW-846 6010D instead of 6020B). When initial repairs were unsuccessful on the ICP-MS, the samples were sent to a third-party laboratory certified by the state of South Carolina (Eurofins Savannah), approximately two months after sample collection. Eurofins Savannah returned the analytical results approximately one month after receipt. For the February 2022 event, the non-detect reporting limits for monitoring well WAP-22 (sample ID AF27215) exceeded the GWPS for lead and thallium. This is because the sample contained a limited volume due to its selection by the lab as a quality control sample for the matrix spike and spike duplicate and had to be prepped at a reduced volume which can lead to inflated reporting limits. Lead and thallium have historically not been detected in the groundwater in Ash Ponds A & B as SSLs or otherwise constituents of concern. These constituents will continue to be monitored semi-annually, but it is believed that these values do not represent measured concentrations above the GWPS.

For the July sampling event, the samples were again held at the Analytical Services' lab while ongoing repairs were attempted on the ICP-MS, which were ultimately unsuccessful. After approximately six weeks, Analytical Services sent the samples to a third-party lab that is certified by the state of South Carolina to analyze Appendix IV metals (Rogers & Callcott) because they had a quicker turnaround time than Eurofins Savannah. While Rogers & Callcott was able to analyze metals under 6010D, they also experienced technical issues with their ICP-MS and was unable to analyze metals under method 6020B. The remaining sample volumes were returned to Santee Cooper. Upon receipt, Analytical Services sent the samples to Eurofins Savannah to analyze the appropriate metals under method 6020B. Although Eurofins Savannah analyzed some metals for both the February and July samples, the lab obtained different reporting limits for the two sampling events. For the July 2022 event, the non-detect reporting limits for monitoring well WAP-21 (Sample ID #AF38183) exceeded the GWPS for arsenic, beryllium, and thallium. This is because the sample contained a limited volume and had to prepared at a reduced volume at the lab (5 milliliters [mL] instead of 50 mL) which can lead to inflated reporting limits. Arsenic, beryllium, and thallium have historically been non-detect in WAP-21 with reporting limits less than the GWPS (5 ug/L, 0.5 ug/L, and 1 ug/L, respectively). These constituents will continue to be monitored semi-annually, but it is believed that these values do not represent measured concentrations above the GWPS.

2.2.4 Actions to Resolve Problems

Monitoring well WAP-22 was abandoned and replaced by a South Carolina certified well driller in September 2022. The monitoring well screen was appropriately located in the Gordon aquifer similar to its original installation in 2019, and a grouted surface casing was used to seal off the upper aquifer.

Monitoring well WAP-27 was installed by a South Carolina certified well driller in September 2022. It is located adjacent to WAP-20, but has a deeper screen zone to reach the lower portion of the water table of the uppermost aquifer. Monitoring well WAP-27 will be integrated as a temporary substitute for monitoring well WAP-20 until the water table is restored to historical levels.

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

2.2.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2023 include the following:

- Prepare the 2022 annual report; place it in the 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 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 [§ 257.95(g)(1)].
- 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:
    - Increasing the sitewide synoptic water level measurements from two (2) to four (4) times per year (on a quarterly basis and in conjunction with the semi-annual groundwater monitoring events).
    - Continue collecting surface water elevations from unlined ponds, also on the same quarterly basis as the sitewide synoptic water level measurements.

2.3 40 CFR § 257.90(e) - INFORMATION

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

2.3.1 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;

Monitoring well WAP-22 is used as a nature and extent well for monitoring vertical extent of Appendix IV constituents. In December 2021, it was properly abandoned and replaced by a South Carolina certified well driller due to impacts from landfill construction activities. WAP-22 was originally installed in 2019 as part of the initial corrective measures assessment activities on top of the northern dike of Ash Pond A. At the time of installation, there was an approximate four (4) foot clay layer between the surficial aquifer and the Gordon aquifer. The clay layer separating the two aquifers is not uniform across the site. Because of this unconformity, the two aquifers together are typically considered the uppermost aquifer. When WAP-22 was reinstalled in December 2021 at the foot of the dike, the clay layer was only one (1) foot thick at this location. When sampled during the 2022 semi-annual monitoring events, the data was not aligning with historical analytical or potentiometric values of WAP-22 which monitors the Gordon aquifer. Rather, it was more closely aligning with historical values of WAP-18 which monitors the surficial aquifer. Monitoring well WAP-22 was properly abandoned and reinstalled in September 2022 utilizing grouted surface casing to seal off the upper part of the aquifer (see sections 2.2.4 and 2.3.2 below). Well abandonment and installation records are provided in Appendix C.

Dewatering activities to facilitate closure by removal of Ash Pond B caused the water table to drop below the well's screen zone. For the July 2022 event, radium could not be analyzed given the large sample volume required to do so, even with these repeated collection attempts. Lack of water in the screen zone and multiple attempts to collect enough sample volume caused elevated turbidity levels in WAP-20 because the well was not sampled under low-flow conditions. This likely contributed to elevated concentrations of other Appendix IV constituents (chromium, cobalt, lead, radium) for the first time since 2015, though none triggered SSLs according to the interwell statistical evaluation. In September 2022, new monitoring well, WAP-27, was installed adjacent to WAP-20 with a screen zone set eight (8) feet deeper, but above the clay layer separating the surficial and Gordon aquifers. Monitoring well WAP-27 will be integrated as a temporary substitute for monitoring well WAP-20 (which was not abandoned) until the water table is restored to historical levels. Well installation records are provided in Appendix C.

No other monitoring wells associated with the monitoring network for Ash Ponds A & B were installed or decommissioned in 2022.

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. The exception to this was the inability to collect enough sample volume from monitoring well WAP-20 to analyze for radium 226/228 combined in July 2022 due to the well effectively going dry and the large sample volume requirement for radium 226/228.

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 as 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 SSIs over background for the respective Appendix III constituent. This statistical analysis determined that statistically significant increases of boron, calcium, chloride, fluoride, pH, sulfate, total and 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 CMA 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 CMA.

For the February 2022 semi-annual monitoring event, SSLs above the GWPS for arsenic and lithium were identified in monitoring wells WAP-9, WAP-17, WAP-18, WAP-19, and WAP-20; and for molybdenum in monitoring well WAP-18. For the July 2022 semi-annual monitoring event, SSLs above the GWPS for arsenic were identified in monitoring wells WAP-9, WAP-10, WAP-17, WAP-18, WAP-19, and WAP-20; for lithium in monitoring wells WAP-9, WAP-18, WAP-19, and WAP-20; and for molybdenum in monitoring well WAP-18. These are consistent with previous results.

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 2025 to ensure ongoing adequacy. During this interim period when source removal is ongoing, additional parameters for geochemical interpretation are being analyzed to gain a better understanding of changes in groundwater chemistry given site changes induced by closure by removal activities.

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 Rule.

Actions completed in the interim between the public meeting and final remedy selection included: reclaiming CCR material from Ash Pond A for beneficial use and excavating ash and a layer of subsurface soil for disposal in the on-site Class 3 Landfill, delineating the bottom of ash, and delineating the bottom of any contaminated in-situ soil via laboratory analysis of soil borings. The delineations of the bottom of ash and vertical extent of soil impacts provided additional information relevant to the selection of remedy process.

The selected remedial alternative is closure by removal of CCR for beneficial use and a removal of a scientifically predetermined layer of subsurface soils followed by MNA. This remedy eliminates the source through removal thereby meeting the source control requirement stated in the CCR Rule. Over time, removing the source material will allow the concentrations of these constituents in downgradient groundwater to attenuate. Through the on-going beneficial use of reclaimed ponded ash, the amount of material that will need to be removed from the Pond was greatly reduced prior to selecting the final groundwater remedy. This beneficial use program's success made the option of CBR viable. The other component of the selected remedy will be to address the presence of arsenic, lithium, and molybdenum in the groundwater above the GWPSs. Groundwater is being further addressed after source removal through MNA, which is a viable remedial technology recognized by state and federal regulators that is applicable to inorganic compounds in groundwater. 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 standard. Anomalous and/or short-term increases in concentrations should decrease once the closure activities and on-site construction is complete and equilibrium groundwater conditions are restored. CCR removal was completed in Ash Pond A in March 2022 and the expected date for completing CCR removal for Ash Pond B is 2025. Groundwater trends will continue to be monitored during future sampling events.

Santee Cooper improved the potentiometric surface characterization of the uppermost aquifer by collecting site-wide synoptic water levels and collecting water elevations in unlined ponds. The groundwater elevation measurement procedure was revised by collecting site-wide synoptic rounds of water levels within a 48-hour period prior to initiating semi-annual sampling of the groundwater monitoring wells. Groundwater elevation measurements continued to be collected in each well immediately prior to collecting the sample. Additionally, the water surface elevations of unlined ponds

were surveyed at approximately the same time as the semi-annual monitoring events. Unlined ponds are sources of hydraulic head and groundwater recharge; therefore, it is appropriate to include pond surface water elevations in the potentiometric interpretation of the uppermost aquifer. During 2023, the pond water levels and synoptic groundwater elevation measurements will be collected on a quarterly basis to gain a better understanding of changes in groundwater elevations temporally given site changes induced by closure by removal activities. Groundwater flow rate and direction are provided as Figures 2 and 3 for each sampling event as specified in § 257.93(c).

Finally, the existing groundwater model was used to evaluate how pond closure of Ash Ponds A & B along with the construction of the new Class 3 Landfill Area 2 in Ash Pond A may affect groundwater flow direction. The groundwater flow in the vicinity of Ash Ponds A & B and the new Class 3 Landfill Area 2 has historically been radial with groundwater discharge into the surrounding surface water of the Industrial Cooling Pond. The model conditions were updated to simulate predicted changes in groundwater flow following closure of Ash Pond A by removal of CCR and affected subsurface soils, backfilled with clean soil to provide the required separation between groundwater and the new landfill area, and covered by the Class 3 Landfill in 65 acres of the 90-acre footprint of Ash Pond A, with a liner meeting construction standard for a new CCR landfill. Recharge was reduced from 6-inches per year to zero in the Class 3 Landfill area because rainfall and leachate were prevented from infiltrating into the subsurface due to the liner. Recharge remained 6-inches per year around Pond B and the remaining 25 acres of Pond A because those areas 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 Area 2 is constructed, groundwater flow will shift to the north-northwest. Therefore, piezometers will be installed on the south side of the Class 3 Landfill Area 2 (within the footprint of Ash Pond A) in 2023 after landfill construction is completed to monitor for these predicted changes. This will provide the ability to proactively address any potential changes to the groundwater monitoring network for ongoing compliance.

TABLES

TABLE 1 - Summary of Analytical Results
Winyah Generating Station Ash Ponds A and B Corrective Action Monitoring 2022

Well ID	Purpose	Date of Sample Event	Laboratory Sample ID Number		Appendix III Constituents: Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH	Appendix IV Constituents: Antimony	Arsenic	Barium		Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead		Lithium	Mercury	Molybdenum	Radium 226	Radium 228	Radium 226/Radium 228 Combined Calculation	Selenium	Thallium	Field Parameters: Depth to Groundwater	Groundwater Elevation	pH	Specific Conductivity	Temperature	Oxidation Reduction Potential	Turbidity	Dissolved Oxygen
			Unit		ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	SU	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L	pCi/L	pCi/L	ug/L	ug/L	Feet (btoc)[4]	Feet (msl)[4]	SU	uS	C	mv	NTU	ppm
			Method		EPA 6010D	EPA 6010D	EPA 300.0	EPA 300.0	EPA 300.0	SM 2540C		EPA 6020B	EPA 6020B	EPA 6010D	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 6020B	EPA 300.0	EPA 6010D	EPA 6020B	EPA 6010D	EPA 7470	EPA 6010D	EPA 903.1 Mod	EPA 904.0	EPA 903.1 Mod	EPA 6020B	EPA 6020B								
			GWPS/ US EPA MCL/RSL		----	----	----	4.00	----	----	----	25.0	10.0	2000		4.00	5.00	100	6.00	4.00	15.0		40.0	2.00	100	----	----	6.00	50.0	2.00	----	----	----	----	----	----	----	----
Site Background Wells																																					
WAP-1	Background	2/15/2022	AF27187		16.4	1.54	7.74	<0.100	21.3	47.5	4.58	<2.00	7.20	43.4		<0.500	<0.500	<5.00	1.31	<0.100		<2.50	<5.00	<0.200	<5.00	1.27	0.870	2.14	<5.00	<1.00	6.79	22.7	4.58	81.0	20.9	35.0	0	0.340
WAP-1	Background	7/6/2022	AF38156		26.0	2.85	11.8	<0.100	22.3	53.8	4.59	<5.00	5.00	68.0		<0.500	<0.500	<5.00	1.41	<0.100	<10.0		<10.0	<0.200	<10.0	1.87	3.17	5.04	<2.50	<1.00	7.66	21.8	4.59	109	27.6	41.0	3.80	0.320
WAP-1	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WBW-1	Background	2/15/2022	AF27221		15.4	2.28	5.77	<0.100	10.9	293	4.16	<5.00	<3.00	22.8		<0.500	<0.500	<5.00	8.38	<0.100		<2.50	<5.00	<0.200	<5.00	0.210	2.97	3.17	<5.00	<1.00	10.4	21.6	4.16	64.0	18.1	385	5.80	7.34
WBW-1	Background	7/6/2022	AF38190		58.0	2.70	10.5	<0.100	6.94	43.8	4.31	<5.00	<3.00	44.0		<0.500	<0.500	<5.00	3.15	<0.100	<10.0		<10.0	<0.200	<10.0	0.596	3.79	4.39	<2.50	<1.00	9.99	22.0	4.31	80.0	24.0	326	1.40	4.79
WBW-1	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Ash Pond A Wells																																					
WAP-9	Corrective Action	2/22/2022	AF27195		4320	161	98.4	<0.100	216	931	6.08	<2.00	48.7	57.6		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	51.6	<0.200	<5.00	1.20	4.52	5.72	<5.00	<1.00	9.98	18.1	6.08	1250	22.4	-43.0	0	0.280
WAP-9	Corrective Action	7/13/2022	AF38164		3500	158	83.8	<0.100	199	2745	6.15	<5.00	93.0	68.0		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		42.0	<0.200	<10.0	0.525	0.672	1.20	<2.50	<1.00	10.6	17.5	6.15	1060	23.8	-152	0	0.390
WAP-9	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-17	Corrective Action	2/24/2022	AF27209		3530	186	117	<0.100	521	1185	6.35	<2.00	153	29.8		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	73.1	<0.200	43.4	0.695	0.455	1.15	<5.00	<1.00	6.38	20.5	6.35	1340	27.0	-33.0	18.8	1.61
WAP-17	Duplicate	2/24/2022	AF27210		3620	189	117	<0.100	523	1100		<2.00	155	29.6		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	75.2	<0.200	45.8	0.516	2.50	3.02	<5.00	<1.00								
WAP-17	Corrective Action	7/12/2022	AF38178		3800	240	185	<0.100	638	1316	6.05	<5.00	95.0	41.0		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		40.0	<0.200	25.0	1.04	1.93	2.97	<2.50	<1.00	7.18	19.7	6.05	1930	24.4	-104	0	0.420
WAP-17	Duplicate	7/12/2022	AF38179		4000	250	186	<0.100	640	1369		<5.00	97.0	41.0		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		40.0	<0.200	31.0	0.691	2.40	3.09	<2.50	<1.00								
WAP-17	**total samples**				4	4	4	4	4	4	2	4	4	4	0	4	4	4	4	4	2	2	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2
WAP-18	Corrective Action	2/23/2022	AF27211		1210	52.3	28.0	<0.100	131	328	5.49	<2.00	82.1	68.3		<0.500	<0.500	<5.00	1.92	<0.100		<2.50	50.2	<0.200	196	1.02	3.29	4.31	<5.00	<1.00	10.6	32.5	5.49	439	24.0	114	9.70	0.600
WAP-18	Corrective Action	7/7/2022	AF38180		1700	76.0	37.0	<0.100	172	391	5.77	<5.00	189	76.0		<0.500	<0.500	<5.00	2.07	<0.100	<10.0		50.0	<0.200	190	0.732	3.18	3.91	<2.50	<1.00	11.0	20.0	5.77	579	27.5	71.0	3.30	0.400
WAP-18	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-19	Corrective Action	2/22/2022	AF27212		3990	201	51.6	0.170	441	1110	6.81	<2.00	199	35.9		<0.500	<0.500	<5.00	<0.500	0.170		<2.50	73.3	<0.200	<5.00	1.42	2.96	4.39	<5.00	<1.00	24.2	19.2	6.81	1460	25.8	-116	3.60	0.370
WAP-19	Corrective Action	7/13/2022	AF38181		4100	320	55.0	0.600	915	1588	5.88	<5.00	117	41.0		<0.500	<0.500	<5.00	6.02	0.600	<10.0		770	<0.200	50.0	0.479	1.46	1.94	<2.50	<1.00	22.2	21.2	5.88	2030	24.4	-126	10.7	0.430
WAP-19	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-22	CMA/NE	2/23/2022	AF27215		5450	383	636	0.160	636	2561	6.53	<2.00	131	231		<5.00	<5.00	<50	<5.00	0.160		<25.0	63.2	<0.200	<5.00	7.44	3.77	11.2	<5.00	<10.0	10.1	33.3	6.53	3410	24.3	-95.0	39.8	0.340
WAP-22	CMA/NE	7/7/2022	AF38184		6400	460	670	0.130	626	2570	6.32	<5.00	66.0		280	0.600	<0.500	<5.00	<0.500	0.130	<10.0		95.0	<0.200	<10.0	6.04	3.93	9.97	<2.50	<1.00	10.5	20.0	6.32	3300	25.9	-101	3.30	0.290
WAP-22	CMA/NE	10/20/2022	AF47330		2480	270	273	<0.100	295	1432	6.71	<5.00	31.0		135	<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	21.3	<0.200	5.56	3.13	1.42	4.55	<2.50	<1.00	9.91	20.4	6.71	1790	23.0	-86.0	20.4	0.820
WAP-22	**total samples**				3	3	3	3	3	3	3	3	3	1	2	3	3	3	3	3	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Ash Pond B Wells																																					
WAP-10	Corrective Action	2/21/2022	AF27196		9000	523	802	<0.100	793	3201	6.50	<2.00	6.40	248		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0	<2.50	29.4	<0.200	<5.00	4.61	2.29	6.90	<5.00	<1.00	5.24	20.9	6.50	3950	22.2	-84.0	15.3	0.340
WAP-10	Duplicate	2/21/2022	AF27197		8820	505	806	<0.100	782	3209		<2.00	12.4	239		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0	<2.50	29.0	<0.200	<5.00	3.37	1.41	4.77	<5.00	<1.00								
WAP-10	Corrective Action	7/13/2022	AF38165		8300	460	707	<0.100	752	2819	6.46	<5.00	80.0	210		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0	<2.50	26.0	<0.200	<10.0	2.10	-0.544	2.10	<2.50	<1.00	6.2	19.9	6.46	3630	23.8	-88.0	3.60	0.400
WAP-10	Duplicate	7/13/2022	AF38166		8100	450	684	<0.100	743	2805		<5.00	86.0	210		<0.500	<0.500	<5.00	<0.500	<0.100	<10.0	<2.50	28.0	<0.200	<10.0	2.17	1.54	3.70	<2.50	<1.00								
WAP-10	**total samples**				4	4	4	4	4	4	2	4	4	4	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2
WAP-20	Corrective Action	3/7/2022	AF27213		1760	64.5	121	0.140	11.8	536	6.11	<2.00	158	123		1.30	<0.500	138	9.86	0.140		71.6	164	<0.200	15.5	2.32	5.83	8.15	<5.00	<1.00	22.0	21.1	6.11	825	22.8	-46.0	542	8.53
WAP-20	Corrective Action	7/28/2022	AF38182		1300	34.0	89.9	0.570	54.9	501	6.30	<5.00	141	90.0		0.700	<0.500	93.0	7.46	0.570	50		210	0.340	84.0				4.00	<1.00	22.3	20.8	6.30	941	31.1	-80.0	999	7.26
WAP-20	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2
WAP-21	Corrective Action	2/22/2022	AF27214		2050	64.6	13.8	<0.100	15.0	373	6.33	<2.00	<3.00	27.9		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.645	0.708	1.35	<5.00	<1.00	22.3	20.8	6.33	512	23.2	14.0	10.8	0.500
WAP-21	Corrective Action	7/14/2022	AF38183		2500	90.0	17.8	<0.100	41.1	356	6.34	<50.0	<30.0	31.0		<5.00	<5.00	<50.0	<5.00	<0.100	<10.0		<10.0	<0.200	<10.0	0.296	0.728	1.02	<2.50	<10.0	23.3	19.8	6.34	578	23.1	-130	11.3	0.400
WAP-21	**total samples**				2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-23	CMA/NE	2/22/2022	AF27216		360	164	139	<0.100	49.8	773	6.62	<2.00	<3.00	68.9		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	12.1	<0.200	<5.00	6.32	2.03	8.35	<5.00	<1.00	22.3	20.9	6.62	1190	23.5	-77.0	1.80	0.780
WAP-23	CMA/NE	7/13/2022	AF38185		1300	240	209	<0.100	156	1180	6.60	<5.00	<3.00		107	<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		18.0	<0.200	<10.0	2.05	2.14	4.19	<2.50	<1.00	23.4	19.8	6.60	1720	23.2	-92.0	14.4	0.440
WAP-23	**total samples**				2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-24	CMA/NE	2/22/2022	AF27217		27.2	43.7	46.7	<0.100	2.26	283	7.74	<2.00	<3.00		<5.00	<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.520	1.25	1.77	<5.00	<1.00	7.44	21.3	7.74	393	22.5	-155	8.00	0.500
WAP-24	CMA/NE	7/13/2022	AF38186		300	120	108	<0.100	32.3	481	7.16	<5.00	<3.00		<5.00	<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		<10.0	<0.200	<10.0	1.01	-0.120	1.01	<2.50	<1.00	9.16	19.6	7.16	769	22.1	-125	2.30	0.420
WAP-24	**total samples**				2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-25	CMA/NE	3/1/2022	AF27218		10.4	57.4	11.3	<0.100	<2.00	284	7.08	<2.00	<3.00		9.00	<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.494	1.73	2.23	<5.00	<1.00	8.01	19.1	7.08	389	22.0	-135	5.30	0.490
WAP-25	CMA/NE	7/11/2022	AF38187		21.0	64.0	11.4	<0.100	<2.00	239	7.21	<5.00	<3.00		9.68	<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		<10.0	<0.200	<10.0	1.18	1.67	2.84	<2.50	<1.00	8.86	18.2	7.21	403	21.1	-153	0	0.680
WAP-25	**total samples**				2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WAP-26	CMA/NE	2/24/2022	AF27219		20.2	16.8	8.72	<0.100	47.2	119	4.88	<2.00	<3.00	34.6		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.611	0.910	1.52	<5.00	<1.00	8.78	18.8	4.88	139	27.0	166	7.60	0.920
WAP-26	Duplicate	2/24/2022	AF27220		19.6	16.1	8.31	<0.100	51.1	83.8		<2.00	<3.00	34.3		<0.500	<0.500	<5.00	<0.500	<0.100		<2.50	<5.00	<0.200	<5.00	0.469	0.458	0.927	<5.00	<1.00								
WAP-26	CMA/NE	7/11/2022	AF38188		24.0	20.0	6.80	<0.100	58.9	105	4.97	<5.00	<3.00		45.8	<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		<10.0	<0.200	<10.0	1.60	1.47	3.07	<2.50	<1.00	9.56	18.0	4.97	171	23.8	53.0	5.30	0.500
WAP-26	Duplicate	7/11/2022	AF38189		23.0	19.0	6.77	<0.100	58.7	106		<5.00	<3.00		39.4	<0.500	<0.500	<5.00	<0.500	<0.100	<10.0		<10.0	<0.200	<10.0	0.991	0.769	1.76	<2.50	<1.00								
WAP-26	**total samples**				4	4	4	4	4	4	2	4	4	2	2	4	4	4	4	4	2	2	4	4	4	4	4	4	4	2	2	2	2	2	2	2	2
WAP-27	Baseline	10/20/2022	AF47331		2120	112	148	<0.100	95.9	688	6.16	<5.00	66.0		82.7	<0.500	<0.500	<5.00	5.03	<0.100		<2.50	11.6	<0.200	<5.00	1.40	2.72	4.12	<2.50	<1.00	23.2	20.0	6.16	1130	25.0	-78.0	0	0.750
WAP-27	Baseline	12/6/2022	AF50605		2020	97.3	168	<0.100	58.6	793	6.12	<5.00	96.8		122	<0.500	<0.500	<5.00	0.820	<0.100		<2.50	15.9	<0.200	<5.00	2.35	0.730	3.08	<2.50	<1.00	22.6	43.2	6.12	1300	21.9	-88.0	2.60	1.96
WAP-27	**total samples**				2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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

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

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

Notes:

1. Additional groundwater monitoring wells used for development of potentiometric maps. These wells monitor groundwater constituent concentrations under the SC DHEC Industrial Wastewater Permit #SC0022471 and are not used for CCR constituent concentrations.
2. Depth to Groundwater is measured below the top of the casing (btoc) to the water surface. The Top of Casing Elevation and GW Elevation are shown relative to mean sea level (msl).
3. Was not sampled during the 1st event.
4. Pond surface elevations (PSE) were collected to aid in the potentiometric surface interpretation.

FIGURES



LEGEND

- 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

N

0 950 1,900

SCALE IN FEET

SANTEE COOPER
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

LOCATION OF ASH POND A & B GROUNDWATER MONITORING WELLS FOR CCR COMPLIANCE

JANUARY 2023

FIGURE 1



GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_12\132892_008_00MB_WINYAH_POTENTIOMETRIC_MAPS.mxd — USER: khaskins — LAST SAVED: 12/12/2022 4:23:05 PM

LEGEND

- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL (LATERAL EXTENT)
- NATURE AND EXTENT MONITORING WELL (VERTICAL EXTENT)
- UNLINED POND SURFACE ELEVATION
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- INTERMEDIATE GROUNDWATER ELEVATION CONTOUR
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.

2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:

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

3. ABBREVIATIONS:
ft/day = FEET PER DAY
V = AVERAGE LINEAR VELOCITY (ft/day)
K = HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)
Δh/ΔL = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
ne = EFFECTIVE POROSITY

4. K = 2.3 FEET PER DAY (ft/day)

5. n_e = 0.30

6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM FEBRUARY 15 THROUGH FEBRUARY 16, 2022

7. SURFACE WATER POND (PSE) ELEVATIONS WERE MEASURED ON MARCH 3, 2022.

8. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.004 FT/DAY.

9. THE NATURE AND EXTENT WELLS USED FOR VERTICAL EXTENT WERE NOT USED FOR CONTOURING THE SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE.

10. AERIAL IMAGERY SOURCE: ESRI

N

0 600 1,200
SCALE IN FEET

HALEY ALDRICH

SANTEE COOPER
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

POTENTIOMETRIC MAP
ASH PONDS A & B
FEBRUARY 15-16, 2022

DECEMBER 2022

FIGURE 2



LEGEND

- CCR MONITORING WELL
- NATURE AND EXTENT MONITORING WELL (LATERAL EXTENT)
- NATURE AND EXTENT MONITORING WELL (VERTICAL EXTENT)
- UNLINED POND SURFACE ELEVATION
- GROUNDWATER ELEVATION CONTOUR, 2-FT INTERVAL
- GROUNDWATER FLOW DIRECTION
- INTERMEDIATE GROUNDWATER ELEVATION CONTOUR
- CCR UNIT BOUNDARY
- PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS ARE APPROXIMATE.

2. AVERAGE LINEAR VELOCITY WAS CALCULATED USING:

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

3. ABBREVIATIONS:
ft/day = FEET PER DAY
V = AVERAGE LINEAR VELOCITY (ft/day)
K = HORIZONTAL HYDRAULIC CONDUCTIVITY (ft/day)
Δh/ΔL = HORIZONTAL GRADIENT (CHANGE IN HYDRAULIC HEAD / LENGTH OF HORIZONTAL HYDRAULIC FLOW PATH)
ne = EFFECTIVE POROSITY

4. K = 2.3 FEET PER DAY (ft/day)

5. n_e = 0.30

6. WATER LEVELS WERE MEASURED BY SANTEE COOPER FROM JULY 5 THROUGH JULY 6, 2022

7. AVERAGE LINEAR VELOCITY FOR THE UNIT (GEOMETRIC MEAN OF VALUES) IS 0.01 FT/DAY.

8. THE NATURE AND EXTENT WELLS USED FOR VERTICAL EXTENT WERE NOT USED FOR CONTOURING THE SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE.

9. AERIAL IMAGERY SOURCE: ESRI

N

0 600 1,200
SCALE IN FEET

HALEY ALDRICH

SANTEE COOPER
WINYAH GENERATING STATION
GEORGETOWN, SOUTH CAROLINA

POTENTIOMETRIC MAP
ASH PONDS A & B
JULY 5-6, 2022

DECEMBER 2022

FIGURE 3

GIS FILE PATH: \\haleyaldrich.com\share\gm_common\131539 - Santee Cooper\GIS\Maps\2022_12\132892_008_00MB_WINYAH_POTENTIOMETRIC_MAPS.mxd — USER: khaskins — LAST SAVED: 12/12/2022 4:23:05 PM

Appendix A – Statistical Analysis

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

TECHNICAL MEMORANDUM

August 2, 2022
File No. 132892-013

SUBJECT: Statistical Evaluation of the February 2022 Semiannual Groundwater Assessment Monitoring Data, Winyah Generating Station, Ash Pond A

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February 2022 semiannual assessment monitoring event for Ash Pond A at the Winyah Generating Station (WGS). Data for this groundwater sampling event were validated on June 7, 2022 by Santee Cooper.

BACKGROUND

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

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

STATISTICAL EVALUATION

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

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

The TL method was used to complete statistical evaluations of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

These statistical evaluations were conducted using the background dataset for all detected Appendix IV constituents using the TL. If an Appendix IV constituent concentration from the semiannual sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate if a SSL was present. 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, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat 6.3.0.0 software after testing for outlier sample results was completed to determine if any data would warrant removal from the dataset based on a likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

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

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the February 2022 semiannual assessment monitoring event were compared to their respective GWPS (Table I). A sample concentration greater than the GWPS is considered to represent a SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for downgradient wells and constituents. Consistent with previous results, arsenic, lithium, and molybdenum continue to be the only Appendix IV constituents present in groundwater at SSLs above GWPS. Groundwater trends will continue to be monitored during future sampling events.

As closure and subsequent landfill construction activities continue in the footprint of Ash Pond A, downgradient groundwater conditions remain in a state of flux. This has contributed to short-term fluctuations in the concentrations of Appendix IV SSLs. These fluctuations are expected to subside once closure and landfill construction activities are complete and equilibrium conditions are restored. Landfill construction and closure activities are anticipated to be completed in December 2022.

Table:

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

TABLE

Winyah Ash Pond A

Assessment Monitoring Statistical Analysis Summary

February 2022 Groundwater Monitoring Event

																		Inter-well Analysis						
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February 2022 Concentration	Detect?	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Antimony, Total (mg/L)																										
WBW-1	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	NA							
WAP-01	0/15	100%	0.002-0.025	0.00613	0.005	0.011		0.00002784	0.005276	0.8602	0.006	mg/L	N	0	1	NA	NA	NA				0.025		0.025		
WAP-09	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N		N		N	No
WAP-17	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N		N		N	No
WAP-18	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N		N		N	No
WAP-19	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N		N		N	No
CCR Appendix-IV: Arsenic, Total (mg/L)																										
WBW-1	0/17	100%	0.003-0.005	0.00465	0.005	0.005		6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	NA							
WAP-01	2/19	89%	0.003-0.005	0.00508	0.005	0.00731	0.0083	0.000001312	0.001145	0.2255	0.01	mg/L	N	0	0	Yes	No	NA	NA			0.008		0.010		
WAP-09	20/20	0%	-	0.219	0.194	0.4096	0.42	0.01044	0.1022	0.4666	0.01	mg/L	Y	20	0	No	No	Decreasing	Normal	0.049	Y		Y		Y	Yes
WAP-17	19/19	0%	-	0.131	0.119	0.204	0.24	0.001651	0.04064	0.3102	0.01	mg/L	Y	19	0	No	No	Decreasing	Normal	0.153	Y		Y		Y	Yes
WAP-18	17/17	0%	-	0.512	0.306	1.362	1.53	0.1992	0.4463	0.8709	0.01	mg/L	Y	17	0	No	No	Stable	Non-parametric	0.082	Y		Y		Y	Yes
WAP-19	17/17	0%	-	0.112	0.102	0.236	0.256	0.004284	0.06545	0.5852	0.01	mg/L	Y	17	0	No	No	Increasing	Normal	0.199	Y		Y		Y	Yes
CCR Appendix-IV: Barium, Total (mg/L)																										
WBW-1	17/17	0%	-	0.0139	0.0147	0.02298	0.0237	0.00002015	0.004489	0.3232	2	mg/L	N	0	0	Yes	No	Stable	Normal							
WAP-01	19/19	0%	-	0.0333	0.0353	0.0589	0.094	0.0005335	0.0231	0.6941	2	mg/L	N	0	0	No	No	Increasing	Normal			0.094		2.0		
WAP-09	20/20	0%	-	0.0748	0.06925	0.112	0.15	0.0004626	0.02151	0.2876	2	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.058	Y		N		N	No
WAP-17	19/19	0%	-	0.0492	0.048	0.07327	0.1	0.0003159	0.01777	0.3609	2	mg/L	N	0	0	Yes	No	Decreasing	Normal	0.030	Y		N		N	No
WAP-18	17/17	0%	-	0.0925	0.0915	0.1162	0.141	0.000263	0.01622	0.1753	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.068	Y		N		N	No
WAP-19	17/17	0%	-	0.0518	0.051	0.08248	0.1	0.0002931	0.01712	0.3305	2	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.036	Y		N		N	No
CCR Appendix-IV: Beryllium, Total (mg/L)																										
WBW-1	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA							
WAP-01	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA				0.0005		0.004		
WAP-09	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-17	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-18	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-19	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
CCR Appendix-IV: Cadmium, Total (mg/L)																										
WBW-1	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA								
WAP-01	0/18	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA			0.0005		0.01		
WAP-09	0/19	100%	0.0005-0.004	0.000763	0.0005	0.0022		7.325E-07	0.0008558	1.121	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-17	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-18	1/13	92%	0.0005-0.0005	0.000514	0.0005	0.000572	0.00068	2.492E-09	0.00004992	0.09716	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.00050	N		N		N	No
WAP-19	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
CCR Appendix-IV: Chromium, Total (mg/L)																										
WBW-1	1/16	94%	0.005-0.005	0.005	0.005	0.005	0.005	7.228E-21	8.502E-11	0.000000017	0.1	mg/L	N	0	0	NA	NA	NA								
WAP-01	0/18	100%	0.005-0.005	0.005	0.005	0.005		3.189E-21	5.647E-11	1.129E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA			0.005		0.1		
WAP-09	0/18	100%	0.005-0.01	0.00528	0.005	0.01		0.000002485	0.001577	0.2853	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-17	0/14	100%	0.005-0.005	0.005	0.005	0.005		1.251E-20	1.118E-10	2.237E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-18	0/13	100%	0.005-0.005	0.005	0.005	0.005		1.807E-20	1.344E-10	2.688E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-19	0/13	100%	0.005-0.005	0.005	0.005	0.005		1.807E-20	1.344E-10	2.688E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																										
WBW-1	2/17	88%	0.0005-0.0005	0.00107	0.0005	0.003516	0.00838	0.000003739	0.001934	1.808	0.006	mg/L	Y	1	0	NA	NA	NA								
WAP-01	4/17	76%	0.0005-0.0005	0.000676	0.0005	0.00152	0.0016	1.465E-07	0.0003828	0.5659	0.006	mg/L	N	0	0	NA	NA	NA	NA			0.0023		0.006		
WAP-09	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-17	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-18	5/15	67%	0.0005-0.0005	0.000819	0.0005	0.002334	0.0033	6.059E-07	0.0007784	0.9501	0.006	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	0.00192	Y		N		N	No
WAP-19	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
CCR Appendix-IV: Fluoride (mg/L)																										
WBW-1	1/18	94%	0.1-0.1	0.1	0.1	0.1	0.1	1.633E-18	1.278E-09	1.278E-08	4	mg/L	N	0	0	No	No	NA								
WAP-01	2/18	89%	0.1-0.1	0.104	0.1	0.1315	0.14	0.000131	0.01145	0.1102	4	mg/L	N	0	0	No	No	NA	Non-parametric			0.140		4.0		
WAP-09	1/18	94%	0.1-0.1	0.101	0.1	0.1015	0.11	0.000005556	0.002357	0.02344	4	mg/L	N	0	0	No	No	NA	Non-parametric	0.100	N		N		N	No
WAP-17	12/19	37%	0.1-0.1	0.152	0.14	0.257	0.32	0.004095	0.06399	0.4207	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.100	N		N		N	No
WAP-18	16/18	11%	0.1-0.1	1.17	1.27	2.076	2.51	0.4376	0.6615	0.5675	4	mg/L	N	0	0	No	No	Stable	Normal	0.100	N		N		N	No
WAP-19	14/18	22%	0.1-0.1	0.211	0.17	0.393	0.58	0.01606	0.1267	0.6002	4	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	0.170	Y		Y		N	No

Winyah Ash Pond A

Assessment Monitoring Statistical Analysis Summary

February 2022 Groundwater Monitoring Event

																		Inter-well Analysis						
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February 2022 Concentration	Detect?	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Lead, Total (mg/L)																										
WBW-1	0/16	100%	0.001-0.01	0.00184	0.001	0.004375		0.000005091	0.002256	1.224	0.015	mg/L	N	0	0	NA	NA	NA	Non-parametric			0.010		0.015		
WAP-01	4/18	78%	0.001-0.01	0.00202	0.001	0.005376	0.00456	0.000004846	0.002201	1.09	0.015	mg/L	N	0	0	Yes	No	Decreasing								
WAP-09	0/19	100%	0.001-0.05	0.00387	0.001	0.00725		0.0001251	0.01119	2.892	0.015	mg/L	N	0	1	NA	NA	NA	NA	0.003	N		N		N	No
WAP-17	0/14	100%	0.001-0.0025	0.00132	0.001	0.0025		0.000000408	0.0006387	0.4834	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N		N		N	No
WAP-18	0/13	100%	0.001-0.0025	0.00135	0.001	0.0025		4.327E-07	0.0006578	0.4886	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N		N		N	No
WAP-19	0/13	100%	0.001-0.0025	0.00135	0.001	0.0025		4.327E-07	0.0006578	0.4886	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N		N		N	No
CCR Appendix-IV: Lithium, Total (mg/L)																										
WBW-1	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	Non-parametric			0.012		0.040		
WAP-01	1/17	94%	0.005-0.01	0.0098	0.01	0.01032	0.0116	0.00000168	0.001296	0.1323	0.04	mg/L	N	0	0	Yes	No	Stable								
WAP-09	17/17	0%	-	0.0757	0.069	0.1164	0.13	0.0004341	0.02083	0.2751	0.04	mg/L	Y	17	0	No	No	Decreasing	Normal	0.052	Y		Y		Y	Yes
WAP-17	18/18	0%	-	0.302	0.27	0.5913	0.825	0.03547	0.1883	0.6239	0.04	mg/L	Y	17	0	Yes	No	Decreasing	Normal	0.073	Y		Y		Y	Yes
WAP-18	17/17	0%	-	0.264	0.24	0.508	0.54	0.01722	0.1312	0.4979	0.04	mg/L	Y	17	0	No	No	Increasing	Normal	0.050	Y		Y		Y	Yes
WAP-19	17/17	0%	-	0.25	0.255	0.301	0.305	0.002783	0.05276	0.2108	0.04	mg/L	Y	17	0	Yes	No	Stable	Non-parametric	0.073	Y		Y		Y	Yes
CCR Appendix-IV: Mercury, Total (mg/L)																										
WBW-1	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.0002		0.002		
WAP-01	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
WAP-17	0/14	100%	0.00024	0.000203	0.0002	0.000214		1.143E-10	0.00001069	0.0527	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
WAP-18	0/12	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
WAP-19	0/12	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
CCR Appendix-IV: Molybdenum, Total (mg/L)																										
WBW-1	0/17	100%	0.005-0.05	0.0121	0.01	0.018		0.00009706	0.009852	0.817	0.1	mg/L	N	0	0	NA	NA	NA	NA			0.050		0.1		
WAP-01	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA								
WAP-09	9/17	47%	0.005-0.01	0.0153	0.0109	0.03064	0.034	0.00006713	0.008193	0.537	0.1	mg/L	N	0	0	No	No	Decreasing	Non-parametric	0.005	N		N		N	No
WAP-17	17/17	0%	-	0.0688	0.049	0.158	0.35	0.005639	0.07509	1.092	0.1	mg/L	Y	2	0	Yes	No	Stable	Non-parametric	0.043	Y		N		N	No
WAP-18	16/16	0%	-	0.403	0.1525	1.7	2.9	0.5549	0.7449	1.847	0.1	mg/L	Y	9	0	Yes	No	Increasing	Non-parametric	0.196	Y		Y		Y	Yes
WAP-19	14/16	12%	0.005-0.05	0.0368	0.04005	0.0555	0.057	0.0002308	0.01519	0.4128	0.1	mg/L	N	0	0	No	No	Stable	Normal	0.005	N		N		N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																										
WBW-1	10/17	41%	0-4	2.93	4	4.298	4.33	2.45	1.565	0.5338	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric			5.97		5.97		
WAP-01	12/17	29%	4-4	3.45	4	5.786	5.97	2.527	1.59	0.4612	5	pCi/L	Y	3	0	No	No	Decreasing	Normal							
WAP-09	14/17	18%	4-4	3.71	4	5.416	5.72	1.787	1.337	0.3601	5	pCi/L	Y	2	0	No	No	Decreasing	Normal	5.720	Y		N		N	No
WAP-17	10/17	41%	4-4	2.91	4	4.614	5.51	2.97	1.723	0.5918	5	pCi/L	Y	1	0	No	No	Decreasing	Non-parametric	1.150	Y		N		N	No
WAP-18	10/17	41%	4-4	3.29	4	4.34	4.46	1.493	1.222	0.3709	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	4.310	Y		N		N	No
WAP-19	8/17	53%	4-4	3.22	4	4.278	4.39	1.44	1.2	0.3721	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	4.390	Y		N		N	No
CCR Appendix-IV: Selenium, Total (mg/L)																										
WBW-1	0/16	100%	0.005-0.02	0.0109	0.01	0.02		0.00001406	0.00375	0.3429	0.05	mg/L	N	0	0	NA	NA	NA	NA			0.020		0.05		
WAP-01	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000125	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/19	100%	0.005-0.05	0.0126	0.01	0.023		0.00009547	0.009771	0.7735	0.05	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N	No
WAP-17	0/14	100%	0.005-0.02	0.0111	0.01	0.02		0.00001607	0.004009	0.3621	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-18	0/13	100%	0.005-0.02	0.0112	0.01	0.02		0.00001731	0.00416	0.373	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-19	0/13	100%	0.005-0.02	0.0112	0.01	0.02		0.00001731	0.00416	0.373	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
CCR Appendix-IV: Thallium, Total (mg/L)																										
WBW-1	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001		0.002		
WAP-01	0/15	100%	0.0001-0.001	0.00094	0.001	0.001		0.000000054	0.0002324	0.2472	0.002	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No
WAP-17	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No
WAP-18	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No
WAP-19	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No

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TECHNICAL MEMORANDUM

December 30, 2022
File No. 132892-013

SUBJECT: Statistical Evaluation of the Summer 2022 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 for the summer 2022 semiannual corrective action monitoring event for Winyah Generating Station (WGS) Ash Pond A. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

BACKGROUND

All CCR and non-CCR wastewater inflows to the WGS Ash Pond A 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 Standard (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 wells.

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4)) represents a 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, Inc. on October 14, 2017.

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

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

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

After testing for outliers, the UTLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed.[1] A visual inspection of the data was performed using distribution plots for the downgradient sample data. Based on our review, no sample data were identified as outliers that warranted removal from the dataset.

The background well (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. The background dataset will be updated after the 2023 second semiannual sampling event in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance).

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

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

- Arsenic SSLs at WAP-09, WAP-17, WAP-18, and WAP-19
- Lithium SSLs at WAP-09, WAP-18, and WAP-19
- Molybdenum SSL at WAP-18

As closure and subsequent landfill construction activities continue in the footprint of Ash Pond A, downgradient groundwater conditions may continue in a state of flux, contributing to potential short-

[1] Visual and statistical outlier tests for background data were performed using Chemstat 6.3.0.0 and U.S. Environmental Protection Agency's ProUCL 5.1 software.

term fluctuations in some of the concentrations of Appendix IV SSLs. The fluctuations are expected to subside once aquifer equilibrium conditions are restored. Landfill construction and closure activities are anticipated to be completed in December 2022 or shortly thereafter.

Enclosures:

Table I – WGS Ash Pond A Summer 2022 Semiannual Corrective Action Monitoring Data

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TABLE

TABLE I
WGS ASH POND A
SUMMER 2022 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA

																		Inter-well Analysis						
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	July 2022 Concentration	Detect?	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Antimony, Total (mg/L)																										
WBW-1	0/16	100%	0.005-0.025	0.00625	0.005	0.01		0.000025	0.005	0.8	0.006	mg/L	N	0	1	NA	NA	NA	NA			0.025		0.025		
WAP-01	0/16	100%	0.002-0.025	0.00606	0.005	0.01		0.00002606	0.005105	0.8421	0.006	mg/L	N	0	1	NA	NA	NA								
WAP-09	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N	No
WAP-17	0/15	100%	0.002-0.025	0.00613	0.005	0.011		0.00002784	0.005276	0.8602	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N	No
WAP-18	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N	No
WAP-19	0/14	100%	0.002-0.025	0.00621	0.005	0.012		0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N		N		N	No
CCR Appendix-IV: Arsenic, Total (mg/L)																										
WBW-1	0/18	100%	0.003-0.005	0.00456	0.005	0.005		0.000000732	0.0008556	0.1878	0.01	mg/L	N	0	0	NA	NA	NA	NA			0.008		0.010		
WAP-01	3/20	85%	0.003-0.005	0.00507	0.005	0.007255	0.0083	0.000001243	0.001115	0.2197	0.01	mg/L	N	0	0	Yes	No	NA								
WAP-09	21/21	0%	-	0.213	0.193	0.409	0.42	0.01068	0.1033	0.4851	0.01	mg/L	Y	21	0	No	No	Decreasing	Normal	0.093	Y		Y		Y	Yes
WAP-17	20/20	0%	-	0.129	0.1165	0.202	0.24	0.001629	0.04036	0.3124	0.01	mg/L	Y	20	0	No	No	Decreasing	Non-parametric	0.095	Y		Y		Y	Yes
WAP-18	18/18	0%	-	0.494	0.302	1.352	1.53	0.1932	0.4396	0.8891	0.01	mg/L	Y	18	0	No	No	Stable	Non-parametric	0.189	Y		Y		Y	Yes
WAP-19	18/18	0%	-	0.112	0.103	0.2348	0.256	0.004034	0.06351	0.5664	0.01	mg/L	Y	18	0	No	No	Increasing	Normal	0.117	Y		Y		Y	Yes
CCR Appendix-IV: Barium, Total (mg/L)																										
WBW-1	18/18	0%	-	0.0156	0.01485	0.02675	0.044	0.00006934	0.008327	0.5351	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric			0.094		2.0		
WAP-01	20/20	0%	-	0.0357	0.0376	0.08165	0.094	0.0006193	0.02489	0.6978	2	mg/L	N	0	0	Yes	No	Increasing	Non-parametric							
WAP-09	21/21	0%	-	0.075	0.0697	0.11	0.15	0.0004408	0.021	0.2798	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.080	Y		N		N	No
WAP-17	20/20	0%	-	0.0488	0.0471	0.07179	0.1	0.0003027	0.0174	0.3562	2	mg/L	N	0	0	Yes	No	Decreasing	Normal	0.041	Y		N		N	No
WAP-18	18/18	0%	-	0.0916	0.0913	0.1147	0.141	0.0002627	0.01621	0.1769	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.076	Y		N		N	No
WAP-19	18/18	0%	-	0.0514	0.0483	0.08139	0.1	0.0002795	0.01672	0.3255	2	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.044	Y		N		N	No
CCR Appendix-IV: Beryllium, Total (mg/L)																										
WBW-1	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA			0.0005		0.004		
WAP-01	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-17	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-18	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-19	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
CCR Appendix-IV: Cadmium, Total (mg/L)																										
WBW-1	0/17	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA			0.0005		0.01		
WAP-01	0/19	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/20	100%	0.0005-0.004	0.00075	0.0005	0.0021		6.974E-07	0.0008351	1.113	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-17	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-18	1/14	93%	0.0005-0.0005	0.000513	0.0005	0.000563	0.00068	2.314E-09	0.00004811	0.0938	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.00050	N		N		N	No
WAP-19	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
CCR Appendix-IV: Chromium, Total (mg/L)																										
WBW-1	1/17	94%	0.005-0.005	0.005	0.005	0.005	0.005	3.388E-21	5.821E-11	1.164E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA			0.005		0.1		
WAP-01	0/19	100%	0.005-0.005	0.005	0.005	0.005		0	0	0	0.1	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/19	100%	0.005-0.01	0.00526	0.005	0.01		0.000002368	0.001539	0.2798	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-17	0/15	100%	0.005-0.005	0.005	0.005	0.005		7.744E-21	8.8E-11	1.76E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-18	0/14	100%	0.005-0.005	0.005	0.005	0.005		1.251E-20	1.118E-10	2.237E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
WAP-19	0/14	100%	0.005-0.005	0.005	0.005	0.005		1.251E-20	1.118E-10	2.237E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N		N		N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																										
WBW-1	3/18	83%	0.0005-0.0005	0.00118	0.0005	0.003934	0.00838	0.000003759	0.001939	1.636	0.006	mg/L	Y	1	0	NA	NA	NA	NA			0.0084		0.008		
WAP-01	5/18	72%	0.0005-0.0005	0.000717	0.0005	0.001515	0.0016	1.678E-07	0.0004097	0.5712	0.006	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-17	0/17	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N		N		N	No
WAP-18	6/16	62%	0.0005-0.0005	0.000898	0.0005	0.002378	0.0033	6.633E-07	0.0008144	0.9075	0.006	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	0.00207	Y		N		N	No
WAP-19	1/16	94%	0.0005-0.0005	0.000845	0.0005	0.00188	0.00602	0.000001904	0.00138	1.633	0.006	mg/L	Y	1	0	NA	NA	NA	NA	0.0060	Y		N		N	No
CCR Appendix-IV: Fluoride (mg/L)																										
WBW-1	1/19	95%	0.1-0.1	0.1	0.1	0.1	0.1	0	0	0	4	mg/L	N	0	0	No	No	NA	Non-parametric			0.140		4.0		
WAP-01	2/19	89%	0.1-0.1	0.104	0.1	0.131	0.14	0.0001246	0.01116	0.1076	4	mg/L	N	0	0	No	No	NA								
WAP-09	1/19	95%	0.1-0.1	0.101	0.1	0.101	0.11	0.000005263	0.002294	0.02282	4	mg/L	N	0	0	No	No	NA	Non-parametric	0.100	N		N		N	No
WAP-17	12/20	40%	0.1-0.1	0.15	0.125	0.2535	0.32	0.004016	0.06337	0.4239	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.100	N		N		N	No
WAP-18	16/19	16%	0.1-0.1	1.11	1.2	2.051	2.51	0.473	0.6878	0.6199	4	mg/L	N	0	0	No	No	Stable	Normal	0.100	N		N		N	No
WAP-19	15/19	21%	0.1-0.1	0.232	0.17	0.582	0.6	0.02313	0.1521	0.6567	4	mg/L	N	0	0	Yes	No	Increasing	Non-parametric	0.600	Y		Y		N	No
CCR Appendix-IV: Lead, Total (mg/L)																										
WBW-1	0/17	100%	0.001-0.01	0.00232	0.001	0.01		0.000008686	0.002947	1.268	0.015	mg/L	N	0	0	NA	NA	NA	Non-parametric			0.010		0.015		
WAP-01	4/19	79%	0.001-0.01	0.00204	0.001	0.005104	0.00456	0.000004589	0.002142	1.048	0.015	mg/L	N	0	0	Yes	No	NA								
WAP-09	0/20	100%	0.001-0.05	0.0038	0.001	0.004875		0.0001186	0.01089	2.866	0.015	mg/L	N	0	1	NA	NA	NA	NA	0.003	N		N		N	No
WAP-17	0/15	100%	0.001-0.01	0.0019	0.001	0.00475		0.0000054	0.002324	1.223	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.010	N		N		N	No
WAP-18	0/14	100%	0.001-0.01	0.00196	0.001	0.005125		0.000005749	0.002398	1.221	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.010	N		N		N	No
WAP-19	0/14	100%	0.001-0.01	0.00196	0.001	0.005125		0.000005749	0.002398	1.221	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.010	N		N		N	No
CCR Appendix-IV: Lithium, Total (mg/L)																										
WBW-1	0/18	100%	0.005-0.01	0.00972	0.01	0.01		0.000001389	0.001179	0.1212	0.04	mg/L	N	0	0	NA	NA	NA	Non-parametric			0.012		0.040		
WAP-01	1/18	94%	0.005-0.01	0.00981	0.01	0.01024	0.0116	0.000001583	0.001258	0.1283	0.04	mg/L	N	0	0	Yes	No	Stable								
WAP-09	18/18	0%	-	0.0739	0.0685	0.1155	0.13	0.0004718	0.02172	0.2941	0.04	mg/L	Y	18	0	No	No	Decreasing	Normal	0.042	Y		Y		Y	Yes
WAP-17	19/19	0%	-	0.288	0.25	0.5775	0.825	0.03711	0.1926	0.6687	0.04	mg/L	Y	17	0	Yes	No	Decreasing	Normal	0.040	Y		Y		N	No
WAP-18	18/18	0%	-	0.252	0.225	0.506	0.54	0.01874	0.1369	0.5439	0.04	mg/L	Y	18	0	No	No	Stable	Normal	0.050	Y		Y		Y	Yes
WAP-19	18/18	0%	-	0.279	0.2575	0.3747	0.77	0.01763	0.1328	0.4756	0.04	mg/L	Y	18	0	Yes	No	Stable	Non-parametric	0.770	Y		Y		Y	Yes

TABLE I
WGS ASH POND A
SUMMER 2022 SEMIANNUAL CORRECTIVE ACTION MONITORING DATA

																		Inter-well Analysis						
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	July 2022 Concentration	Detect?	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Mercury, Total (mg/L)																										
WBW-1	0/16	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.0002		0.002		
WAP-01	0/16	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
WAP-17	0/15	100%	0.0002-0.00024	0.000203	0.0002	0.000212		1.067E-10	0.00001033	0.05096	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
WAP-18	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
WAP-19	0/14	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00020	N		N		N	No
CCR Appendix-IV: Molybdenum, Total (mg/L)																										
WBW-1	0/18	100%	0.005-0.05	0.0119	0.01	0.016		0.00009158	0.00957	0.8012	0.1	mg/L	N	0	0	NA	NA	NA	NA			0.050		0.1		
WAP-01	0/18	100%	0.005-0.01	0.00972	0.01	0.01		0.000001389	0.001179	0.1212	0.1	mg/L	N	0	0	NA	NA	NA								
WAP-09	9/18	50%	0.005-0.01	0.015	0.01045	0.03043	0.034	0.00006472	0.008045	0.5375	0.1	mg/L	N	0	0	No	No	Decreasing	Non-parametric	0.010	N		N		N	No
WAP-17	18/18	0%	-	0.0664	0.047	0.146	0.35	0.005414	0.07358	1.109	0.1	mg/L	Y	2	0	Yes	No	Stable	Non-parametric	0.025	Y		N		N	No
WAP-18	17/17	0%	-	0.391	0.165	1.62	2.9	0.5229	0.7231	1.851	0.1	mg/L	Y	10	0	Yes	No	Increasing	Non-parametric	0.190	Y		Y		Y	Yes
WAP-19	15/17	12%	0.005-0.05	0.0376	0.041	0.0554	0.057	0.0002266	0.01505	0.4006	0.1	mg/L	N	0	0	No	No	Stable	Normal	0.050	Y		N		N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																										
WBW-1	11/18	39%	0-4	3.01	4	4.339	4.39	2.424	1.557	0.5167	5	pCi/L	N	0	0	No	No	Stable	Non-parametric			5.97		5.97		
WAP-01	13/18	28%	4-4	3.54	4	5.774	5.97	2.519	1.587	0.449	5	pCi/L	Y	4	0	No	No	Stable	Normal							
WAP-09	15/18	17%	4-4	3.57	4	5.397	5.72	2.032	1.426	0.399	5	pCi/L	Y	2	0	No	No	Decreasing	Normal	1.200	Y		N		N	No
WAP-17	11/18	39%	4-4	2.92	4	4.558	5.51	2.795	1.672	0.5735	5	pCi/L	Y	1	0	No	No	Decreasing	Non-parametric	2.970	Y		N		N	No
WAP-18	11/18	39%	4-4	3.33	4	4.332	4.46	1.426	1.194	0.3588	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	3.910	Y		N		N	No
WAP-19	9/18	50%	4-4	3.15	4	4.271	4.39	1.447	1.203	0.3814	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric	1.940	Y		N		N	No
CCR Appendix-IV: Selenium, Total (mg/L)																										
WBW-1	0/17	100%	0.0025-0.02	0.0104	0.01	0.02		0.00001737	0.004168	0.3992	0.05	mg/L	N	0	0	NA	NA	NA	NA			0.020		0.05		
WAP-01	0/19	100%	0.0025-0.02	0.0104	0.01	0.02		0.00001546	0.003932	0.3783	0.05	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/20	100%	0.0025-0.05	0.0121	0.01	0.0215		0.00009558	0.009776	0.8063	0.05	mg/L	N	0	1	NA	NA	NA	NA	0.003	N		N		N	No
WAP-17	0/15	100%	0.0025-0.02	0.0105	0.01	0.02		0.00001982	0.004452	0.424	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.003	N		N		N	No
WAP-18	0/14	100%	0.0025-0.02	0.0105	0.01	0.02		0.00002133	0.004618	0.4383	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.003	N		N		N	No
WAP-19	0/14	100%	0.0025-0.02	0.0105	0.01	0.02		0.00002133	0.004618	0.4383	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.003	N		N		N	No
CCR Appendix-IV: Thallium, Total (mg/L)																										
WBW-1	0/16	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA			0.001		0.002		
WAP-01	0/16	100%	0.0001-0.001	0.000944	0.001	0.001		5.063E-08	0.000225	0.2384	0.002	mg/L	N	0	0	NA	NA	NA								
WAP-09	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No
WAP-17	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No
WAP-18	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No
WAP-19	0/14	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N		N		N	No

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TECHNICAL MEMORANDUM

August 15, 2022, Revision 1
File No. 132892-013

SUBJECT: Statistical Evaluation of the February-March 2022 Semiannual Groundwater Assessment Monitoring Data, Winyah Generating Station, Ash Pond B

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §257.93 and §257.94 (Rule), this memorandum summarizes the statistical evaluation of the groundwater analytical results obtained for the February 2022 semiannual assessment monitoring event for Ash Pond B at the Winyah Generating Station (WGS). Data for this groundwater sampling event were validated on June 7, 2022 by Santee Cooper.

BACKGROUND

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

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

STATISTICAL EVALUATION

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

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

The TL method was used to complete statistical evaluations of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the upper tolerance limit (UTL). Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

These statistical evaluations were conducted using the background dataset for all detected Appendix IV constituents using the TL. If an Appendix IV constituent concentration from the semiannual sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent was used to evaluate if a SSL was present. 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, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat 6.3.0.0 software after testing for outlier sample results was completed to determine if any data would warrant removal from the dataset based on a likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

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

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the February-March 2022 semiannual assessment monitoring event were compared to their respective GWPS (Table I). A sample concentration greater or LCL than the GWPS is considered to represent a SSL. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were utilized for constituents in the downgradient wells and. Consistent with previous results, arsenic and lithium have SSLs above the GWPS. Molybdenum, which was detected above GWPS during prior sampling events, was not detected at an SSL during this semiannual sampling event.

Chromium, cobalt and lead, and radium concentrations were identified above the GWPS for the first time. The LCL for each of these constituents was calculated and was below the GWPS. Therefore, the concentrations were not SSLs. Chromium, cobalt and lead concentrations at WAP-20 are attributed the very small water column in that well, which has been going effectively dry (i.e., dropping water table) and is caused by the closure-by-removal construction activities that are currently underway. The field representative returned to WAP-20 several time during sampling activities to allow the well to recharge to obtain the required volume of groundwater for laboratory analysis. Due to well not being sampled under low-flow conditions, which can cause elevated turbidity, the concentrations are not likely representative of groundwater concentrations. Short-term increases in the concentrations of Appendix IV constituents are not unexpected during closure, excavation, or construction activities. Anomalous concentrations should decrease once the closure is complete and equilibrium groundwater conditions are restored. The expected date for completing CCR removal for Ash Pond B is 2025. Groundwater trends will continue to be monitored during future sampling events.

Tables:

Table I –Assessment Monitoring Statistical Analysis Summary – February-March 2022 Groundwater Monitoring Event

TABLES

Winyah Ash Pond B

Assessment Monitoring Statistical Analysis Summary

February-March 2022 Groundwater Monitoring Event

																		Inter-well Analysis							
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February/March 2022 Concentration	Detect?	95 LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Antimony, Total (mg/L)																											
WBW-1	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	NA				0.025		0.025		
WAP-01	0/15	100%	0.002-0.025	0.00613	0.005	0.011		0.00002784	0.005276	0.8602	0.006	mg/L	N	0	1	NA	NA	NA									
WAP-10	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N			N		N	No
WAP-20	1/14	93%	0.005-0.025	0.00621	0.005	0.012	0.002	0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	Y			N		N	No
WAP-21	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.002	N			N		N	No
CCR Appendix-IV: Arsenic, Total (mg/L)																											
WBW-1	0/17	100%	0.003-0.005	0.00465	0.005	0.005		6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	NA				0.008		0.010		
WAP-01	2/19	89%	0.003-0.005	0.00508	0.005	0.00731	0.0083	0.000001312	0.001145	0.2255	0.01	mg/L	N	0	0	Yes	No	NA									
WAP-10	11/19	42%	0.005-0.005	0.0271	0.0059	0.14	0.14	0.001819	0.04265	1.577	0.01	mg/L	Y	7	0	Yes	No	Decreasing	Non-parametric	0.006	Y			N		N	No
WAP-20	17/17	0%	-	0.0763	0.0663	0.146	0.158	0.001705	0.0413	0.5415	0.01	mg/L	Y	17	0	No	No	Decreasing	Normal	0.158	Y	0.059		Y		Y	Yes
WAP-21	0/17	100%	0.003-0.005	0.00465	0.005	0.005		6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
CCR Appendix-IV: Barium, Total (mg/L)																											
WBW-1	17/17	0%	-	0.0139	0.0147	0.02298	0.0237	0.00002015	0.004489	0.3232	2	mg/L	N	0	0	Yes	No	Stable	Normal				0.094		2.000		
WAP-01	19/19	0%	-	0.0333	0.0353	0.0589	0.094	0.0005335	0.0231	0.6941	2	mg/L	N	0	0	No	No	Increasing	Normal								
WAP-10	19/19	0%	-	0.276	0.269	0.3366	0.396	0.001356	0.03683	0.1334	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.248	Y			Y		N	No
WAP-20	17/17	0%	-	0.0507	0.044	0.095	0.123	0.0006519	0.02553	0.5034	2	mg/L	N	0	0	Yes	No	Stable	Normal	0.123	Y			Y		N	No
WAP-21	17/17	0%	-	0.0575	0.0552	0.118	0.15	0.001065	0.03264	0.5674	2	mg/L	N	0	0	Yes	No	Decreasing	Normal	0.028	Y			N		N	No
CCR Appendix-IV: Beryllium, Total (mg/L)																											
WBW-1	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA				0.0005		0.004		
WAP-01	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-20	1/14	93%	0.0005-0.0005	0.000557	0.0005	0.00078	0.0013	4.571E-08	0.0002138	0.3838	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0013	Y			Y		N	No
WAP-21	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
CCR Appendix-IV: Cadmium, Total (mg/L)																											
WBW-1	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA									
WAP-01	0/18	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA				0.0005		0.005		
WAP-10	0/18	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-20	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-21	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
CCR Appendix-IV: Chromium, Total (mg/L)																											
WBW-1	1/16	94%	0.005-0.005	0.005	0.005	0.005	0.005	7.228E-21	8.502E-11	0.000000017	0.1	mg/L	N	0	0	NA	NA	NA									
WAP-01	0/18	100%	0.005-0.005	0.005	0.005	0.005		3.189E-21	5.647E-11	1.129E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA				0.0050		0.100		
WAP-10	0/18	100%	0.005-0.005	0.005	0.005	0.005		3.189E-21	5.647E-11	1.129E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-20	1/14	93%	0.005-0.005	0.0145	0.005	0.05155	0.138	0.001263	0.03555	2.451	0.1	mg/L	Y	1	0	No	No	NA	NA	0.138	Y	0.005		N		N	No
WAP-21	0/13	100%	0.005-0.005	0.005	0.005	0.005		1.807E-20	1.344E-10	2.688E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																											
WBW-1	2/17	88%	0.0005-0.0005	0.00107	0.0005	0.003516	0.00838	0.000003739	0.001934	1.808	0.006	mg/L	Y	1	0	NA	NA	NA									
WAP-01	4/17	76%	0.0005-0.0005	0.000676	0.0005	0.00152	0.0016	1.465E-07	0.0003828	0.5659	0.006	mg/L	N	0	0	No	No	NA	NA				0.0023		0.006		
WAP-10	0/17	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-20	14/17	18%	0.0005-0.001	0.0015	0.001	0.003412	0.00986	0.000004748	0.002179	1.45	0.006	mg/L	Y	1	0	Yes	No	Increasing	Non-parametric	0.0099	Y	0.0008		N		N	No
WAP-21	1/17	94%	0.0005-0.01	0.00108	0.0005	0.002632	0.00079	0.000005294	0.002301	2.138	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.0005	N			N		N	No
CCR Appendix-IV: Fluoride (mg/L)																											
WBW-1	1/18	94%	0.1-0.1	0.1	0.1	0.1	0.1	1.633E-18	1.278E-09	1.278E-08	4	mg/L	N	0	0	No	No	NA									
WAP-01	2/18	89%	0.1-0.1	0.104	0.1	0.1315	0.14	0.000131	0.01145	0.1102	4	mg/L	N	0	0	No	No	NA	Non-parametric				0.140		4.00		
WAP-10	2/18	89%	0.1-0.1	0.104	0.1	0.1245	0.15	0.0001546	0.01243	0.1197	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.100	N			N		N	No
WAP-20	18/18	0%	-	0.538	0.575	0.739	0.79	0.03173	0.1781	0.3309	4	mg/L	N	0	0	No	No	Stable	Normal	0.140	Y			N		N	No
WAP-21	0/18	100%	0.1-0.1	0.1	0.1	0.1		1.633E-18	1.278E-09	1.278E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.100	N			N		N	No
CCR Appendix-IV: Lead, Total (mg/L)																											
WBW-1	0/16	100%	0.001-0.01	0.00184	0.001	0.004375		0.000005091	0.002256	1.224	0.015	mg/L	N	0	0	NA	NA	NA									
WAP-01	4/18	78%	0.001-0.01	0.00202	0.001	0.005376	0.00456	0.000004846	0.002201	1.09	0.015	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.0100		0.015		
WAP-10	0/18	100%	0.001-0.01	0.00175	0.001	0.003625		0.000004566	0.002137	1.221	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No
WAP-20	2/14	86%	0.001-0.0025	0.00628	0.001	0.02668	0.0716	0.0003538	0.01881	2.996	0.015	mg/L	Y	1	0	Yes	No	NA	Non-parametric	0.072	Y	0.001		N		N	No
WAP-21	0/13	100%	0.001-0.0025	0.00135	0.001	0.0025		4.327E-07	0.0006578	0.4886	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.003	N			N		N	No

Winyah Ash Pond B

Assessment Monitoring Statistical Analysis Summary

February-March 2022 Groundwater Monitoring Event

																		Inter-well Analysis							
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	February/March 2022 Concentration	Detect?	95 LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Lithium, Total (mg/L)																											
WBW-1	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	Non-parametric				0.012		0.040		
WAP-01	1/17	94%	0.005-0.01	0.0098	0.01	0.01032	0.0116	0.00000168	0.001296	0.1323	0.04	mg/L	N	0	0	Yes	No	Stable									
WAP-10	17/17	0%	-	0.0262	0.0231	0.0358	0.0466	0.0000442	0.006648	0.2538	0.04	mg/L	Y	1	0	Yes	No	Stable	Non-parametric	0.029	Y			Y		N	No
WAP-20	17/17	0%	-	0.245	0.24	0.3612	0.406	0.007016	0.08376	0.3422	0.04	mg/L	Y	17	0	No	No	Stable	Normal	0.164	Y	0.209		Y		Y	Yes
WAP-21	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
CCR Appendix-IV: Mercury, Total (mg/L)																											
WBW-1	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA				0.0002		0.0020		
WAP-01	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
WAP-20	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
WAP-21	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
CCR Appendix-IV: Molybdenum, Total (mg/L)																											
WBW-1	0/17	100%	0.005-0.05	0.0121	0.01	0.018		0.00009706	0.009852	0.817	0.1	mg/L	N	0	0	NA	NA	NA	NA				0.050		0.10		
WAP-01	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-20	17/17	0%	-	0.139	0.13	0.3194	0.397	0.01096	0.1047	0.755	0.1	mg/L	Y	10	0	No	No	Stable	Normal	0.016	Y			N		N	No
WAP-21	0/17	100%	0.005-0.05	0.0121	0.01	0.018		0.00009706	0.009852	0.817	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																											
WBW-1	10/17	41%	0-4	2.93	4	4.298	4.33	2.45	1.565	0.5338	5	pCi/L	N	0	0	No	No	Decreasing	Non-parametric				5.97		6.0		
WAP-01	12/17	29%	4-4	3.45	4	5.786	5.97	2.527	1.59	0.4612	5	pCi/L	Y	3	0	No	No	Decreasing	Normal								
WAP-10	17/17	0%	-	5.27	5.63	6.902	6.91	1.75	1.323	0.2508	5	pCi/L	Y	11	0	No	No	Stable	Normal	6.900	Y	4.71		N		N	No
WAP-20	10/17	41%	4-4	3.39	4	5.134	8.15	3.284	1.812	0.5351	5	pCi/L	Y	1	0	Yes	No	Decreasing	Non-parametric	8.150	Y	1.68		N		N	No
WAP-21	13/17	24%	4-4	3.39	4	5.166	5.67	2.868	1.693	0.4989	5	pCi/L	Y	2	0	No	No	Decreasing	Non-parametric	1.350	Y			N		N	No
CCR Appendix-IV: Selenium, Total (mg/L)																											
WBW-1	0/16	100%	0.005-0.02	0.0109	0.01	0.02		0.00001406	0.00375	0.3429	0.05	mg/L	N	0	0	NA	NA	NA	NA				0.020		0.050		
WAP-01	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000125	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000125	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-20	0/14	100%	0.005-0.02	0.0111	0.01	0.02		0.00001607	0.004009	0.3621	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-21	0/13	100%	0.005-0.02	0.0112	0.01	0.02		0.00001731	0.00416	0.373	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
CCR Appendix-IV: Thallium, Total (mg/L)																											
WBW-1	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA				0.001		0.002		
WAP-01	0/15	100%	0.0001-0.001	0.00094	0.001	0.001		0.000000054	0.0002324	0.2472	0.002	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No
WAP-20	1/14	93%	0.001-0.001	0.00104	0.001	0.00121	0.0016	2.571E-08	0.0001604	0.1538	0.002	mg/L	N	0	0	No	No	NA	Non-parametric	0.001	N			N		N	No
WAP-21	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No

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TECHNICAL MEMORANDUM

December 30, 2022
File No. 132892-013

SUBJECT: Statistical Evaluation of the Summer 2022 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 for the summer 2022 semiannual corrective action groundwater monitoring event for Winyah Generating Station (WGS) Ash Pond B. Data for this groundwater sampling event were validated on October 5, 2022 by Santee Cooper.

BACKGROUND

All 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 Standard (GWPS).

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

STATISTICAL EVALUATION

The Rule provides four specific options to statistically evaluate whether water quality downgradient of the CCR Unit (§257.93(f) (1-4)) represents a 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, Inc. on October 14, 2017.

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

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

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

After testing for outliers, the UTLs were calculated from the background dataset to evaluate whether removal of data was necessary based on sampling or measurement discrepancies. Both visual and statistical outlier tests for the background data were performed. 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 well (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. The background dataset will be updated after the 2023 second semiannual sampling event in accordance with *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (the Unified Guidance).

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

As stated, Appendix IV constituent detections from downgradient well samples were compared to their respective GWPS (Table I). Based on previous compliance sampling data and statistical evaluations, interwell comparisons were used. WAP-21 had higher relative laboratory reporting limits for antimony, arsenic, beryllium, and thallium; however, these constituents were not detected in the sample and are not considered SSLs. Consistent with previous results, arsenic and lithium have SSLs above the GWPS.

- Arsenic SSLs at WAP-10 and WAP-20
- Lithium SSL at WAP-20

Concentrations at WAP-20 are likely influenced by turbidity, which is attributed to low recharge in the monitoring well caused by the closure-by-removal construction activities currently underway. During sampling activities, several attempts were made to collect sufficient sample volume from WAP-20; consequently, radium could not be analyzed given the large sample volume to do so, even with these repeated collection attempts. Following the Summer 2022 groundwater sampling, monitoring well WAP-27 was installed by Santee Cooper with a deeper screened zone in the vicinity of WAP-20 to reach the lowered water table of the uppermost aquifer.

Anomalous concentrations should decrease once the closure is complete and equilibrium groundwater conditions are restored. The expected date for completing CCR removal for Ash Pond B is 2025. Groundwater trends will continue to be monitored during future sampling events, and WAP-27, constructed with a deeper screened zone, will be integrated by Santee Cooper as a temporary substitute for WAP-20 until the water table is restored to historical levels.

Enclosures:

Table I – WGS Ash Pond B Summer 2022 Corrective Action Monitoring Data

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TABLE

TABLE I
WGS ASH POND B
SUMMER 2022 CORRECTIVE ACTION MONITORING DATA

																		Inter-well Analysis							
Location Id	**Frequency of Detection**	**Percent Non-Detects**	**Range of Non-Detect**	**Mean**	**50th Percentile (Median)**	**95th Percentile**	**Maximum Detect**	**Variance**	**Standard Deviation**	**Coefficient of Variance**	**CCR MCL/RSL**	**Report Result Unit**	**Detection Exceedances (Y/N)**	**Number of Detection Exceedances**	**Number of Non-Detection Exceedances**	**Outlier Presence**	**Outlier Removed**	**Trend**	**Distribution Well***	**July 2022 Concentration**	**Detect?**	**95% LCL**	**Upper Tolerance Limit**	**SSI**	**GWPS (Higher of MCL/RSL or Background Limit)**	**Exceedance above Background at Individual Well**	**SSL**
CCR Appendix-IV: Antimony, Total (mg/L)																										
WBW-1	0/15	100%	0.005-0.025	0.00633	0.005	0.011		0.00002667	0.005164	0.8154	0.006	mg/L	N	0	1	NA	NA	NA	NA				0.025		0.025		
WAP-01	0/15	100%	0.002-0.025	0.00613	0.005	0.011		0.00002784	0.005276	0.8602	0.006	mg/L	N	0	1	NA	NA	NA									
WAP-10	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.005	N			N		N	No
WAP-20	1/14	93%	0.005-0.025	0.00621	0.005	0.012	0.002	0.00002987	0.005466	0.8795	0.006	mg/L	N	0	1	Yes	No	NA	NA	0.005	N			N		N	No
WAP-21	0/13	100%	0.002-0.025	0.00631	0.005	0.013		0.00003223	0.005677	0.9	0.006	mg/L	N	0	1	NA	NA	NA	NA	0.050	N			Y		Y	No
CCR Appendix-IV: Arsenic, Total (mg/L)																										
WBW-1	0/17	100%	0.003-0.005	0.00465	0.005	0.005		6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	NA				0.008		0.010		
WAP-01	2/19	89%	0.003-0.005	0.00508	0.005	0.00731	0.0083	0.000001312	0.001145	0.2255	0.01	mg/L	N	0	0	Yes	No	NA									
WAP-10	11/19	42%	0.005-0.005	0.0271	0.0059	0.14	0.14	0.001819	0.04265	1.577	0.01	mg/L	Y	7	0	No	No	Stable	Non-parametric	0.080	Y			Y		Y	Yes
WAP-20	17/17	0%	-	0.0763	0.0663	0.146	0.158	0.001705	0.0413	0.5415	0.01	mg/L	Y	17	0	No	No	Decreasing	Normal	0.141	Y	0.059		Y		Y	Yes
WAP-21	0/17	100%	0.003-0.005	0.00465	0.005	0.005		6.176E-07	0.0007859	0.1691	0.01	mg/L	N	0	0	NA	NA	NA	NA	0.030	N			Y		Y	No
CCR Appendix-IV: Barium, Total (mg/L)																										
WBW-1	17/17	0%	-	0.0139	0.0147	0.02298	0.0237	0.00002015	0.004489	0.3232	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.094		2.000		
WAP-01	19/19	0%	-	0.0333	0.0353	0.0589	0.094	0.0005335	0.0231	0.6941	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric								
WAP-10	19/19	0%	-	0.276	0.269	0.3366	0.396	0.001356	0.03683	0.1334	2	mg/L	N	0	0	Yes	No	Stable	Non-parametric	0.206	Y			Y		N	No
WAP-20	17/17	0%	-	0.0507	0.044	0.095	0.123	0.0006519	0.02553	0.5034	2	mg/L	N	0	0	No	No	Stable	Non-parametric	0.122	Y			Y		N	No
WAP-21	17/17	0%	-	0.0575	0.0552	0.118	0.15	0.001065	0.03264	0.5674	2	mg/L	N	0	0	Yes	No	Decreasing	Non-parametric	0.050	N			N		N	No
CCR Appendix-IV: Beryllium, Total (mg/L)																										
WBW-1	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA				0.0005		0.004		
WAP-01	0/15	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-20	1/14	93%	0.0005-0.0005	0.000557	0.0005	0.00078	0.0013	4.571E-08	0.0002138	0.3838	0.004	mg/L	N	0	0	No	No	NA	Non-parametric	0.0007	Y			Y		N	No
WAP-21	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.004	mg/L	N	0	0	NA	NA	NA	Distribution Well*	0.0050	N			Y		Y	No
CCR Appendix-IV: Cadmium, Total (mg/L)																										
WBW-1	0/16	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA				0.0005		0.005		
WAP-01	0/18	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/18	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-20	0/14	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-21	0/13	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.005	mg/L	N	0	0	NA	NA	NA	NA	0.0040	N			Y		N	No
CCR Appendix-IV: Chromium, Total (mg/L)																										
WBW-1	1/16	94%	0.005-0.005	0.005	0.005	0.005	0.005	7.228E-21	8.502E-11	0.000000017	0.1	mg/L	N	0	0	NA	NA	NA					0.0050		0.100		
WAP-01	0/18	100%	0.005-0.005	0.005	0.005	0.005		3.189E-21	5.647E-11	1.129E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA								
WAP-10	0/18	100%	0.005-0.005	0.005	0.005	0.005		3.189E-21	5.647E-11	1.129E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.005	N			N		N	No
WAP-20	1/14	93%	0.005-0.005	0.0145	0.005	0.05155	0.138	0.001263	0.03555	2.451	0.1	mg/L	Y	1	0	Yes	No	NA	NA	0.093	Y			N		N	No
WAP-21	0/13	100%	0.005-0.005	0.005	0.005	0.005		1.807E-20	1.344E-10	2.688E-08	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.050	N			Y		N	No
CCR Appendix-IV: Cobalt, Total (mg/L)																										
WBW-1	2/17	88%	0.0005-0.0005	0.00107	0.0005	0.003516	0.00838	0.000003739	0.001934	1.808	0.006	mg/L	Y	1	0	Yes	No	NA									
WAP-01	4/17	76%	0.0005-0.0005	0.000676	0.0005	0.00152	0.0016	1.465E-07	0.0003828	0.5659	0.006	mg/L	N	0	0	No	No	NA	Non-parametric				0.0084		0.008		
WAP-10	0/17	100%	0.0005-0.0005	0.0005	0.0005	0.0005		0	0	0	0.006	mg/L	N	0	0	NA	NA	NA	NA	0.0005	N			N		N	No
WAP-20	14/17	18%	0.0005-0.001	0.0015	0.001	0.003412	0.00986	0.000004748	0.002179	1.45	0.006	mg/L	Y	1	0	Yes	No	Stable	Non-parametric	0.00746	Y			N		N	No
WAP-21	1/17	94%	0.0005-0.01	0.00108	0.0005	0.002632	0.00079	0.000005294	0.002301	2.138	0.006	mg/L	N	0	1	Yes	No	NA	Non-parametric	0.0050	N			N		N	No
CCR Appendix-IV: Fluoride (mg/L)																										
WBW-1	1/18	94%	0.1-0.1	0.1	0.1	0.1	0.1	1.633E-18	1.278E-09	1.278E-08	4	mg/L	N	0	0	No	No	NA									
WAP-01	2/18	89%	0.1-0.1	0.104	0.1	0.1315	0.14	0.000131	0.01145	0.1102	4	mg/L	N	0	0	No	No	NA	Non-parametric				0.140		4.00		
WAP-10	2/18	89%	0.1-0.1	0.104	0.1	0.1245	0.15	0.0001546	0.01243	0.1197	4	mg/L	N	0	0	No	No	Stable	Non-parametric	0.100	N			N		N	No
WAP-20	18/18	0%	-	0.538	0.575	0.739	0.79	0.03173	0.1781	0.3309	4	mg/L	N	0	0	No	No	Stable	Normal	0.570	Y			Y		N	No
WAP-21	0/18	100%	0.1-0.1	0.1	0.1	0.1		1.633E-18	1.278E-09	1.278E-08	4	mg/L	N	0	0	NA	NA	NA	NA	0.100	N			N		N	No
CCR Appendix-IV: Lead, Total (mg/L)																										
WBW-1	0/16	100%	0.001-0.01	0.00184	0.001	0.004375		0.000005091	0.002256	1.224	0.015	mg/L	N	0	0	NA	NA	NA									
WAP-01	4/18	78%	0.001-0.01	0.00202	0.001	0.005376	0.00456	0.000004846	0.002201	1.09	0.015	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.0100		0.015		
WAP-10	0/18	100%	0.001-0.01	0.00175	0.001	0.003625		0.000004566	0.002137	1.221	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No
WAP-20	2/14	86%	0.001-0.0025	0.00628	0.001	0.02668	0.0716	0.0003538	0.01881	2.996	0.015	mg/L	Y	1	0	Yes	No	NA	Non-parametric	0.050	Y	0.001		N		N	No
WAP-21	0/13	100%	0.001-0.0025	0.00135	0.001	0.0025		4.327E-07	0.0006578	0.4886	0.015	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
CCR Appendix-IV: Lithium, Total (mg/L)																										
WBW-1	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA									
WAP-01	1/17	94%	0.005-0.01	0.0098	0.01	0.01032	0.0116	0.00000168	0.001296	0.1323	0.04	mg/L	N	0	0	Yes	No	Stable	Non-parametric				0.012		0.040		
WAP-10	17/17	0%	-	0.0262	0.0231	0.0358	0.0466	0.0000442	0.006648	0.2538	0.04	mg/L	Y	1	0	Yes	No	Stable	Non-parametric	0.026	Y			Y		N	No
WAP-20	17/17	0%	-	0.245	0.24	0.3612	0.406	0.007016	0.08376	0.3422	0.04	mg/L	Y	17	0	No	No	Stable	Normal	0.210	Y	0.209		Y		Y	Yes
WAP-21	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.04	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
CCR Appendix-IV: Mercury, Total (mg/L)																										
WBW-1	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA				0.0002		0.0020		
WAP-01	0/15	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
WAP-20	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.00034	Y			Y		N	No
WAP-21	0/13	100%	0.0002-0.0002	0.0002	0.0002	0.0002		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.0002	N			N		N	No
CCR Appendix-IV: Molybdenum, Total (mg/L)																										
WBW-1	0/17	100%	0.005-0.05	0.0121	0.01	0.018		0.00009706	0.009852	0.817	0.1	mg/L	N	0	0	NA	NA	NA									
WAP-01	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA	NA				0.050		0.10		
WAP-10	0/17	100%	0.005-0.01	0.00971	0.01	0.01		0.000001471	0.001213	0.1249	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
WAP-20	17/17	0%	-	0.139	0.13	0.3194	0.397	0.01096	0.1047	0.755	0.1	mg/L	Y	10	0	No	No	Stable	Normal	0.084	Y			Y		N	No
WAP-21	0/17	100%	0.005-0.05	0.0121	0.01	0.018		0.00009706	0.009852	0.817	0.1	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			N		N	No
CCR Appendix-IV: Radium-226 & 228 (pCi/L)																										
WBW-1	10/17	41%	0-4	2.93	4	4.298	4.33	2.45	1.565	0.5338	5	pCi/L	N	0	0	No	No	Stable	Non-parametric				5.97		5.97		
WAP-01	12/17	29%	4-4	3.45	4	5.786	5.97	2.527	1.59	0.4612	5	pCi/L	Y	3	0	No	No	Stable	Normal								
WAP-10	17/17	0%	-	5.27	5.63	6.902	6.91	1.75	1.323	0.2508	5	pCi/L	Y	11	0	No	No	Stable	Normal	2.100	Y			N		N	No
WAP-21	13/17	24%	4-4	3.39	4	5.166	5.67	2.868	1.693	0.4989	5	pCi/L	Y	2	0	No	No	Decreasing	Non-parametric	1.020	Y			N		N	No

TABLE I
WGS ASH POND B
SUMMER 2022 CORRECTIVE ACTION MONITORING DATA

																			Inter-well Analysis							
Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Mean	50th Percentile (Median)	95th Percentile	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL/RSL	Report Result Unit	Detection Exceedances (Y/N)	Number of Detection Exceedances	Number of Non-Detection Exceedances	Outlier Presence	Outlier Removed	Trend	Distribution Well*	July 2022 Concentration	Detect?	95% LCL	Upper Tolerance Limit	SSI	GWPS (Higher of MCL/RSL or Background Limit)	Exceedance above Background at Individual Well	SSL
CCR Appendix-IV: Selenium, Total (mg/L)																											
WBW-1	0/16	100%	0.005-0.02	0.0109	0.01	0.02		0.00001406	0.00375	0.3429	0.05	mg/L	N	0	0	NA	NA	NA	NA				0.020		0.050		
WAP-01	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000125	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/18	100%	0.005-0.02	0.0108	0.01	0.02		0.0000125	0.003536	0.3264	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.0025	N			N		N	No
WAP-20	0/14	100%	0.005-0.02	0.0111	0.01	0.02		0.00001607	0.004009	0.3621	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.004	Y			N		N	No
WAP-21	0/13	100%	0.005-0.02	0.0112	0.01	0.02		0.00001731	0.00416	0.373	0.05	mg/L	N	0	0	NA	NA	NA	NA	0.025	N			Y		N	No
CCR Appendix-IV: Thallium, Total (mg/L)																											
WBW-1	0/15	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA				0.001		0.002		
WAP-01	0/15	100%	0.0001-0.001	0.00094	0.001	0.001		0.000000054	0.0002324	0.2472	0.002	mg/L	N	0	0	NA	NA	NA									
WAP-10	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.001	N			N		N	No
WAP-20	1/14	93%	0.001-0.001	0.00104	0.001	0.00121	0.0016	2.571E-08	0.0001604	0.1538	0.002	mg/L	N	0	0	No	No	NA	Non-parametric	0.001	N			N		N	No
WAP-21	0/13	100%	0.001-0.001	0.001	0.001	0.001		0	0	0	0.002	mg/L	N	0	0	NA	NA	NA	NA	0.010	N			Y		Y	No

Appendix B – Laboratory Analytical Reports

santee cooper

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27187 **Location:** GW Well WAP-1 **Date:** 02/15/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-1 **Time:** 12:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	7.2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	43.4	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	1.54	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.31	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	16.4	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	47.50	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	7.74	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	21.3	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	1.27	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	0.870	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.14	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	4.58	SU	02/15/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27221 **Location:** GW Well WBW-1 **Date:** 02/15/2022 **Sample Collector:** BRT/BSB

Loc. Code WBW-1 **Time:** 11:24

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	22.8	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	2.28	mg/L	04/06/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	8.38	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Boron	15.4	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/06/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	292.5	mg/L	02/28/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	5.77	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	10.9	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	0.210	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.97	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.17	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	4.16	SU	02/15/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27195 **Location:** GW Well WAP-9 **Date:** 02/22/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-9 **Time:** 11:15

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	48.7	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	57.6	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	161	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	4320	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	51.6	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	931.2	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	98.4	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	216	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	1.20	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	4.52	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.72	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.08	SU	02/22/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27209 **Location:** GW Well WAP-17 **Date:** 02/24/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-17 **Time:** 13:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	153.0	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	29.8	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	186	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	3530	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	73.1	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	43.4	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	1185	mg/L	03/07/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/04/2022	KCWELLS	EPA 300.0
Chloride	117	mg/L	03/04/2022	KCWELLS	EPA 300.0
Sulfate	521	mg/L	03/04/2022	KCWELLS	EPA 300.0
Radium 226	0.695	pCi/L	03/18/2022	GEL	EPA 903.1 Mod
Radium 228	0.455	pCi/L	03/23/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.15	pCi/L	03/24/2022	GEL	EPA 903.1 Mod
pH	6.35	SU	02/24/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/9/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27210 **Location:** GW Well WAP-17 **Date:** 02/24/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-17 Duplicate **Time:** 13:42

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	155.0	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	29.6	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	189	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	3620	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	75.2	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	45.8	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	1100	mg/L	03/07/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/04/2022	KCWELLS	EPA 300.0
Chloride	117	mg/L	03/04/2022	KCWELLS	EPA 300.0
Sulfate	523	mg/L	03/04/2022	KCWELLS	EPA 300.0
Radium 226	0.516	pCi/L	03/18/2022	GEL	EPA 903.1 Mod
Radium 228	2.50	pCi/L	03/23/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.02	pCi/L	03/24/2022	GEL	EPA 903.1 Mod

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/9/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27211 **Location:** GW Well WAP-18 **Date:** 02/23/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-18 **Time:** 12:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	82.1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	68.3	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	52.3	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.92	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	1210	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	50.2	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	196	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/17/2022	PACE	EPA 7470
Total Dissolved Solids	327.5	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	28.0	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	131	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	1.02	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	3.29	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.31	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	5.49	SU	02/23/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/9/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27212 **Location:** GW Well WAP-19 **Date:** 02/22/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-19 **Time:** 15:14

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	199.0	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	35.9	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	201	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	3990	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	73.3	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	1110	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	0.17	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	51.6	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	441	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	1.42	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.96	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.39	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.81	SU	02/22/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/9/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27215 **Location:** GW Well WAP-22 **Date:** 02/23/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-22 **Time:** 14:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	131.0	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	231	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	5450	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	383	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cobalt	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<50	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<25	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lithium	63.2	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/17/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<10	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	2561	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	0.16	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	636	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	636	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	7.44	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
Radium 228	3.77	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	11.2	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.53	SU	02/23/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/6/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27196 **Location:** GW Well WAP-10 **Date:** 02/21/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-10 **Time:** 14:48

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	6.4	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	248	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	523	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	9000	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	29.4	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	3201	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	802	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	793	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	4.61	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.29	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	6.90	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.50	SU	02/21/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27197 **Location:** GW Well WAP-10 **Date:** 02/21/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-10 Duplicate **Time:** 14:53

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	12.4	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	239	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	505	mg/L	03/15/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	8820	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Lithium	29.0	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	03/15/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/17/2022	PACE	EPA 7470
Total Dissolved Solids	3209	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	02/23/2022	KCWELLS	EPA 300.0
Chloride	806	mg/L	02/23/2022	KCWELLS	EPA 300.0
Sulfate	782	mg/L	02/23/2022	KCWELLS	EPA 300.0
Radium 226	3.37	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	1.41	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.77	pCi/L	03/09/2022	GEL	EPA 903.1 Mod

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27213 **Location:** GW Well WAP-20 **Date:** 03/07/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-20 **Time:** 10:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	158.0	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	123	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	1.3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	64.5	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Cobalt	9.86	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	138	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	71.6	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Antimony	2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Boron	1760	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Lithium	164	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Molybdenum	15.5	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/22/2022	PACE	EPA 7470
Total Dissolved Solids	536.2	mg/L	03/14/2022	SJBROWN	SM 2540C
Fluoride	0.14	mg/L	03/10/2022	KCWELLS	EPA 300.0
Chloride	121	mg/L	03/10/2022	KCWELLS	EPA 300.0
Sulfate	11.8	mg/L	03/10/2022	KCWELLS	EPA 300.0
Radium 226	2.32	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	5.83	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	8.15	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
pH	6.11	SU	03/07/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27214 **Location:** GW Well WAP-21 **Date:** 02/22/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-21 **Time:** 12:04

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	27.9	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	64.6	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	2050	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Total Dissolved Solids	372.5	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	13.8	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	15.0	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	0.645	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	0.708	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.35	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.33	SU	02/22/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/7/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27216 **Location:** GW Well WAP-23 **Date:** 02/22/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-23 **Time:** 13:40

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	68.9	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	360	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	164	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lithium	12.1	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/17/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	772.5	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	139	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	49.8	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	6.32	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	2.03	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	8.35	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	6.62	SU	02/22/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/6/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27217 **Location:** GW Well WAP-24 **Date:** 02/22/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-24 **Time:** 10:18

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	<5	ug/L	05/24/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	27.2	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	43.7	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	282.5	mg/L	03/04/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/26/2022	KCWELLS	EPA 300.0
Chloride	46.7	mg/L	03/26/2022	KCWELLS	EPA 300.0
Sulfate	2.26	mg/L	03/26/2022	KCWELLS	EPA 300.0
Radium 226	0.520	pCi/L	03/07/2022	GEL	EPA 903.1 Mod
Radium 228	1.25	pCi/L	03/09/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.77	pCi/L	03/09/2022	GEL	EPA 903.1 Mod
pH	7.74	SU	02/22/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/6/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27218 **Location:** GW Well WAP-25 **Date:** 03/01/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-25 **Time:** 15:55

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Barium	9	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Boron	10.4	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Calcium	57.4	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cobalt	<0.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/15/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/26/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	283.8	mg/L	03/09/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/05/2022	KCWELLS	EPA 300.0
Chloride	11.3	mg/L	03/05/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	03/05/2022	KCWELLS	EPA 300.0
Radium 226	0.494	pCi/L	03/23/2022	GEL	EPA 903.1 Mod
Radium 228	1.73	pCi/L	03/31/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.23	pCi/L	03/31/2022	GEL	EPA 903.1 Mod
pH	7.08	SU	03/02/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/6/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27219 **Location:** GW Well WAP-26 **Date:** 02/24/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-26 **Time:** 14:59

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	34.6	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	20.2	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	15.8	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/17/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	118.8	mg/L	03/07/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/04/2022	KCWELLS	EPA 300.0
Chloride	8.72	mg/L	03/04/2022	KCWELLS	EPA 300.0
Sulfate	47.2	mg/L	03/04/2022	KCWELLS	EPA 300.0
Radium 226	0.611	pCi/L	03/18/2022	GEL	EPA 903.1 Mod
Radium 228	0.910	pCi/L	03/23/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.52	pCi/L	03/24/2022	GEL	EPA 903.1 Mod
pH	4.88	SU	02/25/2022	BRT/BSB	

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/6/22

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF27220 **Location:** GW Well WAP-26 **Date:** 02/24/2022 **Sample Collector:** BRT/BSB

Loc. Code WAP-26 Duplicate **Time:** 15:04

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Barium	34.3	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Beryllium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Boron	19.8	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Cadmium	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Calcium	16.1	mg/L	04/07/2022	SJHATCHE	EPA 6010D
Cobalt	<0.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Lithium	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Mercury	<0.20	ug/L	03/14/2022	PACE	EPA 7470
Molybdenum	<5.00	ug/L	04/07/2022	SJHATCHE	EPA 6010D
Antimony	<2	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Selenium	<5	ug/L	05/11/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	05/25/2022	EUROFINS SAV	EPA 6020B
Total Dissolved Solids	83.75	mg/L	03/07/2022	SJBROWN	SM 2540C
Fluoride	<0.10	mg/L	03/04/2022	KCWELLS	EPA 300.0
Chloride	8.31	mg/L	03/04/2022	KCWELLS	EPA 300.0
Sulfate	51.1	mg/L	03/04/2022	KCWELLS	EPA 300.0
Radium 226	0.469	pCi/L	03/18/2022	GEL	EPA 903.1 Mod
Radium 228	0.458	pCi/L	03/23/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	0.927	pCi/L	03/24/2022	GEL	EPA 903.1 Mod

Comments:

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

Analysis Validated: Linda Williams Validated date: 6/6/22

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38156 **Location:** GW Well WAP-1 **Date:** 07/06/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-1 **Time:** 11:37

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	5	ug/l	09/17/2022	EUROFINS SAV	EPA 6020B
Barium	68.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Calcium	2.850	mg/l	09/17/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Cobalt	1.41	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Boron	26.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	11.8	mg/L	07/11/2022	KCWELLS	EPA 300.0
Sulfate	22.3	mg/L	07/11/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	53.75	mg/L	07/11/2022	AMSOULE	SM 2540C
Radium 226	1.87	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	3.17	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	5.04	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
pH	4.59	SU	07/06/2022	DEW/BM	

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 Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38190 **Location:** GW Well WBW-1 **Date:** 07/06/2022 **Sample Collector:** DEW/BM

Loc. Code WBW-1 **Time:** 10:23

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	44.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	2.700	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	3.15	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	58.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	10.5	mg/L	07/11/2022	KCWELLS	EPA 300.0
Sulfate	6.94	mg/L	07/11/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	43.75	mg/L	07/11/2022	AMSOULE	SM 2540C
Radium 226	0.596	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	3.79	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.39	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
pH	4.31	SU	07/15/2022	DEW/BM	

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 Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38164 **Location:** GW Well WAP-9 **Date:** 07/13/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-9 **Time:** 14:34

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	93	ug/l	09/17/2022	EUROFINS SAV	EPA 6020B
Barium	68.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Calcium	158.0	mg/l	09/17/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Boron	3500.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	42.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/20/2022	KCWELLS	EPA 300.0
Chloride	83.8	mg/L	07/20/2022	KCWELLS	EPA 300.0
Sulfate	199	mg/L	07/20/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2745	mg/L	07/15/2022	AMSOULE	SM 2540C
Radium 226	0.525	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.672	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.20	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
pH	6.15	SU	07/13/2022	DEW/BM	

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 Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38178 **Location:** GW Well WAP-17 **Date:** 07/12/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-17 **Time:** 12:35

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	95	ug/L	08/26/2022	R&C	EPA 6020B
Barium	41.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Calcium	240.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	08/26/2022	R&C	EPA 6020B
Selenium	<2.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	08/26/2022	R&C	EPA 6020B
Boron	3800.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	40.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	25.0	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	185	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	638	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1316	mg/L	07/14/2022	AMSOULE	SM 2540C
Radium 226	1.04	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.93	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.97	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
pH	6.05	SU	07/12/2022	DEW/BM	

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 Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38179 **Location:** GW Well WAP-17 **Date:** 07/12/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-17 DUP **Time:** 12:40

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	97	ug/L	08/26/2022	R&C	EPA 6020B
Barium	41.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	250.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	08/26/2022	R&C	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	08/26/2022	R&C	EPA 6020B
Boron	4000.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	40.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	31.0	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	186	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	640	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1369	mg/L	07/14/2022	AMSOULE	SM 2540C
Radium 226	0.691	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	2.40	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.09	pCi/L	09/01/2022	GEL	EPA 903.1 Mod

Comments:

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

Analysis Validated: Linda Williams Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38180 **Location:** GW Well WAP-18 **Date:** 07/07/2022 **Sample Collector:** DEW/DJ

Loc. Code WAP-18 **Time:** 14:43

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	189	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	76.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	76.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	2.07	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	1700.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	50.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	190	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	37.0	mg/L	07/11/2022	KCWELLS	EPA 300.0
Sulfate	172	mg/L	07/11/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	391.2	mg/L	07/12/2022	AMSOULE	SM 2540C
Radium 226	0.732	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	3.18	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.91	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
pH	5.77	SU	07/07/2022	DEW/DJ	

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 Validated date: 10/3/22

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38181 **Location:** GW Well WAP-19 **Date:** 07/13/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-19 **Time:** 11:08

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	117	ug/L	08/26/2022	R&C	EPA 6020B
Barium	41.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	320.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	6.02	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	08/26/2022	R&C	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	08/26/2022	R&C	EPA 6020B
Boron	4100.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	770	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	50.0	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Fluoride	0.60	mg/L	07/21/2022	KCWELLS	EPA 300.0
Chloride	55.0	mg/L	07/21/2022	KCWELLS	EPA 300.0
Sulfate	915	mg/L	07/21/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1588	mg/L	07/15/2022	AMSOULE	SM 2540C
Radium 226	0.479	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.46	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.94	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
pH	5.88	SU	07/13/2022	DEW/BM	

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 Validated date: 10/3/22

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38184 **Location:** GW Well WAP-22 **Date:** 07/07/2022 **Sample Collector:** DEW/DJ

Loc. Code WAP-22 **Time:** 13:44

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	66	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	280	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Beryllium	0.6	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	6400.0	ug/L	08/26/2022	R&C	EPA 6010D
Calcium	460.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Lithium	95.0	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/14/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Radium 226	6.04	pCi/L	08/02/2022	GEL	EPA 903.1 Mod
Radium 228	3.93	pCi/L	08/02/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	9.97	pCi/L	08/05/2022	GEL	EPA 903.1 Mod
Fluoride	0.13	mg/L	07/11/2022	KCWELLS	EPA 300.0
Chloride	670	mg/L	07/11/2022	KCWELLS	EPA 300.0
Sulfate	626	mg/L	07/11/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2570	mg/L	07/12/2022	AMSOULE	SM 2540C
pH	6.32	SU	07/07/2022	DEW/DJ	

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 Final Validation Date: 10/3/22

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38165 **Location:** GW Well WAP-10 **Date:** 07/13/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-10 **Time:** 13:22

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	80	ug/l	09/17/2022	EUROFINS SAV	EPA 6020B
Barium	210	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Calcium	460.0	mg/l	09/17/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Boron	8300.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	26.0	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/20/2022	KCWELLS	EPA 300.0
Chloride	707	mg/L	07/20/2022	KCWELLS	EPA 300.0
Sulfate	752	mg/L	07/20/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2819	mg/L	07/15/2022	AMSOULE	SM 2540C
Radium 226	2.10	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	-0.544	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.10	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
pH	6.46	SU	07/13/2022	DEW/BM	

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 Validated date: 10/3/22

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38166 **Location:** GW Well WAP-10 **Date:** 07/13/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-10 DUP **Time:** 13:27

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	86	ug/l	09/17/2022	EUROFINS SAV	EPA 6020B
Barium	210	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Calcium	450.0	mg/l	09/17/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/17/2022	EUROFINS SAV	EPA 6020B
Boron	8100.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	28.0	ug/L	09/01/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	09/19/2022	EUROFINS SAV	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/20/2022	KCWELLS	EPA 300.0
Chloride	684	mg/L	07/20/2022	KCWELLS	EPA 300.0
Sulfate	743	mg/L	07/20/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	2805	mg/L	07/15/2022	AMSOULE	SM 2540C
Radium 226	2.17	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.54	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.70	pCi/L	09/01/2022	GEL	EPA 903.1 Mod

Comments:

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

Analysis Validated: Linda Williams Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38182 **Location:** GW Well WAP-20 **Date:** 07/28/2022 **Sample Collector:** DEW

Loc. Code WAP-20 **Time:** 11:00

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	141	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	90.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	0.7	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Calcium	34.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	7.46	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	93	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	50.0	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	4.0	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	1300.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	210	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	84.0	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	0.340	ug/L	08/12/2022	GEL	EPA 7470
Fluoride	0.57	mg/L	08/05/2022	KCWELLS	EPA 300.0
Chloride	89.9	mg/L	08/05/2022	KCWELLS	EPA 300.0
Sulfate	54.9	mg/L	08/05/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	501.2	mg/L	08/02/2022	AMSOULE	SM 2540C
pH	6.30	SU	07/06/2022	DEW/BM	

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 Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38183 **Location:** GW Well WAP-21 **Date:** 07/14/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-21 **Time:** 10:45

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<30	ug/l	09/22/2022	EUROFINS SAV	EPA 6020B
Barium	31.0	ug/L	08/24/2022	R&C	EPA 6010D
Beryllium	<5	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Calcium	90.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<5	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Cobalt	<5	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Chromium	<50	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Antimony	<50	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Selenium	<25	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Thallium	<10	ug/L	09/22/2022	EUROFINS SAV	EPA 6020B
Boron	2500.0	ug/L	08/26/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/26/2022	GEL	EPA 7470
Fluoride	<0.10	mg/L	07/21/2022	KCWELLS	EPA 300.0
Chloride	17.8	mg/L	07/21/2022	KCWELLS	EPA 300.0
Sulfate	41.1	mg/L	07/21/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	356.2	mg/L	07/19/2022	AMSOULE	SM 2540C
Radium 226	0.296	pCi/L	08/10/2022	GEL	EPA 903.1 Mod
Radium 228	0.728	pCi/L	08/18/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.02	pCi/L	08/18/2022	GEL	EPA 903.1 Mod
pH	6.34	SU	07/14/2022	DEW/BM	

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 Validated date: 10/3/22

Linda Williams - Supervisor Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38185 **Location:** GW Well WAP-23 **Date:** 07/13/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-23 **Time:** 12:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	107	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	1300.0	ug/L	08/26/2022	R&C	EPA 6010D
Calcium	240.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Lithium	18.0	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Radium 226	2.05	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	2.14	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.19	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/20/2022	KCWELLS	EPA 300.0
Chloride	209	mg/L	08/02/2022	KCWELLS	EPA 300.0
Sulfate	156	mg/L	08/02/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1180	mg/L	07/15/2022	AMSOULE	SM 2540C
pH	6.60	SU	07/13/2022	DEW/BM	

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 Final Validation Date: 10/3/22

Linda Williams - Supervisor Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38186 **Location:** GW Well WAP-24 **Date:** 07/13/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-24 **Time:** 15:31

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	300.0	ug/L	08/26/2022	R&C	EPA 6010D
Calcium	120.0	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Radium 226	1.01	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	-0.120	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.01	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/25/2022	KCWELLS	EPA 300.0
Chloride	108	mg/L	08/02/2022	KCWELLS	EPA 300.0
Sulfate	32.3	mg/L	07/25/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	481.2	mg/L	07/15/2022	AMSOULE	SM 2540C
pH	7.16	SU	07/13/2022	DEW/BM	

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 Final Validation Date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38187 **Location:** GW Well WAP-25 **Date:** 07/11/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-25 **Time:** 10:30

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	9.68	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	21.0	ug/L	08/26/2022	R&C	EPA 6010D
Calcium	64.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Radium 226	1.18	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.67	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	2.84	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	11.4	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	<2.0	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	238.8	mg/L	07/13/2022	AMSOULE	SM 2540C
pH	7.21	SU	07/11/2022	DEW/BM	

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 Final Validation Date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38188 **Location:** GW Well WAP-26 **Date:** 07/11/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-26 **Time:** 11:41

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/20/2022	EUROFINS SAV	EPA 6020B
Barium	45.8	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Boron	24.0	ug/L	08/26/2022	R&C	EPA 6010D
Calcium	20.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Radium 226	1.60	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	1.47	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.07	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	6.80	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	58.9	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	105.0	mg/L	07/13/2022	AMSOULE	SM 2540C
pH	4.97	SU	07/11/2022	DEW/BM	

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 Final Validation Date: 10/3/22

Linda Williams - Supervisor Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF38189 **Location:** GW Well WAP-26 **Date:** 07/11/2022 **Sample Collector:** DEW/BM

Loc. Code WAP-26 DUP **Time:** 11:46

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	<3	ug/l	09/21/2022	EUROFINS SAV	EPA 6020B
Barium	39.4	ug/L	09/20/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Boron	23.0	ug/L	08/26/2022	R&C	EPA 6010D
Calcium	19.00	mg/L	08/24/2022	R&C	EPA 6010D
Cadmium	<0.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Lead	<10	ug/L	08/24/2022	R&C	EPA 6010D
Lithium	<10	ug/L	08/26/2022	R&C	EPA 6010D
Mercury	<0.2	ug/L	07/19/2022	GEL	EPA 7470
Molybdenum	<10	ug/L	08/26/2022	R&C	EPA 6010D
Antimony	<5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	09/21/2022	EUROFINS SAV	EPA 6020B
Radium 226	0.991	pCi/L	08/09/2022	GEL	EPA 903.1 Mod
Radium 228	0.769	pCi/L	08/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	1.76	pCi/L	09/01/2022	GEL	EPA 903.1 Mod
Fluoride	<0.10	mg/L	07/13/2022	KCWELLS	EPA 300.0
Chloride	6.77	mg/L	07/13/2022	KCWELLS	EPA 300.0
Sulfate	58.7	mg/L	07/13/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	106.2	mg/L	07/13/2022	AMSOULE	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: Linda Williams Final Validation Date: 10/3/22

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF47330 **Location:** GW Well WAP-22 **Date:** 10/20/2022 **Sample Collector:** WJK/ML

Loc. Code WAP-22 **Time:** 10:47

Analysis	Result	Units	Test Date	Analyst	Method
pH	6.71	SU	10/20/2022	WJK/ML	

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 **Validated date:** 11/21/22

Linda Williams - Manager Analytical Services

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CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF47330 **Location:** GW Well WAP-22 **Date:** 10/20/2022 **Sample Collector:** WJK/ML

Loc. Code WAP-22 **Time:** 10:47

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	31	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Barium	135	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Calcium	270.0	mg/l	10/27/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Cobalt	<0.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Boron	2480	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Lithium	21.3	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Molybdenum	5.56	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	11/10/2022	EUROFINS SAV	EPA 7470
Iron	14600	ug/l	10/27/2022	EUROFINS SAV	EPA 6010D
Fluoride	<0.10	mg/L	11/02/2022	KCWELLS	EPA 300.0
Chloride	273	mg/L	11/02/2022	KCWELLS	EPA 300.0
Sulfate	295	mg/L	11/02/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	1432	mg/L	10/26/2022	SJBROWN	SM 2540C
Radium 226	3.13	pCi/L	11/13/2022	GEL	EPA 903.1 Mod
Radium 228	1.42	pCi/L	11/07/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.55	pCi/L	11/16/2022	GEL	EPA 903.1 Mod
Copper	<5	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B

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 **Validated date:** 11/21/22

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF47331 **Location:** GW Well WAP-27 **Date:** 10/20/2022 **Sample Collector:** WJK/ML

Loc. Code WAP-27 **Time:** 15:39

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	66	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Barium	82.7	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Calcium	112.0	mg/l	10/27/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Cobalt	5.03	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	10/27/2022	EUROFINS SAV	EPA 6020B
Boron	2120	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Lithium	11.6	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	11/03/2022	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	11/10/2022	EUROFINS SAV	EPA 7470
Iron	3160	ug/l	10/27/2022	EUROFINS SAV	EPA 6010D
Fluoride	<0.10	mg/L	11/02/2022	KCWELLS	EPA 300.0
Chloride	148	mg/L	11/02/2022	KCWELLS	EPA 300.0
Sulfate	95.9	mg/L	11/02/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	687.5	mg/L	10/26/2022	SJBROWN	SM 2540C
Radium 226	1.40	pCi/L	11/13/2022	GEL	EPA 903.1 Mod
Radium 228	2.72	pCi/L	11/07/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	4.12	pCi/L	11/16/2022	GEL	EPA 903.1 Mod
pH	6.16	SU	10/20/2022	WJK/ML	
Copper	<5	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Nickel	5.6	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/l	10/27/2022	EUROFINS SAV	EPA 6020B

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 **Validated date:** 11/21/22

Linda Williams - Manager Analytical Services

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SANTEE COOPER ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

LAB CERTIFICATION #08552

Sample # AF50605 **Location:** GW Well WAP-27 **Date:** 12/06/2022 **Sample Collector:** WJK/BM

Loc. Code WAP-27 **Time:** 13:25

Analysis	Result	Units	Test Date	Analyst	Method
Arsenic	96.8	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B
Barium	122	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Beryllium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Calcium	97.30	mg/l	12/13/2022	EUROFINS SAV	EPA 6010D
Cadmium	<0.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Cobalt	0.82	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Chromium	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Lead	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Antimony	<5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Selenium	<2.5	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Thallium	<1	ug/L	12/13/2022	EUROFINS SAV	EPA 6020B
Boron	2020	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Lithium	15.9	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Molybdenum	<5.00	ug/L	01/04/2023	SJHATCHE	EPA 6010D
Mercury	<0.2	ug/L	12/13/2022	EUROFINS SAV	EPA 7470
Iron	83400	ug/l	12/13/2022	EUROFINS SAV	EPA 6010D
Fluoride	<0.10	mg/L	12/07/2022	KCWELLS	EPA 300.0
Chloride	168	mg/L	12/07/2022	KCWELLS	EPA 300.0
Sulfate	58.6	mg/L	12/07/2022	KCWELLS	EPA 300.0
Total Dissolved Solids	792.5	mg/L	12/15/2022	SJBROWN	SM 2540C
Radium 226	2.35	pCi/L	12/19/2022	GEL	EPA 903.1 Mod
Radium 228	0.730	pCi/L	12/30/2022	GEL	EPA 904.0
Radium 226/228 Combined Calculation	3.08	pCi/L	01/09/2023	GEL	EPA 903.1 Mod
pH	6.12	SU	12/06/2022	MDG	
Copper	<5	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B
Nickel	<5	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B
Zinc	<20	ug/l	12/13/2022	EUROFINS SAV	EPA 6020B

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: LWW Validated date: 1/25/23

Linda Williams - Manager Analytical Services

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 680-214692-1
Client Project/Site: 125915/JM02.08.G01.1/36500

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

Attn: Linda Williams

Authorized for release by:
5/27/2022 12:55:58 PM

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

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

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

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

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Job ID: 680-214692-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-214692-1

Comments
No additional comments.

Receipt
The samples were received on 4/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.3° C.

Metals
Method 6020B: The post digestion spike % recovery for multiple analytes associated with batch 180-398185 was outside of control limits. The associated sample is: AF27188 (680-214692-2).

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

Sample Summary

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

Job ID: 680-214692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-214692-1	AF27187	Water	02/15/22 12:34	04/28/22 10:30
680-214692-2	AF27188	Water	02/21/22 10:42	04/28/22 10:30
680-214692-3	AF27189	Water	02/21/22 12:05	04/28/22 10:30
680-214692-4	AF27190	Water	02/21/22 13:35	04/28/22 10:30
680-214692-5	AF27191	Water	02/17/22 11:28	04/28/22 10:30
680-214692-6	AF27192	Water	02/17/22 14:45	04/28/22 10:30
680-214692-7	AF27193	Water	02/17/22 10:05	04/28/22 10:30
680-214692-8	AF27194	Water	02/17/22 13:39	04/28/22 10:30
680-214692-9	AF27195	Water	02/22/22 11:15	04/28/22 10:30
680-214692-10	AF27196	Water	02/21/22 14:48	04/28/22 10:30
680-214692-11	AF27197	Water	02/21/22 14:53	04/28/22 10:30
680-214692-12	AF27198	Water	02/17/22 12:23	04/28/22 10:30

Method Summary

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

Job ID: 680-214692-1

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

Protocol References:

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

Laboratory References:

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

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

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

Job ID: 680-214692-1

Qualifiers

Metals

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

Glossary

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

Detection Summary

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

Job ID: 680-214692-1

Client Sample ID: AF27187 — Lab Sample ID: 680-214692-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.22		3.00		ug/L	1		6020B	Total/NA
Cobalt	1.31		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27188 — Lab Sample ID: 680-214692-2

No Detections.

Client Sample ID: AF27189 — Lab Sample ID: 680-214692-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	1.02		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27190 — Lab Sample ID: 680-214692-4

No Detections.

Client Sample ID: AF27191 — Lab Sample ID: 680-214692-5

No Detections.

Client Sample ID: AF27192 — Lab Sample ID: 680-214692-6

No Detections.

Client Sample ID: AF27193 — Lab Sample ID: 680-214692-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.31		3.00		ug/L	1		6020B	Total/NA
Cobalt	0.705		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27194 — Lab Sample ID: 680-214692-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	220		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27195 — Lab Sample ID: 680-214692-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	48.7		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27196 — Lab Sample ID: 680-214692-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.41		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27197 — Lab Sample ID: 680-214692-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12.4		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27198 — Lab Sample ID: 680-214692-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

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

Job ID: 680-214692-1

Client Sample ID: AF27187

Date Collected: 02/15/22 12:34
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-1

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.22		3.00		ug/L		05/24/22 16:11	05/25/22 20:07	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:07	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:07	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:07	1
Cobalt	1.31		0.500		ug/L		05/24/22 16:11	05/25/22 20:07	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:07	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 14:40	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 14:40	1

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

Job ID: 680-214692-1

Client Sample ID: AF27188

Date Collected: 02/21/22 10:42
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-2

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:28	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:28	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:28	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:28	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:28	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:28	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 14:42	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 14:42	1

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

Job ID: 680-214692-1

Client Sample ID: AF27189

Date Collected: 02/21/22 12:05
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-3

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:30	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:30	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:30	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:30	1
Cobalt	1.02		0.500		ug/L		05/24/22 16:11	05/25/22 20:30	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:30	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:25	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:25	1

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

Job ID: 680-214692-1

Client Sample ID: AF27190
Date Collected: 02/21/22 13:35
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-4
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:33	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:33	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:33	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:33	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:33	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:33	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:33	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:33	1

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

Job ID: 680-214692-1

Client Sample ID: AF27191

Date Collected: 02/17/22 11:28
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-5

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:10	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:10	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:10	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:10	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:35	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:35	1

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

Job ID: 680-214692-1

Client Sample ID: AF27192

Date Collected: 02/17/22 14:45
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-6

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:12	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:12	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:12	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:12	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:38	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:38	1

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

Job ID: 680-214692-1

Client Sample ID: AF27193

Date Collected: 02/17/22 10:05
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-7

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.31		3.00		ug/L		05/24/22 16:11	05/25/22 20:20	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:20	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:20	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:20	1
Cobalt	0.705		0.500		ug/L		05/24/22 16:11	05/25/22 20:20	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:20	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:41	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:41	1

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

Job ID: 680-214692-1

Client Sample ID: AF27194

Date Collected: 02/17/22 13:39
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-8

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	220		3.00		ug/L		05/24/22 16:11	05/25/22 20:23	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:23	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:23	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:23	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:43	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:43	1

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

Job ID: 680-214692-1

Client Sample ID: AF27195

Date Collected: 02/22/22 11:15
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-9

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	48.7		3.00		ug/L		05/24/22 16:11	05/25/22 20:35	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:35	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:35	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:35	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:35	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:35	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 15:54	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 15:54	1

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

Job ID: 680-214692-1

Client Sample ID: AF27196
Date Collected: 02/21/22 14:48
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-10
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.41		3.00		ug/L		05/24/22 16:11	05/25/22 20:38	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:38	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:38	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:38	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:38	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:38	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 16:04	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 16:04	1

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

Job ID: 680-214692-1

Client Sample ID: AF27197
Date Collected: 02/21/22 14:53
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-11
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.4		3.00		ug/L		05/24/22 16:11	05/25/22 20:41	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:41	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:41	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:41	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:41	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:41	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 16:15	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 16:15	1

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

Job ID: 680-214692-1

Client Sample ID: AF27198
Date Collected: 02/17/22 12:23
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214692-12
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:25	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:25	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:25	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:25	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 16:26	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 16:26	1

Method: 6020B - Metals (ICP/MS)

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 19:49	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 19:49	1

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	97.59		ug/L		98	80 - 120
Beryllium	50.0	49.07		ug/L		98	80 - 120
Cadmium	50.0	49.44		ug/L		99	80 - 120
Chromium	100	96.03		ug/L		96	80 - 120
Cobalt	50.0	51.43		ug/L		103	80 - 120
Lead	505	490.3		ug/L		97	80 - 120
Thallium	40.0	39.07		ug/L		98	80 - 120

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

Lab Sample ID: MB 180-397966/1-A
Matrix: Water
Analysis Batch: 398185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397966

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/06/22 16:08	05/07/22 14:35	1
Antimony	2.00	U	2.00		ug/L		05/06/22 16:08	05/07/22 14:35	1

Lab Sample ID: LCS 180-397966/2-A
Matrix: Water
Analysis Batch: 398185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	1000	935.8		ug/L		94	80 - 120
Antimony	250	247.2		ug/L		99	80 - 120

Lab Sample ID: 680-214692-2 MS
Matrix: Water
Analysis Batch: 398185

Client Sample ID: AF27188
Prep Type: Total/NA
Prep Batch: 397966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	5.00	U	1000	952.8		ug/L		95	75 - 125
Antimony	2.00	U	250	247.5		ug/L		99	75 - 125

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

Lab Sample ID: 680-214692-2 MSD
Matrix: Water
Analysis Batch: 398185

Client Sample ID: AF27188
Prep Type: Total/NA
Prep Batch: 397966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	5.00	U	1000	908.6		ug/L		91	75 - 125	5	20
Antimony	2.00	U	250	246.6		ug/L		99	75 - 125	0	20

Metals

Prep Batch: 397966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	3010A	
680-214692-2	AF27188	Total/NA	Water	3010A	
680-214692-3	AF27189	Total/NA	Water	3010A	
680-214692-4	AF27190	Total/NA	Water	3010A	
680-214692-5	AF27191	Total/NA	Water	3010A	
680-214692-6	AF27192	Total/NA	Water	3010A	
680-214692-7	AF27193	Total/NA	Water	3010A	
680-214692-8	AF27194	Total/NA	Water	3010A	
680-214692-9	AF27195	Total/NA	Water	3010A	
680-214692-10	AF27196	Total/NA	Water	3010A	
680-214692-11	AF27197	Total/NA	Water	3010A	
680-214692-12	AF27198	Total/NA	Water	3010A	
MB 180-397966/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-397966/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214692-2 MS	AF27188	Total/NA	Water	3010A	
680-214692-2 MSD	AF27188	Total/NA	Water	3010A	

Analysis Batch: 398185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	EPA 6020B	397966
680-214692-2	AF27188	Total/NA	Water	EPA 6020B	397966
680-214692-3	AF27189	Total/NA	Water	EPA 6020B	397966
680-214692-4	AF27190	Total/NA	Water	EPA 6020B	397966
680-214692-5	AF27191	Total/NA	Water	EPA 6020B	397966
680-214692-6	AF27192	Total/NA	Water	EPA 6020B	397966
680-214692-7	AF27193	Total/NA	Water	EPA 6020B	397966
680-214692-8	AF27194	Total/NA	Water	EPA 6020B	397966
680-214692-9	AF27195	Total/NA	Water	EPA 6020B	397966
680-214692-10	AF27196	Total/NA	Water	EPA 6020B	397966
680-214692-11	AF27197	Total/NA	Water	EPA 6020B	397966
680-214692-12	AF27198	Total/NA	Water	EPA 6020B	397966
MB 180-397966/1-A	Method Blank	Total/NA	Water	EPA 6020B	397966
LCS 180-397966/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	397966
680-214692-2 MS	AF27188	Total/NA	Water	EPA 6020B	397966
680-214692-2 MSD	AF27188	Total/NA	Water	EPA 6020B	397966

Prep Batch: 722485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	3010A	
680-214692-2	AF27188	Total/NA	Water	3010A	
680-214692-3	AF27189	Total/NA	Water	3010A	
680-214692-4	AF27190	Total/NA	Water	3010A	
680-214692-5	AF27191	Total/NA	Water	3010A	
680-214692-6	AF27192	Total/NA	Water	3010A	
680-214692-7	AF27193	Total/NA	Water	3010A	
680-214692-8	AF27194	Total/NA	Water	3010A	
680-214692-9	AF27195	Total/NA	Water	3010A	
680-214692-10	AF27196	Total/NA	Water	3010A	
680-214692-11	AF27197	Total/NA	Water	3010A	
680-214692-12	AF27198	Total/NA	Water	3010A	
MB 680-722485/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 722485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 722803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214692-1	AF27187	Total/NA	Water	6020B	722485
680-214692-2	AF27188	Total/NA	Water	6020B	722485
680-214692-3	AF27189	Total/NA	Water	6020B	722485
680-214692-4	AF27190	Total/NA	Water	6020B	722485
680-214692-5	AF27191	Total/NA	Water	6020B	722485
680-214692-6	AF27192	Total/NA	Water	6020B	722485
680-214692-7	AF27193	Total/NA	Water	6020B	722485
680-214692-8	AF27194	Total/NA	Water	6020B	722485
680-214692-9	AF27195	Total/NA	Water	6020B	722485
680-214692-10	AF27196	Total/NA	Water	6020B	722485
680-214692-11	AF27197	Total/NA	Water	6020B	722485
680-214692-12	AF27198	Total/NA	Water	6020B	722485
MB 680-722485/1-A	Method Blank	Total/NA	Water	6020B	722485
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	6020B	722485

Lab Chronicle

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

Job ID: 680-214692-1

Client Sample ID: AF27187

Lab Sample ID: 680-214692-1

Date Collected: 02/15/22 12:34
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:07	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 14:40	RSK	TAL PIT

Client Sample ID: AF27188

Lab Sample ID: 680-214692-2

Date Collected: 02/21/22 10:42
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:28	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 14:42	RSK	TAL PIT

Client Sample ID: AF27189

Lab Sample ID: 680-214692-3

Date Collected: 02/21/22 12:05
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:30	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:25	RSK	TAL PIT

Client Sample ID: AF27190

Lab Sample ID: 680-214692-4

Date Collected: 02/21/22 13:35
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:33	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:33	RSK	TAL PIT

Client Sample ID: AF27191

Lab Sample ID: 680-214692-5

Date Collected: 02/17/22 11:28
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:10	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:35	RSK	TAL PIT

Lab Chronicle

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

Job ID: 680-214692-1

Client Sample ID: AF27192

Lab Sample ID: 680-214692-6

Date Collected: 02/17/22 14:45
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:12	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:38	RSK	TAL PIT

Client Sample ID: AF27193

Lab Sample ID: 680-214692-7

Date Collected: 02/17/22 10:05
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:20	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:41	RSK	TAL PIT

Client Sample ID: AF27194

Lab Sample ID: 680-214692-8

Date Collected: 02/17/22 13:39
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:23	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:43	RSK	TAL PIT

Client Sample ID: AF27195

Lab Sample ID: 680-214692-9

Date Collected: 02/22/22 11:15
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:35	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 15:54	RSK	TAL PIT

Client Sample ID: AF27196

Lab Sample ID: 680-214692-10

Date Collected: 02/21/22 14:48
Matrix: Water
Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:38	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 16:04	RSK	TAL PIT

Lab Chronicle

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

Job ID: 680-214692-1

Client Sample ID: AF27197

Lab Sample ID: 680-214692-11

Date Collected: 02/21/22 14:53

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:41	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 16:15	RSK	TAL PIT

Client Sample ID: AF27198

Lab Sample ID: 680-214692-12

Date Collected: 02/17/22 12:23

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:25	BJB	TAL SAV
Total/NA	Prep	3010A			397966	05/06/22 16:08	KFS	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398185	05/07/22 16:26	RSK	TAL PIT

Laboratory References:

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

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

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 5 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.601.1 / 36500

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	As, Cd, Cr, Pb, Se, Tl, Sb	Be, Co		
AF27187	WAP-1	2/15/22	1234	ERT BSB	1	P	G	GW	2	METHOD 6020	X	X		
88	WAP-2	2/21/22	1042							- PLEASE SEND TO ST LOUIS		X		
89	-3		1205							FOR Se TO MEET RL		X		
90	-4		1335									X		
91	-5	2/17/22	1128											
92	-6		1445											
93	-7		1005									X		
94	-8		1339											
95	-9	2/22/22	1115									X		
96	-10	2/21/22	1448									X		

680-214692 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJMoun	35594	4/21/22	1500	DM	TA	4.28.22	1180
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 18.9 Initial: 18 3
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ % Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Transpolar
☐ Metals in oil (As,Cd,Cr,Ni,Pb, Hg)
☐ TX
☐ GOTER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 5 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	As, Cd, Cr, Pb Se, Tl, Sb	Be, Co		
AF27197	WAP-10 DUP	2/21/22	1453	BRT BSB	1	P	G	GW	2	METHOD 6020	X	X		
98	WAP-11	2/17/22	1223	1	1	1	1	1	1	SEE SHEET FOR RLs	X	X		
										SEND A SAMPLE TO ST LOUIS FOR Se TO MEET RL				

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
JJ Brown	35594	4/21/22	1500		TM	4.28.22	1030
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 18.9/18.3 Initial: ___
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As, Cd, Cr, Ni, Pb Hg)
☐ TN
☐ COPER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

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

Chain of Custody Record

eurofins | Environment Testing America

5/27/2022

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 180-462144 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 1 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida State - South Carolina, State Program		Job #: 680-214692-1
Address: 5102 LaRoche Avenue ,	Due Date Requested: 5/4/2022			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A 7 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AF27187 (680-214692-1)	2/15/22	12 34 Eastern		Water			X	1	
AF27188 (680-214692-2)	2/21/22	10 42 Eastern		Water			X	1	
AF27189 (680-214692-3)	2/21/22	12 05 Eastern		Water			X	1	
AF27190 (680-214692-4)	2/21/22	13 35 Eastern		Water			X	1	
AF27191 (680-214692-5)	2/17/22	11.28 Eastern		Water			X	1	
AF27192 (680-214692-6)	2/17/22	14 45 Eastern		Water			X	1	
AF27193 (680-214692-7)	2/17/22	10 05 Eastern		Water			X	1	
AF27194 (680-214692-8)	2/17/22	13 39 Eastern		Water			X	1	
AF27195 (680-214692-9)	2/22/22	11 15 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.

Possible Hazard Identification *Unconfirmed*		***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*	
Deliverable Requested I, II III, IV, Other (specify)	Primary Deliverable Rank: 1	Special Instructions/QC Requirements	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: MO	Date/Time: 5-23-22 1700	Company: eetaBH	Received by: [signature]	Date/Time: 5/24 10:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 16.7 / 15.8

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

5/27/2022

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier Jerry A	Carrier Tracking No(s):	COC No: 180-462144 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry.Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 2 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida State - South Carolina State Program		Job #: 680-214692-1
Address: 5102 LaRoche Avenue ,	Due Date Requested: 5/4/2022			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 125915/JM02 08 G01 1/36500	Project #: 68008190			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N None
O - AsNaO2
P - Na2O4S
Q Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A 7 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AF27196 (680-214692-10)	2/21/22	14 48 Eastern		Water			X	1	
AF27197 (680-214692-11)	2/21/22	14 53 Eastern		Water			X	1	
AF27198 (680-214692-12)	2/17/22	12:23 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 1	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5-23-22 1700	EET PIT		5/24 6:30	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 16.4 / 15.8

Ver: 06/08/2021

Do not lift using this tag

TestAmerica

THE LEADER IN ENVIRONMENTAL

RT 98 1 10:30 A 2941 05.03

680-214692 Waybill

ORIGIN ID:SAVA (812) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROUCHE AVE

SAVANNAH, GA 31404
UNITED STATES US

SHIP DATE: 02MAY22
ACTWGT: 15.00 LB MAN
CAD: 0801261/CAFE3511

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058 REF: 5680-135598
PO: YES

Uncorrected temp 19.0 °C
Thermometer ID: No ice 16
CF -14 Initials MO
PT-WI-SR-001 effective 11/8/18

TUE - 03 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 1328 9414 2941

XN AGCA

15238
PA-US PIT

5/27/2022

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-214692-1

Login Number: 214692

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

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	

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-214692-1

Login Number: 214692
List Number: 2
Creator: Watson, Debbie

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

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

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-214692-1
Project/Site: 125915/JM02.08.G01.1/36500

Laboratory: Eurofins Savannah

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

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

Laboratory: Eurofins Pittsburgh

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

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

Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

March 17, 2022

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

RE: Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Tyriek Hooks

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

Enclosures

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

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CERTIFICATIONS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92591496001	AF27221	EPA 7470A	DBB1	1	PASI-A
92591496002	AF27187	EPA 7470A	DBB1	1	PASI-A
92591496003	AF27222	EPA 7470A	DBB1	1	PASI-A
92591496004	AF27193	EPA 7470A	DBB1	1	PASI-A
92591496005	AF27188	EPA 7470A	DBB1	1	PASI-A
92591496006	AF27189	EPA 7470A	DBB1	1	PASI-A
92591496007	AF27190	EPA 7470A	DBB1	1	PASI-A
92591496008	AF27196	EPA 7470A	DBB1	1	PASI-A
92591496009	AF27232	EPA 7470A	DBB1	1	PASI-A
92591496010	AF27233	EPA 7470A	DBB1	1	PASI-A
92591496011	AF27209	EPA 7470A	DBB1	1	PASI-A
92591496012	AF27210	EPA 7470A	DBB1	1	PASI-A
92591496013	AF27220	EPA 7470A	DBB1	1	PASI-A
92591496014	AF27207	EPA 7470A	DBB1	1	PASI-A
92591496015	AF27202	EPA 7470A	DBB1	1	PASI-A
92591496016	AF27203	EPA 7470A	DBB1	1	PASI-A
92591496017	AF27217	EPA 7470A	DBB1	1	PASI-A
92591496018	AF27195	EPA 7470A	DBB1	1	PASI-A
92591496019	AF27214	EPA 7470A	DBB1	1	PASI-A
92591496020	AF27212	EPA 7470A	DBB1	1	PASI-A
92591496021	AF27211	EPA 7470A	DBB1	1	PASI-A
92591496022	AF27229	EPA 7470A	DBB1	1	PASI-A
92591496023	AF27230	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27221 **Lab ID: 92591496001** Collected: 02/15/22 11:24 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:17	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27187 **Lab ID: 92591496002** Collected: 02/15/22 12:34 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:23	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27222 **Lab ID: 92591496003** Collected: 02/16/22 13:46 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:29	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27193 **Lab ID: 92591496004** Collected: 02/17/22 10:05 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:31	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27188 **Lab ID: 92591496005** Collected: 02/21/22 10:42 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:33	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27189 **Lab ID: 92591496006** Collected: 02/21/22 12:05 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:36	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27190 **Lab ID: 92591496007** Collected: 02/21/22 13:35 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:38	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27196 **Lab ID: 92591496008** Collected: 02/21/22 14:48 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:40	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27232 **Lab ID: 92591496009** Collected: 02/24/22 11:44 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:42	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27233 **Lab ID: 92591496010** Collected: 02/24/22 11:49 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:44	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27209 **Lab ID: 92591496011** Collected: 02/24/22 13:37 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:46	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27210 **Lab ID: 92591496012** Collected: 02/24/22 13:42 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:48	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27220 **Lab ID: 92591496013** Collected: 02/24/22 15:04 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:54	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27207 **Lab ID: 92591496014** Collected: 02/28/22 10:29 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 13:56	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27202 **Lab ID: 92591496015** Collected: 02/28/22 13:02 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	1.0	1	03/11/22 16:00	03/14/22 13:59	7439-97-6	D3

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27203 **Lab ID: 92591496016** Collected: 02/28/22 13:07 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	1.0	1	03/11/22 16:00	03/14/22 14:01	7439-97-6	D3

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27217 **Lab ID: 92591496017** Collected: 02/22/22 10:18 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 14:03	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27195 **Lab ID: 92591496018** Collected: 02/22/22 11:15 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 14:05	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27214 **Lab ID: 92591496019** Collected: 02/22/22 12:04 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 14:07	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27212 **Lab ID: 92591496020** Collected: 02/22/22 15:14 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/14/22 14:09	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27211 **Lab ID: 92591496021** Collected: 02/23/22 12:18 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/17/22 10:49	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27229 **Lab ID: 92591496022** Collected: 02/24/22 10:27 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/17/22 10:55	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Sample: AF27230 **Lab ID: 92591496023** Collected: 02/24/22 10:33 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/17/22 10:57	7439-97-6	

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QUALITY CONTROL DATA

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

QC Batch: 683594
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92591496001, 92591496002, 92591496003, 92591496004, 92591496005, 92591496006, 92591496007, 92591496008, 92591496009, 92591496010, 92591496011, 92591496012, 92591496013, 92591496014, 92591496015, 92591496016, 92591496017, 92591496018, 92591496019, 92591496020

METHOD BLANK: 3575639 Matrix: Water
Associated Lab Samples: 92591496001, 92591496002, 92591496003, 92591496004, 92591496005, 92591496006, 92591496007, 92591496008, 92591496009, 92591496010, 92591496011, 92591496012, 92591496013, 92591496014, 92591496015, 92591496016, 92591496017, 92591496018, 92591496019, 92591496020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/14/22 13:13	

LABORATORY CONTROL SAMPLE: 3575640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3575641 3575642

Parameter	Units	92591496001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.3	2.5	92	98	75-125	7	

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

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QUALITY CONTROL DATA

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

QC Batch: 683595
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92591496021, 92591496022, 92591496023

METHOD BLANK: 3575649 Matrix: Water
Associated Lab Samples: 92591496021, 92591496022, 92591496023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/17/22 10:41	

LABORATORY CONTROL SAMPLE: 3575650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3575651 3575652

Parameter	Units	92591496021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.3	97	89	75-125	8	

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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

QUALIFIERS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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Greenwood, SC 29649
(864)229-4413

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591496

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591496001	AF27221	EPA 7470A	683594	EPA 7470A	684405
92591496002	AF27187	EPA 7470A	683594	EPA 7470A	684405
92591496003	AF27222	EPA 7470A	683594	EPA 7470A	684405
92591496004	AF27193	EPA 7470A	683594	EPA 7470A	684405
92591496005	AF27188	EPA 7470A	683594	EPA 7470A	684405
92591496006	AF27189	EPA 7470A	683594	EPA 7470A	684405
92591496007	AF27190	EPA 7470A	683594	EPA 7470A	684405
92591496008	AF27196	EPA 7470A	683594	EPA 7470A	684405
92591496009	AF27232	EPA 7470A	683594	EPA 7470A	684405
92591496010	AF27233	EPA 7470A	683594	EPA 7470A	684405
92591496011	AF27209	EPA 7470A	683594	EPA 7470A	684405
92591496012	AF27210	EPA 7470A	683594	EPA 7470A	684405
92591496013	AF27220	EPA 7470A	683594	EPA 7470A	684405
92591496014	AF27207	EPA 7470A	683594	EPA 7470A	684405
92591496015	AF27202	EPA 7470A	683594	EPA 7470A	684405
92591496016	AF27203	EPA 7470A	683594	EPA 7470A	684405
92591496017	AF27217	EPA 7470A	683594	EPA 7470A	684405
92591496018	AF27195	EPA 7470A	683594	EPA 7470A	684405
92591496019	AF27214	EPA 7470A	683594	EPA 7470A	684405
92591496020	AF27212	EPA 7470A	683594	EPA 7470A	684405
92591496021	AF27211	EPA 7470A	683595	EPA 7470A	684420
92591496022	AF27229	EPA 7470A	683595	EPA 7470A	684420
92591496023	AF27230	EPA 7470A	683595	EPA 7470A	684420

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

Laboratory receiving samples:
Asheville [X] Eden [ ] Greenwood [ ] Huntersville [ ] Raleigh [ ] Mechanicsville [ ] Atlanta [ ] Kernersville [ ]

Sample Condition Upon Receipt

Client Name: Santee Cooper

Project #: WO# : 92591496

92591496

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Custody Seal Present? [ ] Yes [X] No Seals Intact? [ ] Yes [X] No

Date/Initials Person Examining Contents: 3-4-22 AR

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other

Biological Tissue Frozen? [ ] Yes [ ] No [X] N/A

Thermometer: [X] IR Gun ID: NA Type of Ice: [X] Wet [ ] Blue [ ] None

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

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

Cooler Temp Corrected (°C): NA

USDA Regulated Soil ([X] N/A, water sample)

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

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [X] No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? [ ] Yes [ ] No

Samples missing: 10 Dup, WAP-26, WAP-23, WAP-22, and WLF-A2-2.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project

WO# : 92591496

PM: TIH Due Date: 03/18/22

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH <2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project

WO#: 92591496

PM: TIH Due Date: 03/18/22

CLIENT: 97-SanteeCoo

Items#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar-Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project

WO# : 92591496

PM: TIH Due Date: 03/18/22

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Contract Lab Info: PACE-ASHE Contract Lab Due Date (Lab Only): 3 / 15 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass G/Plastic P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AF27221	WBW-1	2/15/22	1124	BSB/BRT	1	P	G	GW	2	METHOD 7470 Q1	X			
187	WAP-1		1234							Q2				
AF27222	WBW-A1-1	2/16/22	1346							Q3				
193	WAP-7	2/17/22	1005							Q4				
188	WAP-2	2/21/22	1042							Q5				
189	-3		1205							Q6				
190	-4		1335							Q7				
196	-10		1448							Q8				
197	-10 DUP		1453											

Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time
SJBrown	35594	3/3/22	1500	A.Rucker/PACE	AVL	3-4-22	1045
Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time
Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time

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

METALS (all)			MISC.		
☐ Ag	☐ Cu	☐ Sb	☐ BTEX		
☐ Al	☐ Fe	☐ Se	☐ Napthalene		
☐ As	☐ K	☐ Sn	☐ THM/HAA		
☐ B	☐ Li	☐ Sr	☐ VOC		
☐ Ba	☐ Mg	☐ Ti	☐ Oil & Grease		
☐ Be	☐ Mn	☐ Tl	☐ E. Coli		
☐ Ca	☐ Mo	☐ V	☐ Total Coliform		
☐ Cd	☐ Na	☐ Zn	☐ pH		
☐ Co	☐ Ni	☐ Hg	☐ Dissolved As		
☐ Cr	☐ Pb	☐ CrVI	☐ Dissolved Fe		
			☐ Rad 226		
			☐ Rad 228		
			☐ PCB		

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: PACE Contract Lab Due Date (Lab Only): 3 / 15 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: / /

Project/Task/Unit #: / /

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			
AF27232	WLF-A2-6	2/24/22	1144	BRT/BSB	1	P	G	GW	2	7470 C09	X			
33	6 DUP		1149							C10				
209	WAP-17		1337							C11				
210	17 DUP		1342							C12				
219	WAP-26		1459											
220	26 DUP		1504							C13				
207	WAP-15	2/28/22	1029							C14				
202	14		1302							C15				
203	14 DUP		1307							C16				

Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time
SJBrown		3/3/22	1500	A. Rucker	PACE AVL	3-4-22	1045
Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time
Relinquished by	Employee #	Date	Time	Received by	Employee #	Date	Time

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

METALS (all)		
Ag	Cu	Sb
Al	Fe	Se
As	K	Sn
B	Li	Sr
Ba	Mg	Tl
Be	Mn	Tl
Ca	Mo	V
Cd	Na	Zn
Co	Ni	Hg
Cr	Pb	Cr VI

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

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: PACE-ASHE Contract Lab Due Date (Lab Only): 3 / 15 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
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One Riverwood Drive
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Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: / /

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

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass G/Plastic P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AF27217	WAP-24	2/22/22	1018	BRT/BSB	1	P	G	GW	2	7470 017	X			
216	WAP-23		1340											
195	WAP-9		1115							018				
214	WAP-21		1204							019				
212	WAP-19		1514							020				
215	WAP-22	2/23/22	1400											
231	WLF-A2-2		1112											
211	WAP-18		1218							021				
AF27229	WLF-A2-1	2/24/22	1027							022				
230	WLF-A2-1 DUP		1033							023				

Relinquished by	Employee	Date	Time	Received by	Employee	Date	Time
[signature]		3/8/22	1500	A. Rucker	PACE/AVL	3-9-22	1045
Relinquished by	Employee	Date	Time	Received by	Employee	Date	Time
Relinquished by	Employee	Date	Time	Received by	Employee	Date	Time

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

METALS (all)		
Ag	Cu	Sb
Al	Fe	Se
As	K	Sn
B	Li	Sr
Ba	Mg	Tl
Be	Mn	Tl
Ca	Mo	V
Cd	Na	Zn
Co	Ni	Hg
Cr	Pb	Cr VI

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

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4=HCl 5=$Na_2S_2O_3$ 6=Other (Specify)

Pace Analytical™
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 3-4-22	Evaluated by: A Baker
Client: Santee Cooper	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

	Collection date/time missing or incorrect		Analyses or analytes: missing or clarification needed	X	Samples listed on COC do not match samples received (missing, additional, etc.)
	Sample IDs on COC do not match sample labels		Required trip blanks were not received		Required signatures are missing

Comments/Details/Other issues not listed above:

There are missing Samples recorded on the SCUR.

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
	Samples: Not field filtered		Containers: Broken or compromised		Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers		Vials received with improper headspace
	Samples: contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

March 24, 2022

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

Re: ABS Lab Analytical
Work Order: 571577

Dear Ms. Gilmetti:

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

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Nina Gampe for
Julie Robinson
Project Manager

Purchase Order: 367074
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 571577 GEL Work Order: 571577

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by 

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27221
Sample ID: 571577001
Matrix: Ground Water
Collect Date: 15-FEB-22 11:24
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.97	+/-1.30	1.86	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.17	+/-1.33			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.208	+/-0.280	0.481	1.00	pCi/L			LXP1	03/07/22	0837	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.5	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27187
Sample ID: 571577002
Matrix: Ground Water
Collect Date: 15-FEB-22 12:34
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.865	+/-0.881	1.45	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.14	+/-0.973			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.27	+/-0.414	0.305	1.00	pCi/L			LXP1	03/07/22	0837	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			87.3	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27222
Sample ID: 571577003
Matrix: Ground Water
Collect Date: 16-FEB-22 13:46
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	2.01	+/-1.37	2.16	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.77	+/-1.41			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.760	+/-0.340	0.350	1.00	pCi/L			LXP1	03/07/22	0837	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			84.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27193
Sample ID: 571577004
Matrix: Ground Water
Collect Date: 17-FEB-22 10:05
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.55	+/-1.38	1.93	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.94	+/-1.47			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.39	+/-0.509	0.546	1.00	pCi/L			LXP1	03/07/22	0837	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			88.3	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27188
Sample ID: 571577005
Matrix: Ground Water
Collect Date: 21-FEB-22 10:42
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.18	+/-1.45	2.12	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		12.1	+/-1.85			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		8.96	+/-1.15	0.494	1.00	pCi/L			LXP1	03/07/22	0911	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27189
Sample ID: 571577006
Matrix: Ground Water
Collect Date: 21-FEB-22 12:05
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.69	+/-1.69	2.65	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.56	+/-1.83			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.87	+/-0.702	0.384	1.00	pCi/L			LXP1	03/07/22	0911	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27190
Sample ID: 571577007
Matrix: Ground Water
Collect Date: 21-FEB-22 13:35
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.457	+/-1.10	1.96	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		7.15	+/-1.44			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		6.69	+/-0.923	0.251	1.00	pCi/L			LXP1	03/07/22	0911	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			83.6	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID:	AF27196	Project:	SOOP00119
Sample ID:	571577008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	21-FEB-22 14:48		
Receive Date:	25-FEB-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.29	+/-1.04	1.37	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.90	+/-1.27			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		4.61	+/-0.728	0.280	1.00	pCi/L			LXP1	03/07/22	0911	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: March 24, 2022

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

Client Sample ID: AF27197
Sample ID: 571577009
Matrix: Ground Water
Collect Date: 21-FEB-22 14:53
Receive Date: 25-FEB-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.41	+/-1.05	1.66	3.00	pCi/L			JXC9	03/09/22	0919	2234724	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.77	+/-1.23			pCi/L			NXL1	03/09/22	1427	2234723	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.37	+/-0.643	0.437	1.00	pCi/L			LXP1	03/07/22	0911	2234711	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.3	(15%-125%)

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

Column headers are defined as follows:

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

QC Summary

Report Date: March 24, 2022

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **571577**

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

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: 571577

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

H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 571577

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2234724

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

GEL Sample ID#	Client Sample Identification
571577001	AF27221
571577002	AF27187
571577003	AF27222
571577004	AF27193
571577005	AF27188
571577006	AF27189
571577007	AF27190
571577008	AF27196
571577009	AF27197
1205029468	Method Blank (MB)
1205029469	571574001(AF27924) Sample Duplicate (DUP)
1205029470	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Samples 1205029469 (AF27924DUP), 571577004 (AF27193) and 571577006 (AF27189) were non-homogenous matrix. Samples contain sedimentation. 571577004 (AF27193) and 571577006 (AF27189).

Quality Control (QC) Information

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

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

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2234711

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

GEL Sample ID#	Client Sample Identification
571577001	AF27221
571577002	AF27187
571577003	AF27222
571577004	AF27193
571577005	AF27188
571577006	AF27189
571577007	AF27190
571577008	AF27196
571577009	AF27197
1205029422	Method Blank (MB)
1205029423	571574001(AF27924) Sample Duplicate (DUP)
1205029424	571574001(AF27924) Matrix Spike (MS)
1205029425	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Samples 1205029423 (AF27924DUP), 1205029424 (AF27924MS) and 571577004 (AF27193) were non-homogenous matrix.

Miscellaneous Information

Additional Comments
The matrix spike, 1205029424 (AF27924MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 3 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody 571577

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes (No)

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC	
AF27221	WBW-1	2/15/22	1124	BRT/BSB	2	P	G	GW	2		X	X	X	
AF27187	WAP-1	〃	1234	〃	〃	〃	〃	〃	〃		〃	〃	〃	
AF27222	WBW-A1-1	2/16/22	1346	〃	〃	〃	〃	〃	〃		〃	〃	〃	
AF27193	WAP-7	2/17/22	1005	〃	〃	〃	〃	〃	〃		〃	〃	〃	
88	WAP-2	2/21/22	1042	〃	〃	〃	〃	〃	〃		〃	〃	〃	
89	WAP-3	〃	1205	〃	〃	〃	〃	〃	〃		〃	〃	〃	
90	WAP-4	〃	1335	〃	〃	〃	〃	〃	〃		〃	〃	〃	
96	WAP-10	〃	1448	〃	〃	〃	〃	〃	〃		〃	〃	〃	
97	WAP-10 DUP	〃	1453	〃	〃	〃	〃	〃	〃		〃	〃	〃	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJBrown	35594	2/25/22	1045		GEL	2/25/22	1045
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
		2-25-22	1305		GEL	2-25-22	1505
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

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

☐ METALS (all)

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

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
% Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals by soil
Cl, F, Cr, NO3, Br
Hg
TS
COD, Fe

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

SR

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 571574/571575/571576/571577
Received By: BE	Date Received: 2-25-22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) /mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Wet Ice Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius TEMP: 18
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NRG Date 2/28/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 24 March 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 680-214695-1
Client Project/Site: 125915/JM02.08.G01.1/36500
Revision: 1

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

Attn: Linda Williams

Authorized for release by:
5/27/2022 2:32:42 PM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

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www.eurofinsus.com/Env

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

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

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

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Job ID: 680-214695-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-214695-1

Comments
No additional comments.

Receipt
The samples were received on 4/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.3° C.

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

Sample Summary

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

Job ID: 680-214695-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-214695-1	AF27199	Water	03/01/22 11:49	04/28/22 10:30
680-214695-2	AF27200	Water	03/01/22 11:54	04/28/22 10:30
680-214695-3	AF27201	Water	03/01/22 13:01	04/28/22 10:30
680-214695-4	AF27202	Water	02/28/22 13:02	04/28/22 10:30
680-214695-5	AF27203	Water	02/28/22 13:07	04/28/22 10:30
680-214695-6	AF27204	Water	02/28/22 12:11	04/28/22 10:30
680-214695-7	AF27205	Water	02/28/22 15:21	04/28/22 10:30
680-214695-8	AF27206	Water	02/28/22 14:02	04/28/22 10:30
680-214695-9	AF27207	Water	02/28/22 10:29	04/28/22 10:30
680-214695-10	AF27208	Water	03/01/22 14:37	04/28/22 10:30
680-214695-11	AF27209	Water	02/24/22 13:37	04/28/22 10:30
680-214695-12	AF27210	Water	02/24/22 13:42	04/28/22 10:30
680-214695-13	AF27211	Water	02/23/22 12:18	04/28/22 10:30
680-214695-14	AF27212	Water	02/22/22 15:14	04/28/22 10:30
680-214695-15	AF27213	Water	03/07/22 10:37	04/28/22 10:30
680-214695-16	AF27214	Water	02/22/22 12:04	04/28/22 10:30
680-214695-17	AF27215	Water	02/23/22 14:00	04/28/22 10:30
680-214695-18	AF27216	Water	02/22/22 13:40	04/28/22 10:30
680-214695-19	AF27217	Water	02/22/22 10:18	04/28/22 10:30
680-214695-20	AF27218	Water	03/01/22 15:55	04/28/22 10:30
680-214695-21	AF27219	Water	02/24/22 14:59	04/28/22 10:30
680-214695-22	AF27220	Water	02/24/22 15:04	04/28/22 10:30

Method Summary

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

Job ID: 680-214695-1

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

Protocol References:

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

Laboratory References:

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

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

Qualifiers

Metals

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

Glossary

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

Detection Summary

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

Job ID: 680-214695-1

Client Sample ID: AF27199 — Lab Sample ID: 680-214695-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	5.05		5.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27200 — Lab Sample ID: 680-214695-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	4.55		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27201 — Lab Sample ID: 680-214695-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.560		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27202 — Lab Sample ID: 680-214695-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	31.7		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27203 — Lab Sample ID: 680-214695-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	58.7		3.00		ug/L	1		6020B	Total/NA
Cobalt	1.15		0.500		ug/L	1		6020B	Total/NA
Antimony	3.30		2.00		ug/L	1		EPA 6020B	Total/NA

Client Sample ID: AF27204 — Lab Sample ID: 680-214695-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.89		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27205 — Lab Sample ID: 680-214695-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14.3		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27206 — Lab Sample ID: 680-214695-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	1.92		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27207 — Lab Sample ID: 680-214695-9

No Detections.

Client Sample ID: AF27208 — Lab Sample ID: 680-214695-10

No Detections.

Client Sample ID: AF27209 — Lab Sample ID: 680-214695-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	153		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27210 — Lab Sample ID: 680-214695-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	155		3.00		ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF27211 — Lab Sample ID: 680-214695-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	82.1		3.00		ug/L	1		6020B	Total/NA
Cobalt	1.92		0.500		ug/L	1		6020B	Total/NA

Client Sample ID: AF27212 — Lab Sample ID: 680-214695-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	199		3.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27213 — Lab Sample ID: 680-214695-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	158		3.00		ug/L	1		6020B	Total/NA
Beryllium	1.32		0.500		ug/L	1		6020B	Total/NA
Chromium	138		5.00		ug/L	1		6020B	Total/NA
Cobalt	9.86		0.500		ug/L	1		6020B	Total/NA
Lead	71.6		2.50		ug/L	1		6020B	Total/NA
Antimony	2.16		2.00		ug/L	1		EPA 6020B	Total/NA

Client Sample ID: AF27214 — Lab Sample ID: 680-214695-16

No Detections.

Client Sample ID: AF27215 — Lab Sample ID: 680-214695-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	131		30.0		ug/L	1		6020B	Total/NA

Client Sample ID: AF27216 — Lab Sample ID: 680-214695-18

No Detections.

Client Sample ID: AF27217 — Lab Sample ID: 680-214695-19

No Detections.

Client Sample ID: AF27218 — Lab Sample ID: 680-214695-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	9.19		5.00		ug/L	1		6020B	Total/NA

Client Sample ID: AF27219 — Lab Sample ID: 680-214695-21

No Detections.

Client Sample ID: AF27220 — Lab Sample ID: 680-214695-22

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 680-214695-1

Client Sample ID: AF27199

Date Collected: 03/01/22 11:49
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-1

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	30.0	U	30.0		ug/L		05/24/22 17:36	05/25/22 22:21	1
Beryllium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:21	1
Cadmium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:21	1
Chromium	50.0	U	50.0		ug/L		05/24/22 17:36	05/25/22 22:21	1
Cobalt	5.05		5.00		ug/L		05/24/22 17:36	05/25/22 22:21	1
Lead	25.0	U	25.0		ug/L		05/24/22 17:36	05/25/22 22:21	1
Thallium	10.0	U	10.0		ug/L		05/24/22 17:36	05/25/22 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 14:06	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 14:06	1

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

Job ID: 680-214695-1

Client Sample ID: AF27200

Date Collected: 03/01/22 11:54
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-2

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:24	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:24	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:24	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:24	1
Cobalt	4.55		0.500		ug/L		05/24/22 17:36	05/25/22 22:24	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:24	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 14:55	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 14:55	1

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

Job ID: 680-214695-1

Client Sample ID: AF27201

Date Collected: 03/01/22 13:01
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-3

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:26	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:26	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:26	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:26	1
Cobalt	0.560		0.500		ug/L		05/24/22 17:36	05/25/22 22:26	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:26	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 14:58	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 14:58	1

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

Job ID: 680-214695-1

Client Sample ID: AF27202

Date Collected: 02/28/22 13:02
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-4

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31.7		3.00		ug/L		05/24/22 17:36	05/25/22 22:00	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:00	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:00	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:00	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:00	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:00	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 15:12	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 15:12	1

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

Job ID: 680-214695-1

Client Sample ID: AF27203

Date Collected: 02/28/22 13:07
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-5

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	58.7		3.00		ug/L		05/24/22 17:36	05/25/22 22:03	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:03	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:03	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:03	1
Cobalt	1.15		0.500		ug/L		05/24/22 17:36	05/25/22 22:03	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:03	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.30		2.00		ug/L		05/10/22 12:07	05/11/22 15:33	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 15:33	1

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

Job ID: 680-214695-1

Client Sample ID: AF27204

Date Collected: 02/28/22 12:11
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-6

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.89		3.00		ug/L		05/24/22 17:36	05/25/22 22:06	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:06	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:06	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:06	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:06	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:06	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 15:47	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 15:47	1

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

Job ID: 680-214695-1

Client Sample ID: AF27205

Date Collected: 02/28/22 15:21
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-7

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14.3		3.00		ug/L		05/24/22 17:36	05/25/22 22:13	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:13	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:13	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:13	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:13	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:13	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:01	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:01	1

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

Job ID: 680-214695-1

Client Sample ID: AF27206

Date Collected: 02/28/22 14:02
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-8

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:16	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:16	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:16	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:16	1
Cobalt	1.92		0.500		ug/L		05/24/22 17:36	05/25/22 22:16	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:16	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:15	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:15	1

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

Job ID: 680-214695-1

Client Sample ID: AF27207

Date Collected: 02/28/22 10:29
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-9

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 22:18	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:18	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:18	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 22:18	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 22:18	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 22:18	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:19	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:19	1

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

Job ID: 680-214695-1

Client Sample ID: AF27208

Date Collected: 03/01/22 14:37
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-10

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:02	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:02	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:02	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:02	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:02	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:02	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 16:33	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:33	1

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

Job ID: 680-214695-1

Client Sample ID: AF27209
Date Collected: 02/24/22 13:37
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-11
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	153		3.00		ug/L		05/24/22 17:36	05/25/22 21:35	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:35	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:35	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:35	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:35	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:35	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:36	1

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

Job ID: 680-214695-1

Client Sample ID: AF27210

Date Collected: 02/24/22 13:42
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-12

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	155		3.00		ug/L		05/24/22 17:36	05/25/22 21:42	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:42	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:42	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:42	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:42	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:42	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 16:50	1

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

Job ID: 680-214695-1

Client Sample ID: AF27211
Date Collected: 02/23/22 12:18
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-13
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	82.1		3.00		ug/L		05/24/22 16:11	05/25/22 21:04	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:04	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:04	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 21:04	1
Cobalt	1.92		0.500		ug/L		05/24/22 16:11	05/25/22 21:04	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 21:04	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 17:04	1

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

Job ID: 680-214695-1

Client Sample ID: AF27212

Date Collected: 02/22/22 15:14
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-14

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	199		3.00		ug/L		05/24/22 16:11	05/25/22 20:53	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:53	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:53	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:53	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:53	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:53	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 17:14	1

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

Job ID: 680-214695-1

Client Sample ID: AF27213
Date Collected: 03/07/22 10:37
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-15
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	158		3.00		ug/L		05/25/22 10:44	05/26/22 09:38	1
Beryllium	1.32		0.500		ug/L		05/25/22 10:44	05/26/22 09:38	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:38	1
Chromium	138		5.00		ug/L		05/25/22 10:44	05/26/22 09:38	1
Cobalt	9.86		0.500		ug/L		05/25/22 10:44	05/26/22 09:38	1
Lead	71.6		2.50		ug/L		05/25/22 10:44	05/26/22 09:38	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.16		2.00		ug/L		05/10/22 12:07	05/11/22 17:28	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 17:28	1

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

Job ID: 680-214695-1

Client Sample ID: AF27214

Date Collected: 02/22/22 12:04
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-16

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:56	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:56	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:56	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:56	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:56	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:56	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 17:32	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 17:32	1

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

Job ID: 680-214695-1

Client Sample ID: AF27215

Date Collected: 02/23/22 14:00
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-17

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	131		30.0		ug/L		05/24/22 17:36	05/25/22 21:30	1
Beryllium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:30	1
Cadmium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:30	1
Chromium	50.0	U	50.0		ug/L		05/24/22 17:36	05/25/22 21:30	1
Cobalt	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:30	1
Lead	25.0	U	25.0		ug/L		05/24/22 17:36	05/25/22 21:30	1
Thallium	10.0	U	10.0		ug/L		05/24/22 17:36	05/25/22 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 17:42	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 17:42	1

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

Job ID: 680-214695-1

Client Sample ID: AF27216

Date Collected: 02/22/22 13:40
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-18

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 20:59	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:59	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:59	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 20:59	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 20:59	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 20:59	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:49	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:49	1

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

Job ID: 680-214695-1

Client Sample ID: AF27217

Date Collected: 02/22/22 10:18
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-19

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 21:01	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:01	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:01	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 21:01	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 21:01	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 21:01	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 21:01	1
Barium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:52	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:52	1

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

Job ID: 680-214695-1

Client Sample ID: AF27218
Date Collected: 03/01/22 15:55
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-20
Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 09:15	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:15	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:15	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 09:15	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 09:15	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 09:15	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 09:15	1
Barium	9.19		5.00		ug/L		05/25/22 10:44	05/26/22 09:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:56	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:56	1

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

Job ID: 680-214695-1

Client Sample ID: AF27219

Date Collected: 02/24/22 14:59
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-21

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 21:45	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:45	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:45	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:45	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:45	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:45	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 18:59	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 18:59	1

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

Job ID: 680-214695-1

Client Sample ID: AF27220

Date Collected: 02/24/22 15:04
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-22

Matrix: Water

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 21:48	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:48	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:48	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:48	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:48	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:48	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 19:03	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 19:03	1

Method: 6020B - Metals (ICP/MS)

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Chromium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 16:11	05/25/22 19:49	1
Lead	2.50	U	2.50		ug/L		05/24/22 16:11	05/25/22 19:49	1
Thallium	1.00	U	1.00		ug/L		05/24/22 16:11	05/25/22 19:49	1
Barium	5.00	U	5.00		ug/L		05/24/22 16:11	05/25/22 19:49	1

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	97.59		ug/L		98	80 - 120
Beryllium	50.0	49.07		ug/L		98	80 - 120
Cadmium	50.0	49.44		ug/L		99	80 - 120
Chromium	100	96.03		ug/L		96	80 - 120
Cobalt	50.0	51.43		ug/L		103	80 - 120
Lead	505	490.3		ug/L		97	80 - 120
Thallium	40.0	39.07		ug/L		98	80 - 120
Barium	100	92.31		ug/L		92	80 - 120

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Beryllium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Cadmium	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Chromium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Cobalt	0.500	U	0.500		ug/L		05/24/22 17:36	05/25/22 21:11	1
Lead	2.50	U	2.50		ug/L		05/24/22 17:36	05/25/22 21:11	1
Thallium	1.00	U	1.00		ug/L		05/24/22 17:36	05/25/22 21:11	1
Barium	5.00	U	5.00		ug/L		05/24/22 17:36	05/25/22 21:11	1

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	96.36		ug/L		96	80 - 120
Beryllium	50.0	49.53		ug/L		99	80 - 120
Cadmium	50.0	48.90		ug/L		98	80 - 120
Chromium	100	94.29		ug/L		94	80 - 120
Cobalt	50.0	50.79		ug/L		102	80 - 120
Lead	505	487.3		ug/L		97	80 - 120
Thallium	40.0	38.55		ug/L		96	80 - 120

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

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	100	92.53		ug/L		93	80 - 120

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.00	U	3.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Beryllium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cadmium	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Chromium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Cobalt	0.500	U	0.500		ug/L		05/25/22 10:44	05/26/22 08:57	1
Lead	2.50	U	2.50		ug/L		05/25/22 10:44	05/26/22 08:57	1
Thallium	1.00	U	1.00		ug/L		05/25/22 10:44	05/26/22 08:57	1
Barium	5.00	U	5.00		ug/L		05/25/22 10:44	05/26/22 08:57	1

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	93.65		ug/L		94	80 - 120
Beryllium	50.0	48.67		ug/L		97	80 - 120
Cadmium	50.0	48.55		ug/L		97	80 - 120
Chromium	100	89.35		ug/L		89	80 - 120
Cobalt	50.0	49.48		ug/L		99	80 - 120
Lead	505	478.9		ug/L		95	80 - 120
Thallium	40.0	38.29		ug/L		96	80 - 120
Barium	100	90.93		ug/L		91	80 - 120

Lab Sample ID: 680-214695-10 MS
Matrix: Water
Analysis Batch: 722917

Client Sample ID: AF27208
Prep Type: Total/NA
Prep Batch: 722593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.00	U	100	110.4		ug/L		110	75 - 125
Beryllium	0.500	U	50.0	55.06		ug/L		110	75 - 125
Cadmium	0.500	U	50.0	54.27		ug/L		109	75 - 125
Chromium	5.00	U	100	105.2		ug/L		105	75 - 125
Cobalt	0.500	U	50.0	56.13		ug/L		112	75 - 125
Lead	2.50	U	505	555.1		ug/L		110	75 - 125
Thallium	1.00	U	40.0	44.53		ug/L		111	75 - 125
Barium	95.5		100	201.2		ug/L		106	75 - 125

Lab Sample ID: 680-214695-10 MSD
Matrix: Water
Analysis Batch: 722917

Client Sample ID: AF27208
Prep Type: Total/NA
Prep Batch: 722593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.00	U	100	113.5		ug/L		113	75 - 125	3	20

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

Lab Sample ID: 680-214695-10 MSD
Matrix: Water
Analysis Batch: 722917

Client Sample ID: AF27208
Prep Type: Total/NA
Prep Batch: 722593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.500	U	50.0	57.52		ug/L		115	75 - 125	4	20
Cadmium	0.500	U	50.0	57.05		ug/L		114	75 - 125	5	20
Chromium	5.00	U	100	107.9		ug/L		108	75 - 125	3	20
Cobalt	0.500	U	50.0	57.91		ug/L		116	75 - 125	3	20
Lead	2.50	U	505	576.7		ug/L		114	75 - 125	4	20
Thallium	1.00	U	40.0	46.19		ug/L		115	75 - 125	4	20
Barium	95.5		100	206.9		ug/L		111	75 - 125	3	20

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

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:03	05/11/22 17:35	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:03	05/11/22 17:35	1

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

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	250	260.2		ug/L		104	80 - 120
Selenium	1000	972.2		ug/L		97	80 - 120

Lab Sample ID: 680-214695-17 MS
Matrix: Water
Analysis Batch: 398622

Client Sample ID: AF27215
Prep Type: Total/NA
Prep Batch: 398254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.00	U	250	248.0		ug/L		99	75 - 125
Selenium	5.00	U	1000	927.3		ug/L		93	75 - 125

Lab Sample ID: 680-214695-17 MSD
Matrix: Water
Analysis Batch: 398622

Client Sample ID: AF27215
Prep Type: Total/NA
Prep Batch: 398254

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	2.00	U	250	253.2		ug/L		101	75 - 125	2	20
Selenium	5.00	U	1000	943.4		ug/L		94	75 - 125	2	20

Lab Sample ID: MB 180-398255/1-A
Matrix: Water
Analysis Batch: 398622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 398255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.00	U	2.00		ug/L		05/10/22 12:07	05/11/22 13:52	1
Selenium	5.00	U	5.00		ug/L		05/10/22 12:07	05/11/22 13:52	1

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

Lab Sample ID: LCS 180-398255/2-A
Matrix: Water
Analysis Batch: 398622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 398255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	250	249.0		ug/L		100	80 - 120
Selenium	1000	962.9		ug/L		96	80 - 120

Lab Sample ID: 680-214695-1 MS
Matrix: Water
Analysis Batch: 398622

Client Sample ID: AF27199
Prep Type: Total/NA
Prep Batch: 398255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.00	U	250	248.3		ug/L		99	75 - 125
Selenium	5.00	U	1000	926.2		ug/L		93	75 - 125

Lab Sample ID: 680-214695-1 MSD
Matrix: Water
Analysis Batch: 398622

Client Sample ID: AF27199
Prep Type: Total/NA
Prep Batch: 398255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	2.00	U	250	253.7		ug/L		101	75 - 125	2	20
Selenium	5.00	U	1000	963.5		ug/L		96	75 - 125	4	20

Metals

Prep Batch: 398254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-17	AF27215	Total/NA	Water	3010A	
680-214695-18	AF27216	Total/NA	Water	3010A	
680-214695-19	AF27217	Total/NA	Water	3010A	
680-214695-20	AF27218	Total/NA	Water	3010A	
680-214695-21	AF27219	Total/NA	Water	3010A	
680-214695-22	AF27220	Total/NA	Water	3010A	
MB 180-398254/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214695-17 MS	AF27215	Total/NA	Water	3010A	
680-214695-17 MSD	AF27215	Total/NA	Water	3010A	

Prep Batch: 398255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	3010A	
680-214695-2	AF27200	Total/NA	Water	3010A	
680-214695-3	AF27201	Total/NA	Water	3010A	
680-214695-4	AF27202	Total/NA	Water	3010A	
680-214695-5	AF27203	Total/NA	Water	3010A	
680-214695-6	AF27204	Total/NA	Water	3010A	
680-214695-7	AF27205	Total/NA	Water	3010A	
680-214695-8	AF27206	Total/NA	Water	3010A	
680-214695-9	AF27207	Total/NA	Water	3010A	
680-214695-10	AF27208	Total/NA	Water	3010A	
680-214695-11	AF27209	Total/NA	Water	3010A	
680-214695-12	AF27210	Total/NA	Water	3010A	
680-214695-13	AF27211	Total/NA	Water	3010A	
680-214695-14	AF27212	Total/NA	Water	3010A	
680-214695-15	AF27213	Total/NA	Water	3010A	
680-214695-16	AF27214	Total/NA	Water	3010A	
MB 180-398255/1-A	Method Blank	Total/NA	Water	3010A	
LCS 180-398255/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214695-1 MS	AF27199	Total/NA	Water	3010A	
680-214695-1 MSD	AF27199	Total/NA	Water	3010A	

Analysis Batch: 398622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	EPA 6020B	398255
680-214695-2	AF27200	Total/NA	Water	EPA 6020B	398255
680-214695-3	AF27201	Total/NA	Water	EPA 6020B	398255
680-214695-4	AF27202	Total/NA	Water	EPA 6020B	398255
680-214695-5	AF27203	Total/NA	Water	EPA 6020B	398255
680-214695-6	AF27204	Total/NA	Water	EPA 6020B	398255
680-214695-7	AF27205	Total/NA	Water	EPA 6020B	398255
680-214695-8	AF27206	Total/NA	Water	EPA 6020B	398255
680-214695-9	AF27207	Total/NA	Water	EPA 6020B	398255
680-214695-10	AF27208	Total/NA	Water	EPA 6020B	398255
680-214695-11	AF27209	Total/NA	Water	EPA 6020B	398255
680-214695-12	AF27210	Total/NA	Water	EPA 6020B	398255
680-214695-13	AF27211	Total/NA	Water	EPA 6020B	398255
680-214695-14	AF27212	Total/NA	Water	EPA 6020B	398255
680-214695-15	AF27213	Total/NA	Water	EPA 6020B	398255

Metals (Continued)

Analysis Batch: 398622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-16	AF27214	Total/NA	Water	EPA 6020B	398255
680-214695-17	AF27215	Total/NA	Water	EPA 6020B	398254
680-214695-18	AF27216	Total/NA	Water	EPA 6020B	398254
680-214695-19	AF27217	Total/NA	Water	EPA 6020B	398254
680-214695-20	AF27218	Total/NA	Water	EPA 6020B	398254
680-214695-21	AF27219	Total/NA	Water	EPA 6020B	398254
680-214695-22	AF27220	Total/NA	Water	EPA 6020B	398254
MB 180-398254/1-A	Method Blank	Total/NA	Water	EPA 6020B	398254
MB 180-398255/1-A	Method Blank	Total/NA	Water	EPA 6020B	398255
LCS 180-398254/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	398254
LCS 180-398255/2-A	Lab Control Sample	Total/NA	Water	EPA 6020B	398255
680-214695-1 MS	AF27199	Total/NA	Water	EPA 6020B	398255
680-214695-1 MSD	AF27199	Total/NA	Water	EPA 6020B	398255
680-214695-17 MS	AF27215	Total/NA	Water	EPA 6020B	398254
680-214695-17 MSD	AF27215	Total/NA	Water	EPA 6020B	398254

Prep Batch: 722485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-13	AF27211	Total/NA	Water	3010A	
680-214695-14	AF27212	Total/NA	Water	3010A	
680-214695-16	AF27214	Total/NA	Water	3010A	
680-214695-18	AF27216	Total/NA	Water	3010A	
680-214695-19	AF27217	Total/NA	Water	3010A	
MB 680-722485/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 722492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	3010A	
680-214695-2	AF27200	Total/NA	Water	3010A	
680-214695-3	AF27201	Total/NA	Water	3010A	
680-214695-4	AF27202	Total/NA	Water	3010A	
680-214695-5	AF27203	Total/NA	Water	3010A	
680-214695-6	AF27204	Total/NA	Water	3010A	
680-214695-7	AF27205	Total/NA	Water	3010A	
680-214695-8	AF27206	Total/NA	Water	3010A	
680-214695-9	AF27207	Total/NA	Water	3010A	
680-214695-11	AF27209	Total/NA	Water	3010A	
680-214695-12	AF27210	Total/NA	Water	3010A	
680-214695-17	AF27215	Total/NA	Water	3010A	
680-214695-21	AF27219	Total/NA	Water	3010A	
680-214695-22	AF27220	Total/NA	Water	3010A	
MB 680-722492/1-A	Method Blank	Total/NA	Water	3010A	
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 722593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-10	AF27208	Total/NA	Water	3010A	
680-214695-15	AF27213	Total/NA	Water	3010A	
680-214695-20	AF27218	Total/NA	Water	3010A	
MB 680-722593/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 722593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-214695-10 MS	AF27208	Total/NA	Water	3010A	
680-214695-10 MSD	AF27208	Total/NA	Water	3010A	

Analysis Batch: 722803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-1	AF27199	Total/NA	Water	6020B	722492
680-214695-2	AF27200	Total/NA	Water	6020B	722492
680-214695-3	AF27201	Total/NA	Water	6020B	722492
680-214695-4	AF27202	Total/NA	Water	6020B	722492
680-214695-5	AF27203	Total/NA	Water	6020B	722492
680-214695-6	AF27204	Total/NA	Water	6020B	722492
680-214695-7	AF27205	Total/NA	Water	6020B	722492
680-214695-8	AF27206	Total/NA	Water	6020B	722492
680-214695-9	AF27207	Total/NA	Water	6020B	722492
680-214695-11	AF27209	Total/NA	Water	6020B	722492
680-214695-12	AF27210	Total/NA	Water	6020B	722492
680-214695-13	AF27211	Total/NA	Water	6020B	722485
680-214695-14	AF27212	Total/NA	Water	6020B	722485
680-214695-16	AF27214	Total/NA	Water	6020B	722485
680-214695-17	AF27215	Total/NA	Water	6020B	722492
680-214695-18	AF27216	Total/NA	Water	6020B	722485
680-214695-19	AF27217	Total/NA	Water	6020B	722485
680-214695-21	AF27219	Total/NA	Water	6020B	722492
680-214695-22	AF27220	Total/NA	Water	6020B	722492
MB 680-722485/1-A	Method Blank	Total/NA	Water	6020B	722485
MB 680-722492/1-A	Method Blank	Total/NA	Water	6020B	722492
LCS 680-722485/2-A	Lab Control Sample	Total/NA	Water	6020B	722485
LCS 680-722492/2-A	Lab Control Sample	Total/NA	Water	6020B	722492

Analysis Batch: 722917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-214695-10	AF27208	Total/NA	Water	6020B	722593
680-214695-15	AF27213	Total/NA	Water	6020B	722593
680-214695-20	AF27218	Total/NA	Water	6020B	722593
MB 680-722593/1-A	Method Blank	Total/NA	Water	6020B	722593
LCS 680-722593/2-A	Lab Control Sample	Total/NA	Water	6020B	722593
680-214695-10 MS	AF27208	Total/NA	Water	6020B	722593
680-214695-10 MSD	AF27208	Total/NA	Water	6020B	722593

Client Sample ID: AF27199

Lab Sample ID: 680-214695-1

Date Collected: 03/01/22 11:49

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:21	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 14:06	RSK	TAL PIT

Client Sample ID: AF27200

Lab Sample ID: 680-214695-2

Date Collected: 03/01/22 11:54

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:24	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 14:55	RSK	TAL PIT

Client Sample ID: AF27201

Lab Sample ID: 680-214695-3

Date Collected: 03/01/22 13:01

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:26	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 14:58	RSK	TAL PIT

Client Sample ID: AF27202

Lab Sample ID: 680-214695-4

Date Collected: 02/28/22 13:02

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:00	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 15:12	RSK	TAL PIT

Client Sample ID: AF27203

Lab Sample ID: 680-214695-5

Date Collected: 02/28/22 13:07

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:03	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 15:33	RSK	TAL PIT

Lab Chronicle

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

Job ID: 680-214695-1

Client Sample ID: AF27204
Date Collected: 02/28/22 12:11
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:06	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 15:47	RSK	TAL PIT

Client Sample ID: AF27205
Date Collected: 02/28/22 15:21
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:13	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:01	RSK	TAL PIT

Client Sample ID: AF27206
Date Collected: 02/28/22 14:02
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:16	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:15	RSK	TAL PIT

Client Sample ID: AF27207
Date Collected: 02/28/22 10:29
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 22:18	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:19	RSK	TAL PIT

Client Sample ID: AF27208
Date Collected: 03/01/22 14:37
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:02	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:33	RSK	TAL PIT

Client Sample ID: AF27209
Date Collected: 02/24/22 13:37
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:35	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:36	RSK	TAL PIT

Client Sample ID: AF27210
Date Collected: 02/24/22 13:42
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:42	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 16:50	RSK	TAL PIT

Client Sample ID: AF27211
Date Collected: 02/23/22 12:18
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:04	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:04	RSK	TAL PIT

Client Sample ID: AF27212
Date Collected: 02/22/22 15:14
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:53	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:14	RSK	TAL PIT

Client Sample ID: AF27213
Date Collected: 03/07/22 10:37
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:38	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:28	RSK	TAL PIT

Client Sample ID: AF27214
Date Collected: 02/22/22 12:04
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:56	BJB	TAL SAV
Total/NA	Prep	3010A			398255	05/10/22 12:07	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:32	RSK	TAL PIT

Client Sample ID: AF27215
Date Collected: 02/23/22 14:00
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:30	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 17:42	RSK	TAL PIT

Client Sample ID: AF27216
Date Collected: 02/22/22 13:40
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 20:59	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:49	RSK	TAL PIT

Client Sample ID: AF27217
Date Collected: 02/22/22 10:18
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722485	05/24/22 16:11	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:01	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:52	RSK	TAL PIT

Client Sample ID: AF27218
Date Collected: 03/01/22 15:55
Date Received: 04/28/22 10:30

Lab Sample ID: 680-214695-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722593	05/25/22 10:44	JE	TAL SAV
Total/NA	Analysis	6020B		1	722917	05/26/22 09:15	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:56	RSK	TAL PIT

Client Sample ID: AF27219

Lab Sample ID: 680-214695-21

Date Collected: 02/24/22 14:59

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:45	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 18:59	RSK	TAL PIT

Client Sample ID: AF27220

Lab Sample ID: 680-214695-22

Date Collected: 02/24/22 15:04

Matrix: Water

Date Received: 04/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			722492	05/24/22 17:36	JE	TAL SAV
Total/NA	Analysis	6020B		1	722803	05/25/22 21:48	BJB	TAL SAV
Total/NA	Prep	3010A			398254	05/10/22 12:03	NAF	TAL PIT
Total/NA	Analysis	EPA 6020B		1	398622	05/11/22 19:03	RSK	TAL PIT

Laboratory References:

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

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

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 5 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	As, Be, Cd, Co Cr, Tl, Se, Sb, Pb			
AF27199	WAP-12	3/1/22	1149	BRT BSB	1	P	G	GW	2	METHOD 6020	X			
200	12 DUP	3/1/22	1154							SEE SHEET FOR RLS.				
01	13	3/1/22	1301							SEND TO ST. LOUIS FOR S				
02	14	2/28/22	1302											
03	14 DUP	2/28/22	1307											
04	14A		1211											
05	14B		1521											
06	14C		1402											
07	15		1029											
08	16	3/1/22	1437											

680-214695 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown		4/27/22	1500		TM	4.28.22	1030
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 18.9/18.3 Initial: ___
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

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

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ PCB
☐ GOFER

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 5 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	As, Be, Cd, Co Cr, Pb, Se, Tl			
AF27209	WAP - 17	2/24/22	1337	BRT BSB	1	P	G	GW	2	METHOD 6020	X			
10	17 DUP	2/24/22	1342							SEE SHEET FOR RLS				
11	18	2/23/22	1218							SEND TO ST LOUIS FOR Se TO MEET RL.				
12	19	2/22/22	1514											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown		4/27/22	1500	[signature]	TA	42822	1030
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 18.9/18.3 Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb,Hg)
☐ TX
☐ COPER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 5 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	As, Be, Cd, Co, Cr, Tl, Se, Sb	Pb	Ba	
AF27213	WAP-20	3/7/22	1037	~~BRT~~ BSB	1	P	G	GW	2	METHOD 6020	X	X		
14	21	2/22/22	1204							SEE SHEET FOR RLS.				
15	22	2/23/22	1400							SEND TO ST. LOUIS FOR Se.				
16	23	2/22/22	1340											
17	24	2/22/22	1018										X	
18	25	3/1/22	1555										X	
19	26	2/24/22	1459											
20	26 DUP	2/24/22	1504											
~~21~~														

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown		4/27/22	1500	[signature]	TA	4-28-22	1030
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): 18.9/18.3 Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier Jerry A	Carrier Tracking No(s):	COC No: 180-462144 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program		Job #: 680-214695-1
Address: 5102 LaRoche Avenue ,	Due Date Requested: 5/5/2022			
City: Savannah	TAT Requested (days):			
State Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 125915/JM02 08 G01 1/36500	Project #: 68008190			
Site:	SSOW#:			

Analysis Requested

Preservation Codes.
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A (MOD) 7 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
AF27199 (680-214695-1)	3/1/22	11 49 Eastern		Water			X	1	
AF27200 (680-214695-2)	3/1/22	11 54 Eastern		Water			X	1	
AF27201 (680-214695-3)	3/1/22	13 01 Eastern		Water			X	1	
AF27202 (680-214695-4)	2/28/22	13 02 Eastern		Water			X	1	
AF27203 (680-214695-5)	2/28/22	13.07 Eastern		Water			X	1	
AF27204 (680-214695-6)	2/28/22	12 11 Eastern		Water			X	1	
AF27205 (680-214695-7)	2/28/22	15 21 Eastern		Water			X	1	
AF27206 (680-214695-8)	2/28/22	14 02 Eastern		Water			X	1	
AF27207 (680-214695-9)	2/28/22	10:29 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time.	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 5-23-22 1700	Company: eetaRA	Received by: [signature]	Date/Time: 5/24 10:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks.	16.V/15.8	

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s).	COC No: 180-462144.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry Lanier@et.eurofinsus com	State of Origin. South Carolina	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program		Job #: 680-214695-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 5/5/2022			
City: Savannah	TAT Requested (days):			
State Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A (MOD) 7 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
AF27208 (680-214695-10)	3/1/22	14 37 Eastern		Water			X	1	
AF27209 (680-214695-11)	2/24/22	13.37 Eastern		Water			X	1	
AF27210 (680-214695-12)	2/24/22	13 42 Eastern		Water			X	1	
AF27211 (680-214695-13)	2/23/22	12.18 Eastern		Water			X	1	
AF27212 (680-214695-14)	2/22/22	15 14 Eastern		Water			X	1	
AF27213 (680-214695-15)	3/7/22	10 37 Eastern		Water			X	1	
AF27214 (680-214695-16)	2/22/22	12.04 Eastern		Water			X	1	
AF27215 (680-214695-17)	2/23/22	14 00 Eastern		Water			X	1	
AF27216 (680-214695-18)	2/22/22	13.40 Eastern		Water			X	1	

Note. Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date.	Time	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 5-23-22 1700	Company: eetaPH	Received by: [signature]	Date/Time: 5/23 10:3	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 16.4 / 15.8		

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 180-462144 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry.Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida, State - South Carolina, State Program		Job #: 680-214695-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 5/5/2022			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 125915/JM02.08 G01 1/36500	Project #: 68008190			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A (MOD) 7 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AF27217 (680-214695-19)	2/22/22	10:18 Eastern		Water			X	1	
AF27218 (680-214695-20)	3/1/22	15 55 Eastern		Water			X	1	
AF27219 (680-214695-21)	2/24/22	14 59 Eastern		Water			X	1	
AF27220 (680-214695-22)	2/24/22	15 04 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Pittsburgh.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

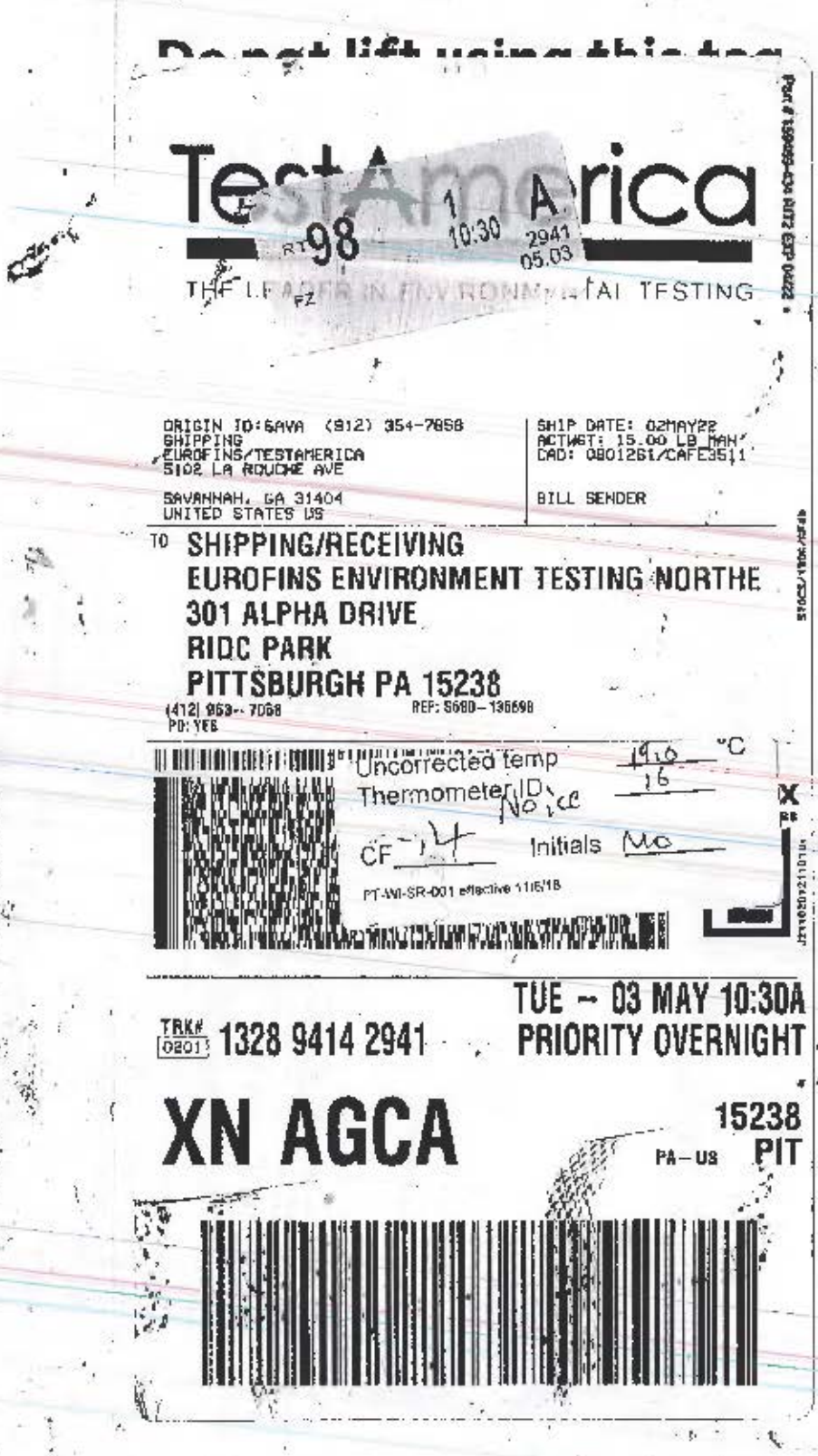
	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	5-23-22 1700			5/24 10:30	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 16.4 / 15.8

Ver: 06/08/2021

5/27/2022 (Rev. 1)

Page 48 of 56



Do not lift using this tag

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

680-214695 Waybill

ORIGIN ID:SAVA (912) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROCHE AVE

SAVANNAH, GA 31404
UNITED STATES US

SHIP DATE: 02MAY22
ACTWGT: 15.00 LB MAN
CAD: 0801261/CAFE3511

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058 REF: 5680-136698
PO: YES

Uncorrected temp 19.6 °C
Thermometer ID No ice 16
CF -1.4 Initials MC

PT-MI-SR-001 effective 11/5/18

TUE - 03 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 1328 9414 2941

XN AGCA

15238
PA-US PIT

Page 49 of 56

5/27/2022 (Rev. 1)

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-692536.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry.Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast		Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program ...		Job #: 680-214692-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 5/5/2022	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: 125915/JM02.08.G01.1/36500	Project #: 68008190			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A (MOD) 2 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AF27196 (680-214692-10)	2/21/22	14:48 Eastern		Water			X	1	
AF27197 (680-214692-11)	2/21/22	14:53 Eastern		Water			X	1	
AF27198 (680-214692-12)	2/17/22	12:23 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/2 1000	Company	Received by: DW	Date/Time: 5-3-22 900	Company: EETALH
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

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

Chain of Custody Record

eurofins | Environment Testing America

680-214695 Chain of Custody

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	36.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry.Lanier@et.eurofinsus.c	3
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See NELAP - Florida; State -	680-214695-1
Address: 301 Alpha Drive. RIDC Park,	Due Date Requested: 5/6/2022	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days):		A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: PA, 15238			
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:		
Email:	WO #:		Other:
Project Name: 125915/JM02.08.G01.1/38500	Project #: 68C08190		
Site:	SSOW#:		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A 2 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AF27199 (680-214695-1)	3/1/22	11:49 Eastern		Water			X	1	
AF27200 (680-214695-2)	3/1/22	11:54 Eastern		Water			X	1	
AF27201 (680-214695-3)	3/1/22	13:01 Eastern		Water			X	1	
AF27202 (680-214695-4)	2/28/22	13:02 Eastern		Water			X	1	
AF27203 (680-214695-5)	2/28/22	13:07 Eastern		Water			X	1	
AF27204 (680-214695-6)	2/28/22	12:11 Eastern		Water			X	1	
AF27205 (680-214695-7)	2/28/22	15:21 Eastern		Water			X	1	
AF27206 (680-214695-8)	2/28/22	14:02 Eastern		Water			X	1	
AF27207 (680-214695-9)	2/28/22	10:29 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification Unconfirmed		*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 5/2 1600	Company	Received by: DW	Date/Time: 5.3.22 900	Company EETAPIT		
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-692535.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry.Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 2 of 3
Company: Eurofins Environment Testing Northeast		Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program ...		Job #: 680-214695-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 5/5/2022	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: 1259-15/JM02.08 GC1.1/38500	Project #: 68006190			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A 2 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AF27208 (680-214695-10)	3/1/22	14:37 Eastern		Water			X	1	
AF27209 (680-214695-11)	2/24/22	13:37 Eastern		Water			X	1	
AF27210 (680-214695-12)	2/24/22	13:42 Eastern		Water			X	1	
AF27211 (680-214695-13)	2/23/22	12:18 Eastern		Water			X	1	
AF27212 (680-214695-14)	2/22/22	15:14 Eastern		Water			X	1	
AF27213 (680-214695-15)	3/7/22	10:37 Eastern		Water			X	1	
AF27214 (680-214695-16)	2/22/22	12:04 Eastern		Water			X	1	
AF27215 (680-214695-17)	2/23/22	14:00 Eastern		Water			X	1	
AF27216 (680-214695-18)	2/22/22	13:40 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/2 0900	Company	Received by:	Date/Time: 5-3-22 900	Company: EOTAH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lanier, Jerry A	Carrier Tracking No(s):	COC No: 680-692536.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jerry.Lanier@et.eurofinsus.com	State of Origin: South Carolina	Page: Page 3 of 3
Company: Eurofins Environment Testing Northeast.		Accreditations Required (See note): NELAP - Florida; State - South Carolina; State Program ...		Job #: 680-214695-1
Address: 301 Alpha Drive, RIDC Park.	Due Date Requested: 5/6/2022			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: 125915/JM02.08.G01.1/36500	Project #: 68008190			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wastewater, Sewage, Ownerstated, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A 2 ICPMS Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
AF27217 (680-214695-19)	2/22/22	10:18 Eastern		Water			X	1	
AF27218 (680-214695-20)	3/1/22	15:55 Eastern		Water			X	1	
AF27219 (680-214695-21)	2/24/22	14:59 Eastern		Water			X	1	
AF27220 (680-214695-22)	2/24/22	15:04 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank: 1 | Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	5/2 1600		DW	5-3-20	EBTAPIN
				900	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-214695-1

Login Number: 214695
List Number: 1
Creator: Sims, Robert D

List Source: Eurofins Savannah

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	

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-214695-1

Login Number: 214695
List Number: 2
Creator: Watson, Debbie

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

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

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-214695-1
Project/Site: 125915/JM02.08.G01.1/36500

Laboratory: Eurofins Savannah

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

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

Laboratory: Eurofins Pittsburgh

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

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

Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

March 15, 2022

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

RE: Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Dear Sherri Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Tyriek Hooks

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

Enclosures

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

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

CERTIFICATIONS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

SAMPLE ANALYTE COUNT

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92591495001	AF27204	EPA 7470A	DBB1	1	PASI-A
92591495002	AF27206	EPA 7470A	DBB1	1	PASI-A
92591495003	AF27205	EPA 7470A	DBB1	1	PASI-A
92591495004	AF27199	EPA 7470A	DBB1	1	PASI-A
92591495005	AF27200	EPA 7470A	DBB1	1	PASI-A
92591495006	AF27201	EPA 7470A	DBB1	1	PASI-A
92591495007	AF27208	EPA 7470A	DBB1	1	PASI-A
92591495008	AF27218	EPA 7470A	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27204 **Lab ID: 92591495001** Collected: 02/28/22 12:11 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	**1.2**	ug/L	1.0	1	03/11/22 16:00	03/15/22 09:44	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27206 **Lab ID: 92591495002** Collected: 02/28/22 14:02 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:46	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27205 **Lab ID: 92591495003** Collected: 02/28/22 15:21 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:48	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27199 **Lab ID: 92591495004** Collected: 03/01/22 11:49 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:50	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27200 **Lab ID: 92591495005** Collected: 03/01/22 11:54 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:52	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27201 **Lab ID: 92591495006** Collected: 03/01/22 13:01 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:54	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27208 **Lab ID: 92591495007** Collected: 03/01/22 14:37 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:56	7439-97-6	

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816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

ANALYTICAL RESULTS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Sample: AF27218 **Lab ID: 92591495008** Collected: 03/01/22 15:55 Received: 03/04/22 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/11/22 16:00	03/15/22 09:59	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

QC Batch: 683593 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92591495001, 92591495002, 92591495003, 92591495004, 92591495005, 92591495006, 92591495007, 92591495008

METHOD BLANK: 3575628 — Matrix: Water
Associated Lab Samples: 92591495001, 92591495002, 92591495003, 92591495004, 92591495005, 92591495006, 92591495007, 92591495008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/15/22 09:40	

LABORATORY CONTROL SAMPLE: 3575629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3575630 3575631

Parameter	Units	92591283003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.2	98	87	75-125	11	

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

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QUALIFIERS

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 121567/JM02.09.G01/36500
Pace Project No.: 92591495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92591495001	**AF27204**	EPA 7470A	683593	EPA 7470A	684407
92591495002	**AF27206**	EPA 7470A	683593	EPA 7470A	684407
92591495003	**AF27205**	EPA 7470A	683593	EPA 7470A	684407
92591495004	**AF27199**	EPA 7470A	683593	EPA 7470A	684407
92591495005	**AF27200**	EPA 7470A	683593	EPA 7470A	684407
92591495006	**AF27201**	EPA 7470A	683593	EPA 7470A	684407
92591495007	**AF27208**	EPA 7470A	683593	EPA 7470A	684407
92591495008	**AF27218**	EPA 7470A	683593	EPA 7470A	684407

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

Laboratory receiving samples:
Asheville [X] Eden [ ] Greenwood [ ] Huntersville [ ] Raleigh [ ] Mechanicsville [ ] Atlanta [ ] Kernersville [ ]

Sample Condition Upon Receipt

Client Name: Santee Cooper

Project #: WO# : 92591495

92591495

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Custody Seal Present? [ ] Yes [X] No Seals Intact? [ ] Yes [X] No

Date/Initials Person Examining Contents: 3-4-22 AR

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other

Biological Tissue Frozen? [ ] Yes [ ] No [X] N/A

Thermometer: [X] IR Gun ID: NA [ ] Wet [ ] Blue [X] None Type of Ice:

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

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

Cooler Temp Corrected (°C): NA

USDA Regulated Soil ([X] N/A, water sample)

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

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [X] No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? [ ] Yes [ ] No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project # WO# : 92591495

PM: TIH Due Date: 03/18/22

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9R-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Contract Lab Info: PACE-ASHE Contract Lab Due Date (Lab Only): 3 / 15 / 22 Send report to lcwillia@santeecooper.com & slbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type (Glass G/Plastic-P)	Grab (G) or Composite (C)	Matrix (see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Hg			
AF27204	WAP - 14A	2/28/22	1211	BRY/BSB	1	P	G	GW	2	7470 ee1	+			
206	14C		1402							ee2				
205	14B		1521							ee3				
199	12	3/1/22	1149							ee4				
200	12 DUP		1154							ee5				
201	13		1301							ee6				
208	16		1437							ee7				
218	WAP-25		1555							ee8				

Relinquished by	Employee	Date	Time	Received by	Employee #	Date	Time
SJBrown		3/3/22	1500	A. Rucker	PACE/AVL	3-4-22	1045
Relinquished by	Employee	Date	Time	Received by	Employee #	Date	Time
Relinquished by	Employee	Date	Time	Received by	Employee #	Date	Time

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

METALS (all)		
Ag	Cu	Sb
Al	Fe	Se
As	K	Sn
B	Li	Sr
Ba	Mg	Tl
Be	Mn	Tl
Ca	Mo	V
Cd	Na	Zn
Co	Ni	Hg
Cr	Pb	CrVI

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

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4=HCl 5=$Na_2S_2O_3$ 6=Other (Specify)

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

April 01, 2022

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

Re: ABS Lab Analytical
Work Order: 572251

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 04, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

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: 572251 GEL Work Order: 572251

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

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

Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27207
Sample ID: 572251001
Matrix: Ground Water
Collect Date: 28-FEB-22 10:29
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.88	+/-1.33	1.64	3.00	pCi/L			JXC9	03/31/22	1037	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.65	+/-1.46			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.77	+/-0.605	0.356	1.00	pCi/L			LXP1	03/23/22	0850	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27202
Sample ID: 572251002
Matrix: Ground Water
Collect Date: 28-FEB-22 13:02
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.30	+/-1.28	1.87	3.00	pCi/L			JXC9	03/31/22	1037	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.64	+/-1.30			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.343	+/-0.224	0.274	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27203
Sample ID: 572251003
Matrix: Ground Water
Collect Date: 28-FEB-22 13:07
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.63	+/-1.18	1.63	3.00	pCi/L			JXC9	03/31/22	1037	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.73	+/-1.23			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.10	+/-0.359	0.265	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27204
Sample ID: 572251004
Matrix: Ground Water
Collect Date: 28-FEB-22 12:11
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.44	+/-1.61	2.70	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.70	+/-1.66			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.25	+/-0.383	0.223	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.2	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27206
Sample ID: 572251005
Matrix: Ground Water
Collect Date: 28-FEB-22 14:02
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.95	+/-1.38	1.96	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.83	+/-1.45			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.88	+/-0.437	0.197	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27205
Sample ID: 572251006
Matrix: Ground Water
Collect Date: 28-FEB-22 15:21
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.984	+/-1.51	2.60	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.26	+/-1.69			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		5.28	+/-0.746	0.412	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27199
Sample ID: 572251007
Matrix: Ground Water
Collect Date: 01-MAR-22 11:49
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.56	+/-1.39	1.91	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.18	+/-1.43			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.620	+/-0.322	0.406	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.6	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27200
Sample ID: 572251008
Matrix: Ground Water
Collect Date: 01-MAR-22 11:54
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.38	+/-1.76	2.54	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.56	+/-1.81			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.17	+/-0.405	0.431	1.00	pCi/L			LXP1	03/23/22	0922	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.4	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27201
Sample ID: 572251009
Matrix: Ground Water
Collect Date: 01-MAR-22 13:01
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.81	+/-1.54	2.30	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.12	+/-1.60			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.31	+/-0.411	0.245	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			64.2	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27208
Sample ID: 572251010
Matrix: Ground Water
Collect Date: 01-MAR-22 14:37
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.12	+/-1.63	2.37	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.18	+/-1.67			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.06	+/-0.370	0.343	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			57.7	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27218
Sample ID: 572251011
Matrix: Ground Water
Collect Date: 01-MAR-22 15:55
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.73	+/-1.68	2.78	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.23	+/-1.70			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.494	+/-0.261	0.278	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			53.9	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27226
Sample ID: 572251012
Matrix: Ground Water
Collect Date: 02-MAR-22 11:20
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.46	+/-1.12	1.55	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.81	+/-1.14			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.355	+/-0.211	0.243	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80.8	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27227
Sample ID: 572251013
Matrix: Ground Water
Collect Date: 02-MAR-22 11:25
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.10	+/-1.08	1.51	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.59	+/-1.12			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.496	+/-0.264	0.304	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27225
Sample ID: 572251014
Matrix: Ground Water
Collect Date: 02-MAR-22 12:31
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.75	+/-1.89	2.82	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.67	+/-1.92			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.919	+/-0.375	0.437	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			60.8	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: April 1, 2022

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

Client Sample ID: AF27224
Sample ID: 572251015
Matrix: Ground Water
Collect Date: 02-MAR-22 13:54
Receive Date: 04-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.79	+/-1.29	2.01	3.00	pCi/L			JXC9	03/31/22	1038	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.13	+/-1.36			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.35	+/-0.416	0.352	1.00	pCi/L			LXP1	03/23/22	0954	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			62.1	(15%-125%)

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

Column headers are defined as follows:

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

QC Summary

Report Date: April 1, 2022

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **572251**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2238666										
QC1205036858 572251001 DUP										
Radium-228		3.88		3.94	pCi/L	1.46		(0% - 100%)	JXC9	03/31/22 10:37
	Uncertainty	+/-1.33		+/-1.30						
QC1205036859 LCS										
Radium-228	46.6			40.0	pCi/L		86	(75%-125%)		03/31/22 10:37
	Uncertainty			+/-3.81						
QC1205036857 MB										
Radium-228				2.03	pCi/L					03/31/22 10:37
	Uncertainty			+/-1.27						
Rad Ra-226										
Batch 2238657										
QC1205036840 572251001 DUP										
Radium-226		2.77		2.70	pCi/L	2.27		(0%-20%)	LXP1	03/23/22 10:26
	Uncertainty	+/-0.605		+/-0.521						
QC1205036842 LCS										
Radium-226	26.4			23.2	pCi/L		87.8	(75%-125%)		03/23/22 10:26
	Uncertainty			+/-1.56						
QC1205036839 MB										
Radium-226			U	0.412	pCi/L					03/23/22 10:26
	Uncertainty			+/-0.306						
QC1205036841 572251001 MS										
Radium-226	133	2.77		104	pCi/L		76.6	(75%-125%)		03/23/22 10:26
	Uncertainty	+/-0.605		+/-7.59						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: 572251

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

H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 572251

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2238666

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

GEL Sample ID#	Client Sample Identification
572251001	AF27207
572251002	AF27202
572251003	AF27203
572251004	AF27204
572251005	AF27206
572251006	AF27205
572251007	AF27199
572251008	AF27200
572251009	AF27201
572251010	AF27208
572251011	AF27218
572251012	AF27226
572251013	AF27227
572251014	AF27225
572251015	AF27224
1205036857	Method Blank (MB)
1205036858	572251001(AF27207) Sample Duplicate (DUP)
1205036859	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Samples were non-homogenous matrix. Samples contain sedimentation.

Quality Control (QC) Information

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

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

Technical Information

Recounts
Samples were re-eluted and recounted to verify sample results. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2238657

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

GEL Sample ID#	Client Sample Identification
572251001	AF27207
572251002	AF27202
572251003	AF27203
572251004	AF27204
572251005	AF27206
572251006	AF27205
572251007	AF27199
572251008	AF27200
572251009	AF27201
572251010	AF27208
572251011	AF27218
572251012	AF27226
572251013	AF27227
572251014	AF27225
572251015	AF27224
1205036839	Method Blank (MB)
1205036840	572251001(AF27207) Sample Duplicate (DUP)
1205036841	572251001(AF27207) Matrix Spike (MS)
1205036842	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Samples were non-homogenous matrix.

Technical Information

Recounts
Samples 1205036839 (MB), 1205036842 (LCS) and 572251006 (AF27205) were degassed and recounted to verify sample results. The recount results are similar to the original results. Original results are reported

Miscellaneous Information

Additional Comments
The matrix spike, 1205036841 (AF27207MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 4 / 4 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

572251

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes (No)

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC.	
AF27207	WAP-15	2/28/22	1029	ERT/BSB	2	P	G	GW	2		X	X	X	
202	WAP-14		1302											
203	14 DUP		1307											
204	WAP-14A		1211											
206	14B		1402											
205	14C		1521											
AF27199	WAP-12	3/1/22	1149											
200	12 DUP		1154											
201	13		1301											
208	16		1437											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	3/4/22	0945	[signature]	GEL	3/4/22	0945
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	GEL	3-4-22	1447	[signature]	GEL	3-4-22	1447
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ METALS (all)

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

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ % Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb,Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 4 / 4 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes (No)

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC	
AF27218	WAP-25	3/1/22	1555	BRT/BSB	2	P	G	GW	2		X	X	X	
226	WLF-A1-4	3/2/22	1120											
227	-4 DUP		1125											
225	-3		1231											
224	-2		1354											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	3/4/22	0945	[signature]	GEL	3/4/22	0945
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	661	3.4.22	1447	[signature]	GEL	3-4-22	1447
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As Cd Cr Ni Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

JAR

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	SDG/AR/COC/Work Order: 572251
Received By: DC	Date Received: 3-4-22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other Cooler#1=5° Cooler#3=20° Cooler#2=5° Cooler#4=19°

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?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR6-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#: Af 20275 nopH
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials GB Date 3/7/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 01 April 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

April 04, 2022

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

Re: ABS Lab Analytical
Work Order: 572527

Dear Ms. Gilmetti:

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

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Nina Gampe for
Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures

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

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 572527 GEL Work Order: 572527

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by _____

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

Certificate of Analysis

Report Date: April 4, 2022

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

Client Sample ID: AF27228
Sample ID: 572527001
Matrix: Ground Water
Collect Date: 03-MAR-22 11:48
Receive Date: 08-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.668	+/-1.00	1.75	3.00	pCi/L			JXC9	03/31/22	1039	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.45	+/-1.07			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.779	+/-0.371	0.466	1.00	pCi/L			LXP1	03/23/22	1026	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			60.7	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: April 4, 2022

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

Client Sample ID: AF27223
Sample ID: 572527002
Matrix: Ground Water
Collect Date: 03-MAR-22 13:06
Receive Date: 08-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.66	+/-1.18	1.63	3.00	pCi/L			JXC9	03/31/22	1039	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.47	+/-1.22			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.805	+/-0.303	0.212	1.00	pCi/L			LXP1	03/23/22	1026	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			80	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: April 4, 2022

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

Client Sample ID: AF27213
Sample ID: 572527003
Matrix: Ground Water
Collect Date: 07-MAR-22 10:37
Receive Date: 08-MAR-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		5.83	+/-1.66	1.98	3.00	pCi/L			JXC9	03/31/22	1039	2238666	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		8.15	+/-1.74			pCi/L			NXL1	03/31/22	1508	2238665	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.32	+/-0.523	0.281	1.00	pCi/L			LXP1	03/23/22	1026	2238657	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			69.9	(15%-125%)

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

Column headers are defined as follows:

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

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

QC Summary

Report Date: April 4, 2022

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **572527**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2238666										
QC1205036858 572251001 DUP										
Radium-228		3.88		3.94	pCi/L	1.46		(0% - 100%)	JXC9	03/31/22 10:37
	Uncertainty	+/-1.33		+/-1.30						
QC1205036859 LCS										
Radium-228	46.6			40.0	pCi/L		86	(75%-125%)		03/31/22 10:37
	Uncertainty			+/-3.81						
QC1205036857 MB										
Radium-228				2.03	pCi/L					03/31/22 10:37
	Uncertainty			+/-1.27						
Rad Ra-226										
Batch 2238657										
QC1205036840 572251001 DUP										
Radium-226		2.77		2.70	pCi/L	2.27		(0%-20%)	LXP1	03/23/22 10:26
	Uncertainty	+/-0.605		+/-0.521						
QC1205036842 LCS										
Radium-226	26.4			23.2	pCi/L		87.8	(75%-125%)		03/23/22 10:26
	Uncertainty			+/-1.56						
QC1205036839 MB										
Radium-226			U	0.412	pCi/L					03/23/22 10:26
	Uncertainty			+/-0.306						
QC1205036841 572251001 MS										
Radium-226	133	2.77		104	pCi/L		76.6	(75%-125%)		03/23/22 10:26
	Uncertainty	+/-0.605		+/-7.59						

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: 572527

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

H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2238666

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

GEL Sample ID#	Client Sample Identification
572527001	AF27228
572527002	AF27223
572527003	AF27213
1205036857	Method Blank (MB)
1205036858	572251001(AF27207) Sample Duplicate (DUP)
1205036859	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Samples were non-homogenous matrix. Samples contain sedimentation.

Quality Control (QC) Information

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

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

Technical Information

Recounts
Samples were re-eluted and recounted to verify sample results. The recounts are reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2238657

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

GEL Sample ID#	Client Sample Identification
572527001	AF27228
572527002	AF27223
572527003	AF27213
1205036839	Method Blank (MB)
1205036840	572251001(AF27207) Sample Duplicate (DUP)
1205036841	572251001(AF27207) Matrix Spike (MS)
1205036842	Laboratory Control Sample (LCS)

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

Data Summary:

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

Preparation Information

Homogenous Matrix
Samples were non-homogenous matrix.

Technical Information

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

Miscellaneous Information

Additional Comments
The matrix spike, 1205036841 (AF27207MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 4 / 5 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

572527

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226	RAD 228	TOTAL RAD CALC	
AF27228	WLF-A1-5	3/3/22	1148	BRT/BSB	2	P	G	GW	2		X	X	X	
223	WLF-A1-1	1	1306	|	|	|	|	|	|		|	|	|	
213	WAP-20	3/7/22	1037	|	|	|	|	|	|		|	|	|	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	3/8/22	0931	[signature]	GEL	3/8/22	0931
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	GEL	3/8/22	1706	[signature]	GEL	3/8/22	1706
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IET
☐ Dissolved Gases
☐ Used Oil
☐ Halogens
☐ Metals in oil (As,Cd,Cr,Ni,Pb,Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SCAP	**SDG/AR/COC/Work Order:** 572527
Received By: STACY BOONE	**Date Received:** MARCH 9, 2022
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			✓	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 7°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #:_____ Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

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

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 04 April 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Pace Analytical Services, LLC
816 Durst Avenue East
Greenwood, SC 29649
(864)229-4413

March 22, 2022

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

RE: Project: 121567
Pace Project No.: 92592709

Dear Sherri Brown:

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

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

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

Sincerely,

Tyriek Hooks

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

Enclosures

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

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CERTIFICATIONS

Project: 121567
Pace Project No.: 92592709

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 121567
Pace Project No.: 92592709

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

PASI-A = Pace Analytical Services - Asheville

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF2713 **Lab ID: 92592709001** Collected: 03/07/22 10:37 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:49	7439-97-6	M1

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27226 **Lab ID: 92592709002** Collected: 03/02/22 11:20 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:55	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27227 **Lab ID: 92592709003** Collected: 03/02/22 11:25 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:57	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27225 **Lab ID: 92592709004** Collected: 03/02/22 12:31 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 10:59	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27224 **Lab ID: 92592709005** Collected: 03/02/22 13:54 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 12:06	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27228 **Lab ID: 92592709006** Collected: 03/03/22 11:48 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 11:08	7439-97-6	

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ANALYTICAL RESULTS

Project: 121567
Pace Project No.: 92592709

Sample: AF27223 **Lab ID: 92592709007** Collected: 03/03/22 13:06 Received: 03/10/22 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville							
Mercury	ND	ug/L	0.20	1	03/16/22 13:10	03/22/22 11:10	7439-97-6	

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QUALITY CONTROL DATA

Project: 121567
Pace Project No.: 92592709

QC Batch: 684337 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92592709001, 92592709002, 92592709003, 92592709004, 92592709005, 92592709006, 92592709007

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

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

LABORATORY CONTROL SAMPLE: 3579216

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3579217 3579218

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

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 121567
Pace Project No.: 92592709

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 121567
Pace Project No.: 92592709

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

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

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Surface Cooper

Project #: WO# : 92592709

92592709

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: 4/3/22

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 93T021 Type of Ice: ☐ Wet ☐ Blue ☑ None

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

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

Cooler Temp Corrected (°C): NA

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (Water) DOC, LLHg

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

Project # **WO# : 92592709**

PM: TIH Due Date: 03/24/22

CLIENT: 97-SanteeCoo

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation Vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Contract Lab Info: PACE-ASHE Contract Lab Due Date (Lab Only): 3 / 18 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC (Yes) No

92592709

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/Comp (G/C)	Matrix (see below)	Preservative (see below)	Comments: Method / Reporting limit / Misc. sample info / Any other notes	Hg			
AF27213	WAP-20	3/7/22	1037	BRT/BSB	1	P	G	GW	2	7470 001	X			
AF27226	WLF-A1-4	3/2/22	1120							002				
27	WLF-A1-4 DUP		1125							003				
25	WLF-A1-3		1231							004				
24	WLF-A1-2		1354							005				
28	WLF-A1-5	3/3/22	1148							006				
23	WLF-A1-1		1306							007				

Relinquished by	Employee	Date	Time	Received by	Employee	Date	Time
SJ Brown	25594	3/9/22	1200	[signature]		3/10/22	10:30
Relinquished by	Employee	Date	Time	Received by	Employee	Date	Time
Relinquished by	Employee	Date	Time	Received by	Employee	Date	Time

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

METALS (all)		
Ag	Cb	Sb
Al	Fe	Sc
As	K	Sn
Ca	Li	Sr
Ba	Mg	Ti
Be	Mn	Tl
Cr	Mo	V
Cd	Na	Zn
Co	Ni	Hg
Cr	Pb	CrVI

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

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

January 10, 2023

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

Re: ABS Lab Analytical
Work Order: 603698

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 09, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures

problem solved

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: 603698 GEL Work Order: 603698

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

** Analyte is a Tracer compound

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

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

Certificate of Analysis

Report Date: January 9, 2023

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

Client Sample ID:	AF50607	Project:	SOOP00119
Sample ID:	603698001	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-DEC-22 10:22		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.97	+/-1.34	2.13	3.00	pCi/L			JE1	12/30/22	1317	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.82	+/-1.47			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.85	+/-0.594	0.335	1.00	pCi/L			LXP1	12/19/22	0936	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.2	(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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: January 9, 2023

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

Client Sample ID:	AF50606	Project:	SOOP00119
Sample ID:	603698002	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-DEC-22 11:34		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		4.41	+/-1.40	1.74	3.00	pCi/L			JE1	12/30/22	1317	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		9.29	+/-1.57			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		4.88	+/-0.720	0.210	1.00	pCi/L			LXP1	12/19/22	0936	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			85.2	(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: January 9, 2023

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

Client Sample ID:	AF50605	Project:	SOOP00119
Sample ID:	603698003	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-DEC-22 13:25		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.730	+/-1.10	1.90	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.08	+/-1.24			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.35	+/-0.561	0.414	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			86.4	(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: January 9, 2023

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

Client Sample ID:	AF50604	Project:	SOOP00119
Sample ID:	603698004	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	06-DEC-22 14:34		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.38	+/-0.850	1.27	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.80	+/-0.941			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.42	+/-0.404	0.266	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			95	(15%-125%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: January 9, 2023

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

Client Sample ID:	AF50602	Project:	SOOP00119
Sample ID:	603698005	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-DEC-22 10:07		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.21	+/-0.915	1.19	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.52	+/-1.00			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.31	+/-0.409	0.291	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			96.1	(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: January 9, 2023

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

Client Sample ID:	AF50603	Project:	SOOP00119
Sample ID:	603698006	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-DEC-22 10:12		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.11	+/-1.19	1.58	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.03	+/-1.24			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.922	+/-0.365	0.315	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			94.4	(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: January 9, 2023

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

Client Sample ID:	AF50608	Project:	SOOP00119
Sample ID:	603698007	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-DEC-22 13:42		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.88	+/-1.36	1.94	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.82	+/-1.48			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.94	+/-0.590	0.322	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.3	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: January 9, 2023

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

Client Sample ID:	AF50609	Project:	SOOP00119
Sample ID:	603698008	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-DEC-22 13:47		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.04	+/-1.29	2.00	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		6.07	+/-1.46			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		4.03	+/-0.687	0.284	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.4	(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: January 9, 2023

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

Client Sample ID:	AF50610	Project:	SOOP00119
Sample ID:	603698009	Client ID:	SOOP001
Matrix:	GW		
Collect Date:	07-DEC-22 15:03		
Receive Date:	09-DEC-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.410	+/-0.632	1.35	3.00	pCi/L			JE1	12/30/22	1318	2354612	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.35	+/-0.925			pCi/L		1	NXL1	01/09/23	1253	2354613	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		3.35	+/-0.675	0.404	1.00	pCi/L			LXP1	12/19/22	1009	2354602	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			92.9	(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

QC Summary

Report Date: January 9, 2023

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **603698**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2354612										
QC1205268192 603698001 DUP										
Radium-228	U	1.97	U	1.00	pCi/L	N/A		N/A	JE1	12/30/22 13:17
	Uncertainty	+/-1.34		+/-0.897						
QC1205268193 LCS										
Radium-228	21.8			18.5	pCi/L		84.7	(75%-125%)		12/30/22 13:17
	Uncertainty			+/-1.21						
QC1205268190 MB										
Radium-228			U	0.296	pCi/L					12/30/22 13:17
	Uncertainty			+/-0.267						
Rad Ra-226										
Batch 2354602										
QC1205268164 603698001 DUP										
Radium-226		2.85		3.51	pCi/L	20.9*		(0%-20%)	LXP1	12/19/22 10:41
	Uncertainty	+/-0.594		+/-0.651						
QC1205268167 LCS										
Radium-226	26.5			25.9	pCi/L		97.7	(75%-125%)		12/19/22 10:41
	Uncertainty			+/-1.56						
QC1205268162 MB										
Radium-226			U	0.191	pCi/L					12/19/22 10:09
	Uncertainty			+/-0.193						
QC1205268166 603698001 MS										
Radium-226	133	2.85		122	pCi/L		89.5	(75%-125%)		12/19/22 10:41
	Uncertainty	+/-0.594		+/-8.71						

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported

QC Summary

Workorder: **603698**

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

>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

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 #: 603698

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2354612

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

GEL Sample ID#	Client Sample Identification
603698001	AF50607
603698002	AF50606
603698003	AF50605
603698004	AF50604
603698005	AF50602
603698006	AF50603
603698007	AF50608
603698008	AF50609
603698009	AF50610
1205268190	Method Blank (MB)
1205268192	603698001(AF50607) Sample Duplicate (DUP)
1205268193	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 603698009 (AF50610) was non-homogenous matrix. Samples were yellow and cloudy 603698009 (AF50610).

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2354602

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

GEL Sample ID#	Client Sample Identification
603698001	AF50607

603698002	AF50606
603698003	AF50605
603698004	AF50604
603698005	AF50602
603698006	AF50603
603698007	AF50608
603698008	AF50609
603698009	AF50610
1205268162	Method Blank (MB)
1205268164	603698001(AF50607) Sample Duplicate (DUP)
1205268166	603698001(AF50607) Matrix Spike (MS)
1205268167	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 603698009 (AF50610) was non-homogenous matrix. Samples 603698009 (AF50610) were yellow and cloudy.

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
1205268164 (AF50607DUP)	Radium-226	RPD 20.9* (0%-20%) RER 1.12 (0-3)

Miscellaneous Information

Additional Comments
Aliquots for the matrix spikes, 1205268166 (AF50607MS), 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.

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 1 / 11 / 23 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

603698

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)

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	Analysis Group: RAD 226/228	Analysis Group: TOTAL RAD CALC		
AF50607	WAP-29	12/6/22	1022	WJK BM	2	P	G	GW	2		X	X		
06	WAP-28	"	1134	"	"	"	"	"	"		"	"		
05	WAP-27	"	1325	"	"	"	"	"	"		"	"		
04	WLF-A2-2 ~~WAP-~~	"	1434	"	"	"	"	"	"		"	"		
AF50602	WLF-A2-1	12/7/22	1007	"	"	"	"	"	"		"	"		
03	WLF-A2-1 DUP	"	1012	"	"	"	"	"	"		"	"		
08	CGYP-7	"	1342	"	"	"	"	"	"		"	"		
09	CGYP-7 DUP	"	1347	"	"	"	"	"	"		"	"		
10	CCMAP-8	"	1503	"	"	"	"	"	"		"	"		

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	12/9/22	0953		GEL	12/9/22	0955
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
			1440			12 9 22	1440
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ **METALS (all)**

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

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ **Trans. Oil Qual.**
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ **GOFER**

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SOOP	**SDG/AR/COC/Work Order:** 603698
Received By: StacyBoone	**Date Received:** 12-10-22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 20 °c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-22 IR3-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials [signature] Date 12/12/22 Page 1 of 1

List of current GEL Certifications as of 09 January 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-160
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 680-221142-1
Client Project/Site: 125915/JM02.08.G01.3/36500

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

Attn: Linda Williams

Authorized for release by:
9/19/2022 6:13:11 PM

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

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

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

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

LINKS

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Job ID: 680-221142-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-221142-1

Receipt

The samples were received on 9/15/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.7°C

Metals

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

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-221142-1	AF38156	Water	07/06/22 11:37	09/15/22 10:30
680-221142-2	AF38157	Water	07/06/22 12:51	09/15/22 10:30
680-221142-3	AF38158	Water	07/18/22 12:01	09/15/22 10:30
680-221142-4	AF38159	Water	07/18/22 15:22	09/15/22 10:30
680-221142-5	AF38160	Water	07/14/22 13:54	09/15/22 10:30
680-221142-6	AF38161	Water	07/11/22 12:55	09/15/22 10:30
680-221142-7	AF38162	Water	07/13/22 10:00	09/15/22 10:30
680-221142-8	AF38163	Water	07/12/22 11:53	09/15/22 10:30
680-221142-9	AF38164	Water	07/13/22 14:34	09/15/22 10:30
680-221142-10	AF38165	Water	07/13/22 13:22	09/15/22 10:30
680-221142-11	AF38166	Water	07/13/22 13:27	09/15/22 10:30
680-221142-12	AF38167	Water	07/18/22 11:06	09/15/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Qualifiers

Metals

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

Glossary

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

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38156 — Lab Sample ID: 680-221142-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4830		2000		ug/L	1		6010D	Total Recoverable
Calcium	2850		500		ug/L	1		6010D	Total Recoverable
Iron	4260		100		ug/L	1		6010D	Total Recoverable
Magnesium	1240		500		ug/L	1		6010D	Total Recoverable
Aluminum	1620		100		ug/L	1		6020B	Total Recoverable
Arsenic	5.23		3.00		ug/L	1		6020B	Total Recoverable
Barium	81.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.41		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38157 — Lab Sample ID: 680-221142-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	97000		2000		ug/L	1		6010D	Total Recoverable
Potassium	7160		1000		ug/L	1		6010D	Total Recoverable
Calcium	346000		500		ug/L	1		6010D	Total Recoverable
Iron	24500		100		ug/L	1		6010D	Total Recoverable
Magnesium	46200		500		ug/L	1		6010D	Total Recoverable
Arsenic	21.2		3.00		ug/L	1		6020B	Total Recoverable
Barium	261		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38158 — Lab Sample ID: 680-221142-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	45600		2000		ug/L	1		6010D	Total Recoverable
Potassium	1980		1000		ug/L	1		6010D	Total Recoverable
Calcium	209000		500		ug/L	1		6010D	Total Recoverable
Iron	19600		100		ug/L	1		6010D	Total Recoverable
Magnesium	11400		500		ug/L	1		6010D	Total Recoverable
Barium	153		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.870		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38159 — Lab Sample ID: 680-221142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14100		2000		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38159 (Continued)

Lab Sample ID: 680-221142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1890		1000		ug/L	1		6010D	Total Recoverable
Calcium	46400		500		ug/L	1		6010D	Total Recoverable
Iron	1100		100		ug/L	1		6010D	Total Recoverable
Magnesium	3870		500		ug/L	1		6010D	Total Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38160

Lab Sample ID: 680-221142-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	27600		2000		ug/L	1		6010D	Total Recoverable
Potassium	5100		1000		ug/L	1		6010D	Total Recoverable
Calcium	57700		500		ug/L	1		6010D	Total Recoverable
Magnesium	4790		500		ug/L	1		6010D	Total Recoverable
Barium	9.12		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38161

Lab Sample ID: 680-221142-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	3880		2000		ug/L	1		6010D	Total Recoverable
Calcium	11200		500		ug/L	1		6010D	Total Recoverable
Iron	1340		100		ug/L	1		6010D	Total Recoverable
Magnesium	875		500		ug/L	1		6010D	Total Recoverable
Aluminum	304		100		ug/L	1		6020B	Total Recoverable
Barium	20.1		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38162

Lab Sample ID: 680-221142-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	15100		2000		ug/L	1		6010D	Total Recoverable
Potassium	4070		1000		ug/L	1		6010D	Total Recoverable
Calcium	683000		500		ug/L	1		6010D	Total Recoverable
Iron	399		100		ug/L	1		6010D	Total Recoverable
Magnesium	14800		500		ug/L	1		6010D	Total Recoverable
Barium	38.4		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38163 — Lab Sample ID: 680-221142-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	127000		2000		ug/L	1		6010D	Total Recoverable
Potassium	26500		1000		ug/L	1		6010D	Total Recoverable
Calcium	457000		500		ug/L	1		6010D	Total Recoverable
Molybdenum	35.6		10.0		ug/L	1		6010D	Total Recoverable
Iron	5460		100		ug/L	1		6010D	Total Recoverable
Magnesium	85400		500		ug/L	1		6010D	Total Recoverable
Arsenic	252		3.00		ug/L	1		6020B	Total Recoverable
Barium	219		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38164 — Lab Sample ID: 680-221142-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	23300		2000		ug/L	1		6010D	Total Recoverable
Potassium	13100		1000		ug/L	1		6010D	Total Recoverable
Calcium	158000		500		ug/L	1		6010D	Total Recoverable
Iron	5000		100		ug/L	1		6010D	Total Recoverable
Magnesium	28300		500		ug/L	1		6010D	Total Recoverable
Aluminum	290		100		ug/L	1		6020B	Total Recoverable
Arsenic	93.3		3.00		ug/L	1		6020B	Total Recoverable
Barium	80.0		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38165 — Lab Sample ID: 680-221142-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	116000		2000		ug/L	1		6010D	Total Recoverable
Potassium	20300		1000		ug/L	1		6010D	Total Recoverable
Calcium	460000		500		ug/L	1		6010D	Total Recoverable
Iron	16300		100		ug/L	1		6010D	Total Recoverable
Magnesium	66100		500		ug/L	1		6010D	Total Recoverable
Arsenic	79.5		3.00		ug/L	1		6020B	Total Recoverable
Barium	206		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38166

Lab Sample ID: 680-221142-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	116000		2000		ug/L	1		6010D	Total Recoverable
Potassium	19700		1000		ug/L	1		6010D	Total Recoverable
Calcium	450000		500		ug/L	1		6010D	Total Recoverable
Iron	16100		100		ug/L	1		6010D	Total Recoverable
Magnesium	65700		500		ug/L	1		6010D	Total Recoverable
Arsenic	86.2		3.00		ug/L	1		6020B	Total Recoverable
Barium	216		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38167

Lab Sample ID: 680-221142-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	40600		2000		ug/L	1		6010D	Total Recoverable
Potassium	2420		1000		ug/L	1		6010D	Total Recoverable
Calcium	228000		500		ug/L	1		6010D	Total Recoverable
Iron	10500		100		ug/L	1		6010D	Total Recoverable
Magnesium	9820		500		ug/L	1		6010D	Total Recoverable
Barium	73.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.49		0.500		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38156
Lab Sample ID: 680-221142-1
Date Collected: 07/06/22 11:37
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**4830**		2000		ug/L		09/16/22 10:41	09/19/22 17:18	1
Potassium	1000	U	1000		ug/L		09/16/22 10:41	09/19/22 17:18	1
Calcium	**2850**		500		ug/L		09/16/22 10:41	09/19/22 17:18	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:18	1
Iron	**4260**		100		ug/L		09/16/22 10:41	09/19/22 17:18	1
Magnesium	**1240**		500		ug/L		09/16/22 10:41	09/19/22 17:18	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1620**		100		ug/L		09/16/22 10:41	09/17/22 17:18	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Arsenic	**5.23**		3.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Barium	**81.1**		5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:18	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:18	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Cobalt	**1.41**		0.500		ug/L		09/16/22 10:41	09/17/22 17:18	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:18	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:18	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:18	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:18	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38157
Lab Sample ID: 680-221142-2
Date Collected: 07/06/22 12:51
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**97000**		2000		ug/L		09/16/22 10:41	09/19/22 17:16	1
Potassium	**7160**		1000		ug/L		09/16/22 10:41	09/19/22 17:16	1
Calcium	**346000**		500		ug/L		09/16/22 10:41	09/19/22 17:16	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:16	1
Iron	**24500**		100		ug/L		09/16/22 10:41	09/19/22 17:16	1
Magnesium	**46200**		500		ug/L		09/16/22 10:41	09/19/22 17:16	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:06	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Arsenic	**21.2**		3.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Barium	**261**		5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:06	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:06	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:06	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:06	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:06	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:06	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:06	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38158
Lab Sample ID: 680-221142-3
Date Collected: 07/18/22 12:01
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**45600**		2000		ug/L		09/16/22 10:41	09/19/22 17:23	1
Potassium	**1980**		1000		ug/L		09/16/22 10:41	09/19/22 17:23	1
Calcium	**209000**		500		ug/L		09/16/22 10:41	09/19/22 17:23	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:23	1
Iron	**19600**		100		ug/L		09/16/22 10:41	09/19/22 17:23	1
Magnesium	**11400**		500		ug/L		09/16/22 10:41	09/19/22 17:23	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:25	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Barium	**153**		5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:25	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:25	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Cobalt	**0.870**		0.500		ug/L		09/16/22 10:41	09/17/22 17:25	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:25	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:25	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:25	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:25	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38159
Lab Sample ID: 680-221142-4
Date Collected: 07/18/22 15:22
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**14100**		2000		ug/L		09/16/22 10:41	09/19/22 17:31	1
Potassium	**1890**		1000		ug/L		09/16/22 10:41	09/19/22 17:31	1
Calcium	**46400**		500		ug/L		09/16/22 10:41	09/19/22 17:31	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:31	1
Iron	**1100**		100		ug/L		09/16/22 10:41	09/19/22 17:31	1
Magnesium	**3870**		500		ug/L		09/16/22 10:41	09/19/22 17:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:37	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Barium	**38.4**		5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:37	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:37	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:37	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:37	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:37	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:37	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:37	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38160

Date Collected: 07/14/22 13:54
Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-5

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**27600**		2000		ug/L		09/16/22 10:41	09/19/22 17:01	1
Potassium	**5100**		1000		ug/L		09/16/22 10:41	09/19/22 17:01	1
Calcium	**57700**		500		ug/L		09/16/22 10:41	09/19/22 17:01	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:01	1
Iron	100	U	100		ug/L		09/16/22 10:41	09/19/22 17:01	1
Magnesium	**4790**		500		ug/L		09/16/22 10:41	09/19/22 17:01	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 16:51	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Barium	**9.12**		5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:51	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:51	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:51	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:51	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:51	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:51	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:51	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38161
Lab Sample ID: 680-221142-6

Date Collected: 07/11/22 12:55
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**3880**		2000		ug/L		09/16/22 10:41	09/19/22 17:38	1
Potassium	1000	U	1000		ug/L		09/16/22 10:41	09/19/22 17:38	1
Calcium	**11200**		500		ug/L		09/16/22 10:41	09/19/22 17:38	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:38	1
Iron	**1340**		100		ug/L		09/16/22 10:41	09/19/22 17:38	1
Magnesium	**875**		500		ug/L		09/16/22 10:41	09/19/22 17:38	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**304**		100		ug/L		09/16/22 10:41	09/17/22 17:41	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Barium	**20.1**		5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:41	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:41	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:41	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:41	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:41	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:41	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:41	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38162
Lab Sample ID: 680-221142-7
Date Collected: 07/13/22 10:00
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**15100**		2000		ug/L		09/16/22 10:41	09/19/22 17:26	1
Potassium	**4070**		1000		ug/L		09/16/22 10:41	09/19/22 17:26	1
Calcium	**683000**		500		ug/L		09/16/22 10:41	09/19/22 17:26	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:26	1
Iron	**399**		100		ug/L		09/16/22 10:41	09/19/22 17:26	1
Magnesium	**14800**		500		ug/L		09/16/22 10:41	09/19/22 17:26	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:29	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Barium	**38.4**		5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:29	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:29	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:29	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:29	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:29	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:29	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:29	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38163
Lab Sample ID: 680-221142-8
Date Collected: 07/12/22 11:53
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	127000		2000		ug/L		09/16/22 10:41	09/19/22 17:08	1
Potassium	26500		1000		ug/L		09/16/22 10:41	09/19/22 17:08	1
Calcium	457000		500		ug/L		09/16/22 10:41	09/19/22 17:08	1
Molybdenum	35.6		10.0		ug/L		09/16/22 10:41	09/19/22 17:08	1
Iron	5460		100		ug/L		09/16/22 10:41	09/19/22 17:08	1
Magnesium	85400		500		ug/L		09/16/22 10:41	09/19/22 17:08	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 16:55	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Arsenic	252		3.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Barium	219		5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:55	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:55	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:55	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:55	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:55	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:55	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:55	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38164

Date Collected: 07/13/22 14:34
Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-9

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**23300**		2000		ug/L		09/16/22 10:41	09/19/22 17:13	1
Potassium	**13100**		1000		ug/L		09/16/22 10:41	09/19/22 17:13	1
Calcium	**158000**		500		ug/L		09/16/22 10:41	09/19/22 17:13	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:13	1
Iron	**5000**		100		ug/L		09/16/22 10:41	09/19/22 17:13	1
Magnesium	**28300**		500		ug/L		09/16/22 10:41	09/19/22 17:13	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**290**		100		ug/L		09/16/22 10:41	09/17/22 17:02	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Arsenic	**93.3**		3.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Barium	**80.0**		5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:02	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:02	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:02	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:02	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:02	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:02	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:02	1

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Client Sample ID: AF38165
Lab Sample ID: 680-221142-10
Date Collected: 07/13/22 13:22
Matrix: Water
Date Received: 09/15/22 10:30

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**116000**		2000		ug/L		09/16/22 10:41	09/19/22 17:28	1
Potassium	**20300**		1000		ug/L		09/16/22 10:41	09/19/22 17:28	1
Calcium	**460000**		500		ug/L		09/16/22 10:41	09/19/22 17:28	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:28	1
Iron	**16300**		100		ug/L		09/16/22 10:41	09/19/22 17:28	1
Magnesium	**66100**		500		ug/L		09/16/22 10:41	09/19/22 17:28	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:33	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Arsenic	**79.5**		3.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Barium	**206**		5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:33	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:33	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:33	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:33	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:33	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:33	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:33	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38166

Date Collected: 07/13/22 13:27
Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-11

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**116000**		2000		ug/L		09/16/22 10:41	09/19/22 17:11	1
Potassium	**19700**		1000		ug/L		09/16/22 10:41	09/19/22 17:11	1
Calcium	**450000**		500		ug/L		09/16/22 10:41	09/19/22 17:11	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:11	1
Iron	**16100**		100		ug/L		09/16/22 10:41	09/19/22 17:11	1
Magnesium	**65700**		500		ug/L		09/16/22 10:41	09/19/22 17:11	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 16:59	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Arsenic	**86.2**		3.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Barium	**216**		5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:59	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:59	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:59	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:59	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:59	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:59	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:59	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38167

Date Collected: 07/18/22 11:06
Date Received: 09/15/22 10:30

Lab Sample ID: 680-221142-12

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**40600**		2000		ug/L		09/16/22 10:41	09/19/22 17:21	1
Potassium	**2420**		1000		ug/L		09/16/22 10:41	09/19/22 17:21	1
Calcium	**228000**		500		ug/L		09/16/22 10:41	09/19/22 17:21	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 17:21	1
Iron	**10500**		100		ug/L		09/16/22 10:41	09/19/22 17:21	1
Magnesium	**9820**		500		ug/L		09/16/22 10:41	09/19/22 17:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 17:22	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Barium	**73.1**		5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:22	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 17:22	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Cobalt	**1.49**		0.500		ug/L		09/16/22 10:41	09/17/22 17:22	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:22	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 17:22	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 17:22	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 17:22	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-740711/1-A
Matrix: Water
Analysis Batch: 741147

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 740711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	2000	U	2000		ug/L		09/16/22 10:41	09/19/22 16:48	1
Potassium	1000	U	1000		ug/L		09/16/22 10:41	09/19/22 16:48	1
Calcium	500	U	500		ug/L		09/16/22 10:41	09/19/22 16:48	1
Molybdenum	10.0	U	10.0		ug/L		09/16/22 10:41	09/19/22 16:48	1
Iron	100	U	100		ug/L		09/16/22 10:41	09/19/22 16:48	1
Magnesium	500	U	500		ug/L		09/16/22 10:41	09/19/22 16:48	1

Lab Sample ID: LCS 680-740711/2-A
Matrix: Water
Analysis Batch: 741147

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 740711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	5050	4865		ug/L		96	80 - 120
Potassium	6970	6814		ug/L		98	80 - 120
Calcium	5000	4841		ug/L		97	80 - 120
Molybdenum	100	98.16		ug/L		98	80 - 120
Iron	5000	4904		ug/L		98	80 - 120
Magnesium	5010	4833		ug/L		96	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-740713/1-A
Matrix: Water
Analysis Batch: 740910

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 740713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/16/22 10:41	09/17/22 16:32	1
Antimony	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Arsenic	3.00	U	3.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Barium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Beryllium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:32	1
Cadmium	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:32	1
Chromium	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Cobalt	0.500	U	0.500		ug/L		09/16/22 10:41	09/17/22 16:32	1
Copper	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Lead	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:32	1
Nickel	5.00	U	5.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Selenium	2.50	U	2.50		ug/L		09/16/22 10:41	09/17/22 16:32	1
Thallium	1.00	U	1.00		ug/L		09/16/22 10:41	09/17/22 16:32	1
Zinc	20.0	U	20.0		ug/L		09/16/22 10:41	09/17/22 16:32	1

Lab Sample ID: LCS 680-740713/2-A
Matrix: Water
Analysis Batch: 740910

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 740713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4746		ug/L		95	80 - 120
Antimony	50.0	46.63		ug/L		93	80 - 120
Arsenic	100	93.41		ug/L		93	80 - 120

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

Lab Sample ID: LCS 680-740713/2-A
Matrix: Water
Analysis Batch: 740910

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 740713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	100	95.03		ug/L		95	80 - 120
Beryllium	50.0	47.40		ug/L		95	80 - 120
Cadmium	50.0	49.06		ug/L		98	80 - 120
Chromium	100	90.69		ug/L		91	80 - 120
Cobalt	50.0	50.25		ug/L		101	80 - 120
Copper	100	101.2		ug/L		101	80 - 120
Lead	505	467.8		ug/L		93	80 - 120
Nickel	99.0	95.88		ug/L		97	80 - 120
Selenium	100	94.54		ug/L		94	80 - 120
Thallium	50.0	46.14		ug/L		92	80 - 120
Zinc	100	99.70		ug/L		100	80 - 120

Metals

Prep Batch: 740711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	3005A	
680-221142-2	AF38157	Total Recoverable	Water	3005A	
680-221142-3	AF38158	Total Recoverable	Water	3005A	
680-221142-4	AF38159	Total Recoverable	Water	3005A	
680-221142-5	AF38160	Total Recoverable	Water	3005A	
680-221142-6	AF38161	Total Recoverable	Water	3005A	
680-221142-7	AF38162	Total Recoverable	Water	3005A	
680-221142-8	AF38163	Total Recoverable	Water	3005A	
680-221142-9	AF38164	Total Recoverable	Water	3005A	
680-221142-10	AF38165	Total Recoverable	Water	3005A	
680-221142-11	AF38166	Total Recoverable	Water	3005A	
680-221142-12	AF38167	Total Recoverable	Water	3005A	
MB 680-740711/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-740711/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 740713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	3005A	
680-221142-2	AF38157	Total Recoverable	Water	3005A	
680-221142-3	AF38158	Total Recoverable	Water	3005A	
680-221142-4	AF38159	Total Recoverable	Water	3005A	
680-221142-5	AF38160	Total Recoverable	Water	3005A	
680-221142-6	AF38161	Total Recoverable	Water	3005A	
680-221142-7	AF38162	Total Recoverable	Water	3005A	
680-221142-8	AF38163	Total Recoverable	Water	3005A	
680-221142-9	AF38164	Total Recoverable	Water	3005A	
680-221142-10	AF38165	Total Recoverable	Water	3005A	
680-221142-11	AF38166	Total Recoverable	Water	3005A	
680-221142-12	AF38167	Total Recoverable	Water	3005A	
MB 680-740713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-740713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 740910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	6020B	740713
680-221142-2	AF38157	Total Recoverable	Water	6020B	740713
680-221142-3	AF38158	Total Recoverable	Water	6020B	740713
680-221142-4	AF38159	Total Recoverable	Water	6020B	740713
680-221142-5	AF38160	Total Recoverable	Water	6020B	740713
680-221142-6	AF38161	Total Recoverable	Water	6020B	740713
680-221142-7	AF38162	Total Recoverable	Water	6020B	740713
680-221142-8	AF38163	Total Recoverable	Water	6020B	740713
680-221142-9	AF38164	Total Recoverable	Water	6020B	740713
680-221142-10	AF38165	Total Recoverable	Water	6020B	740713
680-221142-11	AF38166	Total Recoverable	Water	6020B	740713
680-221142-12	AF38167	Total Recoverable	Water	6020B	740713
MB 680-740713/1-A	Method Blank	Total Recoverable	Water	6020B	740713
LCS 680-740713/2-A	Lab Control Sample	Total Recoverable	Water	6020B	740713

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Metals

Analysis Batch: 741147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221142-1	AF38156	Total Recoverable	Water	6010D	740711
680-221142-2	AF38157	Total Recoverable	Water	6010D	740711
680-221142-3	AF38158	Total Recoverable	Water	6010D	740711
680-221142-4	AF38159	Total Recoverable	Water	6010D	740711
680-221142-5	AF38160	Total Recoverable	Water	6010D	740711
680-221142-6	AF38161	Total Recoverable	Water	6010D	740711
680-221142-7	AF38162	Total Recoverable	Water	6010D	740711
680-221142-8	AF38163	Total Recoverable	Water	6010D	740711
680-221142-9	AF38164	Total Recoverable	Water	6010D	740711
680-221142-10	AF38165	Total Recoverable	Water	6010D	740711
680-221142-11	AF38166	Total Recoverable	Water	6010D	740711
680-221142-12	AF38167	Total Recoverable	Water	6010D	740711
MB 680-740711/1-A	Method Blank	Total Recoverable	Water	6010D	740711
LCS 680-740711/2-A	Lab Control Sample	Total Recoverable	Water	6010D	740711

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38156

Lab Sample ID: 680-221142-1

Date Collected: 07/06/22 11:37
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:18
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:18

Client Sample ID: AF38157

Lab Sample ID: 680-221142-2

Date Collected: 07/06/22 12:51
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:16
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:06

Client Sample ID: AF38158

Lab Sample ID: 680-221142-3

Date Collected: 07/18/22 12:01
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:23
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:25

Client Sample ID: AF38159

Lab Sample ID: 680-221142-4

Date Collected: 07/18/22 15:22
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:31
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:37

Client Sample ID: AF38160

Lab Sample ID: 680-221142-5

Date Collected: 07/14/22 13:54
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:01
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 16:51

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38161

Lab Sample ID: 680-221142-6

Date Collected: 07/11/22 12:55
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:38
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:41

Client Sample ID: AF38162

Lab Sample ID: 680-221142-7

Date Collected: 07/13/22 10:00
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:26
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:29

Client Sample ID: AF38163

Lab Sample ID: 680-221142-8

Date Collected: 07/12/22 11:53
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:08
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 16:55

Client Sample ID: AF38164

Lab Sample ID: 680-221142-9

Date Collected: 07/13/22 14:34
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:13
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:02

Client Sample ID: AF38165

Lab Sample ID: 680-221142-10

Date Collected: 07/13/22 13:22
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:28
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:33

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.3/36500

Job ID: 680-221142-1

Client Sample ID: AF38166

Lab Sample ID: 680-221142-11

Date Collected: 07/13/22 13:27
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:11
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 16:59

Client Sample ID: AF38167

Lab Sample ID: 680-221142-12

Date Collected: 07/18/22 11:06
Matrix: Water
Date Received: 09/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			740711	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6010D		1	741147	BCB	EET SAV	09/19/22 17:21
Total Recoverable	Prep	3005A			740713	RR	EET SAV	09/16/22 10:41
Total Recoverable	Analysis	6020B		1	740910	BWR	EET SAV	09/17/22 17:22

Laboratory References:

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

Contract Lab Info. TA SAV Contract Lab Due Date (Lab Only). 9 / 19 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

RUSH!

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.601.3 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS - SEE BELOW			
AF38156	WAP-1	7/6	1137	DEN BM	1	P	G	GW	2	USE APPROPRIATE	X			
57	2	7/6	1251							METHOD TO MEET RLS.				
58	3	7/18	1201							-SEE SHEET FOR RLS.				
59	4	7/18	1522											
60	5	7/14	1354							PLEASE RETURN SAMPLE.				
61	6	7/11	1255							UPON COMPLETION.				
62	7	7/13	1000											
63	8	7/12	1153											
64	9	7/13	1434											
65	10	7/13	1322 ~~1434~~											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
JGBrown	35594	9/14/22	1500	AM		9/15	10:20
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ METALS (all)		
☐ Ag	☒ Cu	☒ Sb
☒ Al	☒ Fe	☒ Se
☒ As	☒ K	☐ Sn
☐ B	☐ Li	☐ Sr
☒ Ba	☒ Mg	☐ Ti
☒ Be	☐ Mn	☒ Tl
☐ Ca	☒ Mo	☐ V
☒ Cd	☒ Na	☐ Zn
☒ Co	☒ Ni	☐ Hg
☒ Cr	☒ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

680-221142 Chain of Custody

19.8 | 19.7

Matrix codes. GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 9 / 19 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

RUSH!

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
LCWILLIA @santeecooper.com	/ /	125915 / JM02.08.G01.3 / 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	TOTAL METALS -SEE BELOW			
AF38166	WAP-10 DUP	7/13	1327	DEW/BM	1	P	G	GW	2	EITHER USE ^ METHOD TO MEET	X			
1 67	WAP-11	7/18	1106	1	1	P	G	1	2	~~RE~~ REQUESTED RLS	X			
										SEE SHEET FOR RLS.				
										PLEASE RETURN SAMPLE				
										UPON COMPLETION				

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	9/14/22	1500	CMP		9/15	10:30
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

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

☐ **METALS (all)**

☐ Ag	☒ Cu	☒ Sb
☒ Al	☒ Fe	☒ Se
☒ As	☒ K	☐ Sn
☐ B	☐ Li	☐ Sr
☒ Ba	☒ Mg	☐ Ti
☒ Be	☐ Mn	☒ Tl
☒ Ca	☒ Mo	☐ V
☒ Cd	☒ Na	☒ Zn
☒ Co	☒ Ni	☐ Hg
☒ Cr	☒ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-221142-1

Login Number: 221142

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-221142-1
Project/Site: 125915/JM02.08.G01.3/36500

Laboratory: Eurofins Savannah

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

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Rogers & Callcott ENVIRONMENTAL

Laboratory Services

Laboratory Report

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

Dear Client:

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

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

Report Approved By:

Elisabeth Noblet

Elisabeth Noblet
Project Manager

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Rogers & Callcott ENVIRONMENTAL

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

Certificate of Analysis

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

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

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

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Case Narrative

Partial Report

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

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Sample Data

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

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

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

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2183 - EPA 3005A											
Blank (B2H2183-BLK1)											
Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2183-BS1)											
Aluminum	0.47	0.050	mg/L	0.500		95	80-120				RC-G
Barium	0.47	0.010	mg/L	0.500		95	80-120				RC-G
Boron	470	15	ug/L	500		95	80-120				RC-G
Cadmium	0.47	0.004	mg/L	0.500		94	80-120				RC-G
Calcium	0.50	0.050	mg/L	0.500		99	80-120				RC-G
Copper	0.48	0.005	mg/L	0.500		96	80-120				RC-G
Iron	0.47	0.050	mg/L	0.500		95	80-120				RC-G
Lead	0.48	0.010	mg/L	0.500		96	80-120				RC-G
Lithium	479	10	ug/L	500		96	80-120				RC-G
Magnesium	0.48	0.050	mg/L	0.500		96	80-120				RC-G
Molybdenum	460	10	ug/L	500		93	80-120				RC-G
Nickel	0.47	0.010	mg/L	0.500		94	80-120				RC-G
Potassium	5.2	0.10	mg/L	5.00		104	80-120				RC-G
Sodium	0.49	0.10	mg/L	0.500		97	80-120				RC-G
Zinc	0.48	0.010	mg/L	0.500		96	80-120				RC-G
Matrix Spike (B2H2183-MS1)	**Source: 22H1276-04**										
Aluminum	0.55	0.050	mg/L	0.500	ND	103	75-125				RC-G
Barium	0.70	0.010	mg/L	0.500	0.21	97	75-125				RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2183 - EPA 3005A											
Matrix Spike (B2H2183-MS1)	**Source: 22H1276-04**										
Boron	9200	15	ug/L	500	8300	170	75-125			S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	97	75-125				RC-G
Calcium	190	0.050	mg/L	0.500	560	NR	75-125			S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.011	103	75-125				RC-G
Iron	18	0.050	mg/L	0.500	18	25	75-125			S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	93	75-125				RC-G
Lithium	636	10	ug/L	500	26	122	75-125				RC-G
Magnesium	42	0.050	mg/L	0.500	78	NR	75-125			S3	RC-G
Molybdenum	480	10	ug/L	500	ND	96	75-125				RC-G
Nickel	0.46	0.010	mg/L	0.500	ND	93	75-125				RC-G
Potassium	35	0.10	mg/L	5.00	24	215	75-125			S3	RC-G
Zinc	0.46	0.010	mg/L	0.500	ND	92	75-125				RC-G
Matrix Spike (B2H2183-MS2)	**Source: 22H1276-05**										
Aluminum	0.54	0.050	mg/L	0.500	ND	101	75-125				RC-G
Barium	0.68	0.010	mg/L	0.500	0.21	94	75-125				RC-G
Boron	8800	15	ug/L	500	8100	142	75-125			S3	RC-G
Cadmium	0.47	0.004	mg/L	0.500	ND	95	75-125				RC-G
Calcium	180	0.050	mg/L	0.500	490	NR	75-125			S3	RC-G
Copper	0.51	0.005	mg/L	0.500	0.023	98	75-125				RC-G
Iron	17	0.050	mg/L	0.500	17	16	75-125			S3	RC-G
Lead	0.46	0.010	mg/L	0.500	ND	91	75-125				RC-G
Lithium	613	10	ug/L	500	26	117	75-125				RC-G
Magnesium	41	0.050	mg/L	0.500	71	NR	75-125			S3	RC-G
Molybdenum	470	10	ug/L	500	ND	93	75-125				RC-G
Nickel	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Potassium	34	0.10	mg/L	5.00	23	215	75-125			S3	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	89	75-125				RC-G
Matrix Spike Dup (B2H2183-MSD1)	**Source: 22H1276-04**										
Aluminum	0.56	0.050	mg/L	0.500	ND	105	75-125	2	20		RC-G
Barium	0.70	0.010	mg/L	0.500	0.21	97	75-125	0.3	20		RC-G
Boron	9100	15	ug/L	500	8300	163	75-125	0.4	20	S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125	0.6	20		RC-G
Calcium	190	0.050	mg/L	0.500	560	NR	75-125	0.1	20	S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.011	104	75-125	0.2	20		RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2183 - EPA 3005A											
Matrix Spike Dup (B2H2183-MSD1)	**Source: 22H1276-04**										
Iron	18	0.050	mg/L	0.500	18	9	75-125	0.4	20	S3	RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125	0.8	20		RC-G
Lithium	637	10	ug/L	500	26	122	75-125	0.1	20		RC-G
Magnesium	42	0.050	mg/L	0.500	78	NR	75-125	0.6	20	S3	RC-G
Molybdenum	490	10	ug/L	500	ND	98	75-125	2	20		RC-G
Nickel	0.47	0.010	mg/L	0.500	ND	94	75-125	0.9	20		RC-G
Potassium	35	0.10	mg/L	5.00	24	210	75-125	0.8	20	S3	RC-G
Zinc	0.46	0.010	mg/L	0.500	ND	92	75-125	0.5	20		RC-G
Matrix Spike Dup (B2H2183-MSD2)	**Source: 22H1276-05**										
Aluminum	0.55	0.050	mg/L	0.500	ND	104	75-125	2	20		RC-G
Barium	0.71	0.010	mg/L	0.500	0.21	99	75-125	4	20		RC-G
Boron	9400	15	ug/L	500	8100	245	75-125	6	20	S3	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	97	75-125	2	20		RC-G
Calcium	190	0.050	mg/L	0.500	490	NR	75-125	3	20	S3	RC-G
Copper	0.53	0.005	mg/L	0.500	0.023	100	75-125	3	20		RC-G
Iron	18	0.050	mg/L	0.500	17	217	75-125	6	20	S3	RC-G
Lead	0.47	0.010	mg/L	0.500	ND	93	75-125	2	20		RC-G
Lithium	676	10	ug/L	500	26	130	75-125	10	20	S1	RC-G
Magnesium	42	0.050	mg/L	0.500	71	NR	75-125	3	20	S3	RC-G
Molybdenum	480	10	ug/L	500	ND	97	75-125	3	20		RC-G
Nickel	0.46	0.010	mg/L	0.500	ND	92	75-125	2	20		RC-G
Potassium	36	0.10	mg/L	5.00	23	261	75-125	7	20	S3	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	91	75-125	2	20		RC-G
Batch B2H2214 - EPA 3005A											
Blank (B2H2214-BLK1)											
Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G

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1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2214 - EPA 3005A											
Blank (B2H2214-BLK1)											
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2214-BS1)											
Aluminum	0.49	0.050	mg/L	0.500		98	80-120				RC-G
Barium	0.51	0.010	mg/L	0.500		103	80-120				RC-G
Boron	480	15	ug/L	500		97	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		100	80-120				RC-G
Calcium	0.50	0.050	mg/L	0.500		99	80-120				RC-G
Copper	0.49	0.005	mg/L	0.500		98	80-120				RC-G
Iron	0.59	0.050	mg/L	0.500		119	80-120				RC-G
Lead	0.52	0.010	mg/L	0.500		103	80-120				RC-G
Lithium	497	10	ug/L	500		99	80-120				RC-G
Magnesium	0.52	0.050	mg/L	0.500		104	80-120				RC-G
Molybdenum	500	10	ug/L	500		100	80-120				RC-G
Nickel	0.51	0.010	mg/L	0.500		103	80-120				RC-G
Potassium	5.6	0.10	mg/L	5.00		111	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		102	80-120				RC-G
Zinc	0.52	0.010	mg/L	0.500		105	80-120				RC-G
Matrix Spike (B2H2214-MS3)	**Source: 22H1276-05RE1**										
Lithium	654	10	ug/L	500	28	125	75-125			S1	RC-G
Matrix Spike (B2H2214-MS4)	**Source: 22H1276-21RE1**										
Potassium	11	0.10	mg/L	5.00	5.4	110	75-125				RC-G
Matrix Spike (B2H2214-MS5)	**Source: 22H1276-22RE1**										
Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125			S1	RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2214 - EPA 3005A											
Matrix Spike Dup (B2H2214-MSD3)	**Source: 22H1276-05RE1**										
Lithium	643	10	ug/L	500	28	123	75-125	2	20		RC-G
Matrix Spike Dup (B2H2214-MSD4)	**Source: 22H1276-21RE1**										
Potassium	12	0.10	mg/L	5.00	5.4	123	75-125	6	20		RC-G
Matrix Spike Dup (B2H2214-MSD5)	**Source: 22H1276-22RE1**										
Aluminum	1.4	0.050	mg/L	0.500	0.72	128	75-125	0.02	20	S1	RC-G
Batch B2H2259 - EPA 3005A											
Blank (B2H2259-BLK1)											
Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2259-BS1)											
Aluminum	0.49	0.050	mg/L	0.500		99	80-120				RC-G
Barium	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Boron	490	15	ug/L	500		98	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		99	80-120				RC-G
Copper	0.49	0.005	mg/L	0.500		99	80-120				RC-G
Iron	0.53	0.050	mg/L	0.500		106	80-120				RC-G
Lead	0.50	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	487	10	ug/L	500		97	80-120				RC-G
Magnesium	0.51	0.050	mg/L	0.500		102	80-120				RC-G
Molybdenum	490	10	ug/L	500		98	80-120				RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2259 - EPA 3005A											
LCS (B2H2259-BS1)											
Nickel	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Potassium	5.5	0.10	mg/L	5.00		110	80-120				RC-G
Sodium	0.51	0.10	mg/L	0.500		101	80-120				RC-G
Zinc	0.52	0.010	mg/L	0.500		103	80-120				RC-G
Matrix Spike (B2H2259-MS1)	**Source: 22H1276-21**										
Aluminum	0.56	0.050	mg/L	0.500	0.052	102	75-125				RC-G
Barium	0.51	0.010	mg/L	0.500	ND	100	75-125				RC-G
Boron	820	15	ug/L	500	300	104	75-125				RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125				RC-G
Iron	0.75	0.050	mg/L	0.500	0.20	110	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Lithium	543	10	ug/L	500	ND	108	75-125				RC-G
Magnesium	8.7	0.050	mg/L	0.500	8.5	51	75-125			S3	RC-G
Molybdenum	510	10	ug/L	500	ND	101	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	12	0.10	mg/L	5.00	5.6	126	75-125			S1	RC-G
Sodium	24	0.10	mg/L	0.500	28	NR	75-125			S3	RC-G
Zinc	0.52	0.010	mg/L	0.500	ND	104	75-125				RC-G
Matrix Spike (B2H2259-MS2)	**Source: 22H1276-22**										
Aluminum	1.6	0.050	mg/L	0.500	0.91	134	75-125			S1	RC-G
Barium	0.53	0.010	mg/L	0.500	0.031	100	75-125				RC-G
Boron	3000	15	ug/L	500	2500	106	75-125				RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125				RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125				RC-G
Iron	1.4	0.050	mg/L	0.500	0.83	105	75-125				RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Lithium	574	10	ug/L	500	ND	115	75-125				RC-G
Magnesium	12	0.050	mg/L	0.500	13	NR	75-125			S3	RC-G
Molybdenum	510	10	ug/L	500	ND	102	75-125				RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125				RC-G
Potassium	15	0.10	mg/L	5.00	10	101	75-125				RC-G
Sodium	16	0.10	mg/L	0.500	16	NR	75-125			S3	RC-G
Zinc	0.51	0.010	mg/L	0.500	ND	102	75-125				RC-G

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Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2259 - EPA 3005A											
Matrix Spike Dup (B2H2259-MSD1)	**Source: 22H1276-21**										
Aluminum	0.56	0.050	mg/L	0.500	0.052	101	75-125	1	20		RC-G
Barium	0.51	0.010	mg/L	0.500	ND	101	75-125	0.4	20		RC-G
Boron	830	15	ug/L	500	300	105	75-125	0.6	20		RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	100	75-125	0.3	20		RC-G
Copper	0.51	0.005	mg/L	0.500	ND	102	75-125	0.3	20		RC-G
Iron	0.72	0.050	mg/L	0.500	0.20	105	75-125	4	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125	0.7	20		RC-G
Lithium	558	10	ug/L	500	ND	111	75-125	3	20		RC-G
Magnesium	8.8	0.050	mg/L	0.500	8.5	56	75-125	0.3	20	S3	RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	2	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.4	20		RC-G
Potassium	12	0.10	mg/L	5.00	5.6	127	75-125	0.4	20	S1	RC-G
Sodium	24	0.10	mg/L	0.500	28	NR	75-125	0.3	20	S3	RC-G
Zinc	0.52	0.010	mg/L	0.500	ND	103	75-125	0.3	20		RC-G
Matrix Spike Dup (B2H2259-MSD2)	**Source: 22H1276-22**										
Aluminum	1.6	0.050	mg/L	0.500	0.91	134	75-125	0.2	20	S1	RC-G
Barium	0.53	0.010	mg/L	0.500	0.031	100	75-125	0.2	20		RC-G
Boron	3000	15	ug/L	500	2500	111	75-125	0.9	20		RC-G
Cadmium	0.50	0.004	mg/L	0.500	ND	99	75-125	0.1	20		RC-G
Copper	0.51	0.005	mg/L	0.500	ND	101	75-125	0.2	20		RC-G
Iron	1.4	0.050	mg/L	0.500	0.83	105	75-125	0.01	20		RC-G
Lead	0.50	0.010	mg/L	0.500	ND	100	75-125	0.4	20		RC-G
Lithium	544	10	ug/L	500	ND	109	75-125	5	20		RC-G
Magnesium	12	0.050	mg/L	0.500	13	NR	75-125	0.9	20	S3	RC-G
Molybdenum	510	10	ug/L	500	ND	103	75-125	0.9	20		RC-G
Nickel	0.50	0.010	mg/L	0.500	ND	100	75-125	0.1	20		RC-G
Potassium	15	0.10	mg/L	5.00	10	103	75-125	0.6	20		RC-G
Sodium	16	0.10	mg/L	0.500	16	NR	75-125	0.5	20	S3	RC-G
Zinc	0.51	0.010	mg/L	0.500	ND	102	75-125	0.2	20		RC-G
Batch B2H2302 - EPA 3005A											
Blank (B2H2302-BLK1)											
Aluminum	ND	0.050	mg/L								RC-G
Barium	ND	0.010	mg/L								RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2302 - EPA 3005A											
Blank (B2H2302-BLK1)											
Boron	ND	15	ug/L								RC-G
Cadmium	ND	0.004	mg/L								RC-G
Calcium	ND	0.050	mg/L								RC-G
Copper	ND	0.005	mg/L								RC-G
Iron	ND	0.050	mg/L								RC-G
Lead	ND	0.010	mg/L								RC-G
Lithium	ND	10	ug/L								RC-G
Magnesium	ND	0.050	mg/L								RC-G
Molybdenum	ND	10	ug/L								RC-G
Nickel	ND	0.010	mg/L								RC-G
Potassium	ND	0.10	mg/L								RC-G
Sodium	ND	0.10	mg/L								RC-G
Zinc	ND	0.010	mg/L								RC-G
LCS (B2H2302-BS1)											
Aluminum	0.49	0.050	mg/L	0.500		98	80-120				RC-G
Barium	0.50	0.010	mg/L	0.500		100	80-120				RC-G
Boron	510	15	ug/L	500		101	80-120				RC-G
Cadmium	0.50	0.004	mg/L	0.500		100	80-120				RC-G
Calcium	0.51	0.050	mg/L	0.500		103	80-120				RC-G
Copper	0.51	0.005	mg/L	0.500		102	80-120				RC-G
Iron	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Lead	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Lithium	493	10	ug/L	500		99	80-120				RC-G
Magnesium	0.50	0.050	mg/L	0.500		100	80-120				RC-G
Molybdenum	500	10	ug/L	500		100	80-120				RC-G
Nickel	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Potassium	5.3	0.10	mg/L	5.00		106	80-120				RC-G
Sodium	0.53	0.10	mg/L	0.500		107	80-120				RC-G
Zinc	0.51	0.010	mg/L	0.500		101	80-120				RC-G
Duplicate (B2H2302-DUP1)	**Source: 22H1276-43**										
Aluminum	0.081	0.050	mg/L		0.083			2	20		RC-G
Barium	0.041	0.010	mg/L		0.041			0.4	20		RC-G
Boron	4000	15	ug/L		4000			0.7	20		RC-G
Cadmium	ND	0.004	mg/L		ND				20		RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2302 - EPA 3005A											
Duplicate (B2H2302-DUP1)	**Source: 22H1276-43**										
Calcium	110	0.050	mg/L		250			78	20	P4	RC-G
Copper	ND	0.005	mg/L		ND				20		RC-G
Iron	1.5	0.050	mg/L		1.5			0.5	20		RC-G
Lead	ND	0.010	mg/L		ND				20		RC-G
Lithium	40	10	ug/L		40			0.5	20		RC-G
Magnesium	25	0.050	mg/L		37			36	20	P4	RC-G
Molybdenum	31	10	ug/L		31			2	20		RC-G
Nickel	ND	0.010	mg/L		ND				20		RC-G
Potassium	16	0.10	mg/L		16			0.5	20		RC-G
Sodium	67	5.0	mg/L		65			3	20		RC-G
Zinc	ND	0.010	mg/L		ND				20		RC-G
Matrix Spike (B2H2302-MS1)	**Source: 22H1276-43**										
Aluminum	0.56	0.050	mg/L	0.500	0.083	94	75-125				RC-G
Barium	0.50	0.010	mg/L	0.500	0.041	92	75-125				RC-G
Boron	4400	15	ug/L	500	4000	84	75-125				RC-G
Cadmium	0.46	0.004	mg/L	0.500	ND	92	75-125				RC-G
Calcium	110	0.050	mg/L	0.500	250	NR	75-125			S3	RC-G
Copper	0.49	0.005	mg/L	0.500	ND	98	75-125				RC-G
Iron	1.9	0.050	mg/L	0.500	1.5	88	75-125				RC-G
Lead	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Lithium	582	10	ug/L	500	40	108	75-125				RC-G
Magnesium	25	0.050	mg/L	0.500	37	NR	75-125			S3	RC-G
Molybdenum	490	10	ug/L	500	31	92	75-125				RC-G
Potassium	22	0.10	mg/L	5.00	16	104	75-125				RC-G
Sodium	67	5.0	mg/L	0.500	65	365	75-125			S4	RC-G
Zinc	0.45	0.010	mg/L	0.500	ND	90	75-125				RC-G
Matrix Spike (B2H2302-MS2)	**Source: 22H1276-44**										
Aluminum	2.3	0.050	mg/L	0.500	1.7	111	75-125				RC-G
Barium	0.53	0.010	mg/L	0.500	0.041	98	75-125				RC-G
Boron	4800	15	ug/L	500	4100	131	75-125			S1	RC-G
Cadmium	0.49	0.004	mg/L	0.500	ND	98	75-125				RC-G
Calcium	150	0.050	mg/L	0.500	320	NR	75-125			S3	RC-G
Copper	0.52	0.005	mg/L	0.500	ND	105	75-125				RC-G
Iron	3.3	0.050	mg/L	0.500	2.7	113	75-125				RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2302 - EPA 3005A											
Matrix Spike (B2H2302-MS2)	**Source: 22H1276-44**										
Lead	0.48	0.010	mg/L	0.500	ND	95	75-125				RC-G
Lithium	1370	10	ug/L	500	773	120	75-125				RC-G
Magnesium	31	0.050	mg/L	0.500	45	NR	75-125			S3	RC-G
Molybdenum	540	10	ug/L	500	50	98	75-125				RC-G
Nickel	0.49	0.010	mg/L	0.500	ND	99	75-125				RC-G
Potassium	28	0.10	mg/L	5.00	21	132	75-125			S1	RC-G
Sodium	52	5.0	mg/L	0.500	39	NR	75-125			S4	RC-G
Zinc	0.48	0.010	mg/L	0.500	ND	95	75-125				RC-G
Matrix Spike Dup (B2H2302-MSD2)	**Source: 22H1276-44**										
Aluminum	2.3	0.050	mg/L	0.500	1.7	118	75-125	1	20		RC-G
Barium	0.55	0.010	mg/L	0.500	0.041	101	75-125	3	20		RC-G
Boron	4900	15	ug/L	500	4100	145	75-125	1	20	S1	RC-G
Cadmium	0.51	0.004	mg/L	0.500	ND	101	75-125	3	20		RC-G
Calcium	150	0.050	mg/L	0.500	320	NR	75-125	0.4	20	S3	RC-G
Copper	0.54	0.005	mg/L	0.500	ND	108	75-125	3	20		RC-G
Iron	3.3	0.050	mg/L	0.500	2.7	118	75-125	0.8	20		RC-G
Lead	0.49	0.010	mg/L	0.500	ND	98	75-125	3	20		RC-G
Lithium	1390	10	ug/L	500	773	124	75-125	2	20		RC-G
Magnesium	31	0.050	mg/L	0.500	45	NR	75-125	0.1	20	S3	RC-G
Molybdenum	560	10	ug/L	500	50	103	75-125	4	20		RC-G
Nickel	0.51	0.010	mg/L	0.500	ND	101	75-125	2	20		RC-G
Potassium	28	0.10	mg/L	5.00	21	137	75-125	1	20	S1	RC-G
Sodium	47	5.0	mg/L	0.500	39	NR	75-125	9	20	S4	RC-G
Zinc	0.49	0.010	mg/L	0.500	ND	98	75-125	3	20		RC-G
Batch B2H2325 - EPA 3005A Mod											
Blank (B2H2325-BLK1)											
Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Thallium	ND	0.001	mg/L								RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2325 - EPA 3005A Mod											
LCS (B2H2325-BS1)											
Antimony	0.235	0.005	mg/L	0.200		117	80-120				RC-G
Arsenic	0.214	0.005	mg/L	0.200		107	80-120				RC-G
Selenium	0.207	0.005	mg/L	0.200		104	80-120				RC-G
Thallium	0.213	0.001	mg/L	0.200		107	80-120				RC-G
Matrix Spike (B2H2325-MS1)	**Source: 22H1276-41**										
Antimony	0.273	0.005	mg/L	0.200	ND	136	75-125			Z	RC-G
Arsenic	0.216	0.005	mg/L	0.200	ND	107	75-125				RC-G
Selenium	0.200	0.005	mg/L	0.200	ND	98	75-125				RC-G
Thallium	0.201	0.001	mg/L	0.200	ND	100	75-125				RC-G
Matrix Spike (B2H2325-MS2)	**Source: 22H1276-42**										
Antimony	0.270	0.005	mg/L	0.200	ND	135	75-125			Z	RC-G
Arsenic	0.298	0.005	mg/L	0.200	0.095	102	75-125				RC-G
Selenium	0.202	0.005	mg/L	0.200	ND	100	75-125				RC-G
Thallium	0.184	0.001	mg/L	0.200	ND	92	75-125				RC-G
Matrix Spike Dup (B2H2325-MSD1)	**Source: 22H1276-41**										
Antimony	0.276	0.005	mg/L	0.200	ND	138	75-125	1	20	Z	RC-G
Arsenic	0.211	0.005	mg/L	0.200	ND	105	75-125	2	20		RC-G
Selenium	0.199	0.005	mg/L	0.200	ND	98	75-125	0.6	20		RC-G
Thallium	0.205	0.001	mg/L	0.200	ND	102	75-125	2	20		RC-G
Matrix Spike Dup (B2H2325-MSD2)	**Source: 22H1276-42**										
Antimony	0.284	0.005	mg/L	0.200	ND	142	75-125	5	20	Z	RC-G
Arsenic	0.308	0.005	mg/L	0.200	0.095	107	75-125	3	20		RC-G
Selenium	0.212	0.005	mg/L	0.200	ND	105	75-125	5	20		RC-G
Thallium	0.197	0.001	mg/L	0.200	ND	98	75-125	7	20		RC-G
Batch B2H2327 - EPA 3005A Mod											
Blank (B2H2327-BLK1)											
Antimony	ND	0.005	mg/L								RC-G
Arsenic	ND	0.005	mg/L								RC-G
Selenium	ND	0.005	mg/L								RC-G
Thallium	ND	0.001	mg/L								RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2327 - EPA 3005A Mod											
LCS (B2H2327-BS1)											
Antimony	0.237	0.005	mg/L	0.200		119	80-120				RC-G
Arsenic	0.218	0.005	mg/L	0.200		109	80-120				RC-G
Selenium	0.226	0.005	mg/L	0.200		113	80-120				RC-G
Thallium	0.206	0.001	mg/L	0.200		103	80-120				RC-G
Matrix Spike (B2H2327-MS1)	**Source: 22H1276-45**										
Antimony	0.268	0.005	mg/L	0.200	ND	133	75-125			Z	RC-G
Arsenic	0.216	0.005	mg/L	0.200	0.005	105	75-125				RC-G
Selenium	0.208	0.005	mg/L	0.200	ND	102	75-125				RC-G
Thallium	0.196	0.001	mg/L	0.200	ND	98	75-125				RC-G
Matrix Spike Dup (B2H2327-MSD1)	**Source: 22H1276-45**										
Antimony	0.264	0.005	mg/L	0.200	ND	131	75-125	1	20	Z	RC-G
Arsenic	0.212	0.005	mg/L	0.200	0.005	103	75-125	2	20		RC-G
Selenium	0.207	0.005	mg/L	0.200	ND	102	75-125	0.5	20		RC-G
Thallium	0.194	0.001	mg/L	0.200	ND	97	75-125	1	20		RC-G
Batch B2H2424 - EPA 3005A											
Blank (B2H2424-BLK1)											
Calcium	ND	0.050	mg/L								RC-G
LCS (B2H2424-BS1)											
Calcium	0.52	0.050	mg/L	0.500		105	80-120				RC-G
Matrix Spike (B2H2424-MS1)	**Source: 22H1276-25**										
Calcium	44	0.25	mg/L	2.50	53	NR	75-125			S4	RC-G
Matrix Spike (B2H2424-MS2)	**Source: 22H1276-26**										
Calcium	1100	25	mg/L	250	990	45	75-125			S4	RC-G
Matrix Spike Dup (B2H2424-MSD1)	**Source: 22H1276-25**										
Calcium	45	0.25	mg/L	2.50	53	NR	75-125	2	20	S3	RC-G

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Total Metals
Quality Control Summary

Parameter	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flags	Lab
Batch B2H2424 - EPA 3005A											
Matrix Spike Dup (B2H2424-MSD2)	**Source: 22H1276-26**										
Calcium	1500	25	mg/L	250	990	199	75-125	30	20	P4, S4	RC-G

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Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Sample Preparation Data

Parameter	Batch	Sample ID	Prepared	Analyst
EPA 3005A ICP Digestion				
EPA 3005A	B2H2183	22H1276-01	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-02	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-03	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-04	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-05	08/25/2022 11:22	KTH
EPA 3005A	B2H2214	22H1276-05RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H2183	22H1276-06	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-07	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-08	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-09	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-10	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-11	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-12	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-13	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-14	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-15	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-16	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-17	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-18	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-19	08/25/2022 11:22	KTH
EPA 3005A	B2H2183	22H1276-20	08/25/2022 11:22	KTH
EPA 3005A	B2H2259	22H1276-21	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-21	08/31/2022 14:30	EDM
EPA 3005A	B2H2214	22H1276-21RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H2259	22H1276-22	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-22	08/31/2022 14:30	EDM
EPA 3005A	B2H2214	22H1276-22RE1	08/28/2022 11:00	EDM
EPA 3005A	B2H2259	22H1276-23	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-23	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-24	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-24	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-25	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-25	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-26	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-26	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-27	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-27	08/31/2022 14:30	EDM

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EPA 3005A	B2H2259	22H1276-28	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-28	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-29	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-29	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-30	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-30	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-31	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-31	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-32	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-32	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-33	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-33	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-34	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-34	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-35	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-35	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-36	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-36	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-37	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-37	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-38	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-38	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-39	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-39	08/31/2022 14:30	EDM
EPA 3005A	B2H2259	22H1276-40	08/26/2022 12:33	EDM
EPA 3005A	B2H2424	22H1276-40	08/31/2022 14:30	EDM
EPA 3005A	B2H2214	22H1276-41	08/28/2022 11:00	EDM
EPA 3005A	B2H2214	22H1276-42	08/28/2022 11:00	EDM
EPA 3005A	B2H2302	22H1276-43	08/29/2022 11:05	EDM
EPA 3005A	B2H2302	22H1276-44	08/29/2022 11:05	EDM
EPA 3005A	B2H2214	22H1276-45	08/28/2022 11:00	EDM
EPA 3005A ICPMS Digestion				
EPA 3005A Mod	B2H2325	22H1276-41	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2325	22H1276-42	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2327	22H1276-43	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2327	22H1276-44	08/29/2022 16:00	EDM
EPA 3005A Mod	B2H2327	22H1276-45	08/29/2022 16:00	EDM

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Rogers & Callcott ENVIRONMENTAL

Santee Cooper		Project:	Ground Water
1 Riverwood Dr.		Work Order:	22H1276
Moncks Corner, SC 29461		Reported:	09/16/22 12:28

Data Qualifiers and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not reported
RPD	Relative Percent Difference
P4	Estimated value - the sample / duplicate or matrix spike / spike duplicate results exceeded the calibration range. The RPD was not evaluated against the control limits.
S1	The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
S3	Estimated value - the spike result exceeded the calibration range. The spike recovery was not evaluated against the control limits.
S4	The spike was diluted out due to the sample concentration. The spike recovery was not evaluated against the control limits.
Z	The matrix spike and/or matrix spike duplicate was not within the control limits - failed high. There are no detections in the sample.

Laboratory Reference:

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

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22H1276

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com **Date Results Needed by:** ___/___/___ **Project/Task/Unit #:** 125915 / JM02.08.681.3 / 36500 **Rerun request for any flagged QC** (Yes) No

Analysis Group

	Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS - SEE BELOW			
-01	AF38157	WAP-2	7/6/22	1251	DEW BM	1	P	G	GW	2	SEE ATTACHED SHEET	X			
-02	61	WAP-6	7/11/22	1255							FOR RLS. AND METHOD.				
-03	63	WAP-8	7/12/22	1153											
-04	65	WAP-10	7/13/22	1322											
-05	66	WAP-10 DUP	"	1327											
-06	64	WAP-9	"	1434											
-07	60	WAP-5	7/14/22	1354											
-08	67	WAP-11	7/18/22	1106											
-09	58	WAP-3	7/18/22	1201											
-10	59	WAP-4	"	1522	"	"	"	"	"	"		"			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	35594	8/22/22	1500	FedEx			
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
		08/24/22	0940	KJR		8/24/22	0940
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: VAB
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☑ Cu	☑ Sb
☑ Al	☐ Fe	☑ Se
☑ As	☐ K	☐ Sn
☑ B	☑ Li	☐ Sr
☑ Ba	☑ Mg	☐ Ti
☑ Be	☐ Mn	☑ Tl
☑ Ca	☑ Mo	☐ V
☑ Cd	☑ Na	☑ Zn
☑ Co	☑ Ni	☐ Hg
☑ Cr	☑ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil
☐ As, Cd, Cr, Ni, Pb
☐ Hgt
☐ TS
☐ OTHER

TRK# 8153 6791 4828

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

22H1276

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125916 / JM02.09.681.1 / 36500

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: TOTAL METALS -SEE BELOW			
-11	AF38190	WBW-1	7/6/22	1023	DEW BM	1	P	G	GW	2	SEE ATTACHED SHEET FOR RLs + METHOD.	X			
-12	56	WAP-1	〃	1137	〃	〃	〃	〃	〃	〃		〃			
-13	68	WAP-12	〃	1406	〃	〃	〃	〃	〃	〃		〃			
-14 -04	KAB 8/24/22 69	WAP-12 DUP	〃	1411	〃	〃	〃	〃	〃	〃		〃			
-15	84	WAP-22	7/7/22	1344	DEW RJ	〃	〃	〃	〃	〃		〃			
-16 -05	KAB 8/24/22 87	WAP-25	7/11/22	1030	DEW BM	〃	〃	〃	〃	〃		〃			
-17	88	WAP-26	〃	1114	〃	〃	〃	〃	〃	〃		〃			
-18	89	WAP-26 DUP	〃	1146	〃	〃	〃	〃	〃	〃		〃			
-19	62	WAP-7	7/13/22	1000	〃	〃	〃	〃	〃	〃		〃			
-20	KAB 8/24/22														

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	35594	8/22/22	1500				
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
FedEx		08/24		KJA		08/24	0941 0944
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: KAB
Correct pH: Yes No
Preservative Lot#: KJA 08/24/22
Date/Time/Init for preservative:

METALS (all)

☐ Ag	☑ Cu	☑ Sb
☑ Al	☑ Fe	☑ Se
☑ As	☑ K	☐ Sn
☑ B	☑ Li	☐ Sr
☑ Ba	☑ Mg	☐ Ti
☑ Be	☐ Mn	☑ Tl
☑ Ca	☑ Mo	☐ V
☑ Cd	☑ Na	☑ Zn
☑ Co	☑ Ni	☐ Hg
☑ Cr	☑ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Perm. Oil Quer.
% Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil
TAN/TBN/PCB
Hg
FN
OTHER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

22H1276

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 8 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com **Date Results Needed by:** ___/___/___ **Project/Task/Unit #:** 125915 / JM02.09.G01.1 / 36500 **Rerun request for any flagged QC** (Yes) No

Analysis Group

	Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS SEE BELOW			
-20	AF38185	WAP-23	7/13/22	1225	DEW BM	1	P	G	GW	2	SEE SHEET FOR RL's	X			
-21	86	WAP-24	↓	1531							METHOD				
-22	83	WAP-21	7/14/22	1045											
-23	77	WAP-16	↓	1248											
-24	70	WAP-13	7/18/22	1312											
25	76	WAP-15	↓	1430	↓										
26	71	WAP-14	7/20/22	1412	DEW PJ										
-27	72	WAP-14 DUP	↓	1417	↓	↓	↓	↓	↓	↓		↓			

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[signature]	35594	8/22/22	1530	FedEx			
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
FedEx		08/24	0940	[signature]		08/24	0940
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 **Initial:** KAB
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☒ Cu	☒ Sb
☒ Al	☒ Fe	☐ Se
☒ As	☒ K	☐ Sn
☒ B	☒ Li	☐ Sr
☒ Ba	☒ Mg	☐ Ti
☒ Be	☐ Mn	☒ Tl
☒ Ca	☒ Mo	☐ V
☒ Cd	☒ Na	☒ Zn
☒ Co	☒ Ni	☐ Hg
☒ Cr	☒ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
Used Oil
☐ Flashpoint
☐ Metals in oil
☐ As, Cd, Cr, Ni, Pb (Hg)
☐ TN
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

22H1276

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

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: TOTAL METALS -SEE BELOW			
-28	AF38173	WAP-14A	7/20/22	1100	DEW DJ	1	P	G GW	GW	2	SEE SHEET FOR RLS + METHOD.	X			
-29	74	14B		1220											
-30	75	14C		1317											
-31	82	WAP-20	7/28/22	1100	DEW	1	P	C	GW						

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[illegible]	35594	8/22/22	1530	FedEx			
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
FedEx		08/24	0910	[illegible]		08/24	0910
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 Initial: KMB
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☑ Cu	☑ Sb
☑ Al	☑ Fe	☑ Se
☑ As	☑ K	☐ Sn
☑ B	☑ Li	☐ Sr
☑ Ba	☑ Mg	☐ Ti
☑ Be	☐ Mn	☑ Tl
☑ Ca	☑ Mo	☐ V
☑ Cd	☑ Na	☑ Zn
☑ Co	☑ Ni	☐ Hg
☑ Cr	☑ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
% Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals (Cu, Cd, Cr, Pb, Ag)
TN
GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

22H1274

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santeecooper.com & sibrown@santeecooper.com

Chain of Custody

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.601.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

	Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS -SEE BELOW			
-32	AF38199	WLF-A2-2	7/17/22	1137	DEW DJ	1	P	G	GW	2	SEE SHEET FOR RLs	X			
-33	98	WLF-A2-1		1237							+ METHOD.				
-34	80	WAP-18		1443											
-35	93	WLF-A1-2	7/11/22	1338	DEW BM										
-36	94	-3		1441											
-37	95	-4		1535											
-38	96	-4 DUP		1540											
-39	91	WBW-A1-1	7/12/22	1044											
-40	97	WLF-A1-5		1358											
-41	92	-1		1455											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	35594	8/22/22	1500	FedEx			
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
FedEx		08/24	0940	[signature]		08/24	0940
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 **Initial:** KAB
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☒ Cu	☒ Sb
☒ Al	☒ Fe	☒ Se
☒ As	☒ K	☐ Sn
☒ B	☒ Li	☐ Sr
☒ Ba	☒ Mg	☐ Ti
☒ Be	☐ Mn	☒ Tl
☒ Ca	☒ Mo	☐ V
☒ Cd	☒ Na	☒ Zn
☒ Co	☒ Ni	☐ Hg
☒ Cr	☒ Pb	☐ CrVI

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

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

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity ($CaSO_4$)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
% Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil
(As, Cd, Cr, Ni, Pb)
Hg
TN
GOEUR

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

22H1276

Contract Lab Info: ROGERS Contract Lab Due Date (Lab Only): 9 / 6 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper

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

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC (Yes) No

Analysis Group

	Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS			
-42	AF38178	WAP-17	7/12/22	1235	DEW BM	1	P	G	GW	2	SEE SHEET FOR RLS + METHOD.	X			
-43	79	⊥ 17 DUP	⊥	1240											
-44	81	WAP-19	7/13/22	1108											
-45	200	WLF-A2-6	7/14/22	1150											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	8/22/22	1500	FedEx			
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
FedEx		08/24	0940	KAB		8/24	0940
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): 23.4 **Initial:** KAB
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☑ Cu	☑ Sb
☑ Al	☑ Fe	☑ Se
☑ As	☑ K	☐ Sn
☑ B	☑ Li	☐ Sr
☑ Ba	☑ Mg	☐ Ti
☑ Be	☐ Mn	☑ Tl
☑ Ca	☑ Mo	☐ V
☑ Cd	☑ Na	☑ Zn
☑ Co	☑ Ni	☐ Hg
☑ Cr	☑ Pb	☐ CrVI

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ % Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As, Cd, Cr, Ni, Pb, Hg)
☐ EA
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum ICP	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
~~Arsenic Dissolved~~	~~ug/L~~	---	---
Barium 6010 ICP	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron 6010 ICP	ug/L	---	10 to 15
Cadmium 6010 ICP	ug/L	5	0.5
Calcium 6010 ICP	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper 6010 ICP	mg/L	1	---
Iron 6010 ICP	ug/L	300	---
Lead 6010 ICP	ug/L	15	1
Lithium 6010 ICP	ug/L	40	5
Magnesium 6010 ICP	ug/L	---	---
~~Mercury~~	~~ug/L~~	~~2~~	~~0.2~~
Molybdenum 6010 ICP	ug/L	100	5
Nickel 6010 ICP	ug/L	---	---
Potassium 6010 ICP	mg/L	---	---
Selenium	ug/L	50	5
Sodium 6010 ICP	mg/L	---	---
Thallium	ug/L	2	1
Zinc 6010 ICP	ug/L	5000	---

(if needed = ICPMS)

Rogers & Callcott
Engineering | Environmental | Laboratory

Sample Receipt Verification

Client: Santee Cooper | Date Received: 8/24/22 | Work Order: 22H01276

Carrier Name: FedEx | Other: | Tracking Number: 8153 6791 4828

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

If in-house preservation used – record Lot #			
HCL		H_3PO_4	
H_2SO_4		NaOH	
HNO_3		Other	

Comments:

Were non-conformance issues noted at sample receipt? No

Non-Conformance issue other than noted above:

Revised July 2014

Completed by: KAB

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

August 08, 2022

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

Re: ABS Lab Analytical
Work Order: 585771

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 12, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

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: 585771 GEL Work Order: 585771

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID: AF38184
Sample ID: 585771001
Matrix: Ground Water
Collect Date: 07-JUL-22 13:44
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.93	+/-2.02	3.03	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		9.97	+/-2.20			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		6.04	+/-0.857	0.297	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID: AF38190
Sample ID: 585771002
Matrix: Ground Water
Collect Date: 06-JUL-22 10:23
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.79	+/-1.54	1.98	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.39	+/-1.57			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.596	+/-0.284	0.333	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			56.3	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID:	AF38156	Project:	SOOP00119
Sample ID:	585771003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	06-JUL-22 11:37		
Receive Date:	12-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.17	+/-1.74	2.62	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.04	+/-1.81			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.87	+/-0.479	0.323	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			60.1	(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: August 8, 2022

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

Client Sample ID: AF38168
Sample ID: 585771004
Matrix: Ground Water
Collect Date: 06-JUL-22 14:06
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.85	+/-1.55	2.28	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.26	+/-1.60			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.41	+/-0.361	0.244	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			57.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID: AF38169
Sample ID: 585771005
Matrix: Ground Water
Collect Date: 06-JUL-22 14:11
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.98	+/-1.59	2.30	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.12	+/-1.63			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.14	+/-0.343	0.198	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			55.9	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID: AF38199
Sample ID: 585771006
Matrix: Ground Water
Collect Date: 07-JUL-22 11:37
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.589	+/-1.50	2.70	3.00	pCi/L			JXC9	08/02/22	1130	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.15	+/-1.52			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.562	+/-0.283	0.330	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			53.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID:	AF38198	Project:	SOOP00119
Sample ID:	585771007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	07-JUL-22 12:37		
Receive Date:	12-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.35	+/-1.20	1.51	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.65	+/-1.25			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.29	+/-0.371	0.275	1.00	pCi/L			LXP1	08/02/22	1052	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.8	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID: AF38180
Sample ID: 585771008
Matrix: Ground Water
Collect Date: 07-JUL-22 14:43
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.18	+/-1.28	1.81	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.91	+/-1.31			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.732	+/-0.298	0.224	1.00	pCi/L			LXP1	08/02/22	1124	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			92	(15%-125%)

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 8, 2022

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

Client Sample ID: AF38157
Sample ID: 585771009
Matrix: Ground Water
Collect Date: 06-JUL-22 12:51
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.34	+/-1.00	1.59	3.00	pCi/L			JXC9	08/02/22	1003	2289016	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.04	+/-1.09			pCi/L		1	TON1	08/05/22	1043	2289015	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.70	+/-0.422	0.277	1.00	pCi/L			LXP1	08/02/22	1124	2288998	3

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			93.8	(15%-125%)

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

Column headers are defined as follows:

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

QC Summary

Report Date: August 8, 2022

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

Contact: **Ms. Jeanette Gilmetti**

Workorder: **585771**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch 2289016											
QC1205137966 585771001 DUP											
Radium-228		3.93		3.58	pCi/L	9.32		(0% - 100%)	JXC9	08/02/22	10:04
Uncertainty		+/-2.02		+/-1.39							
QC1205137967 LCS											
Radium-228	44.8			41.8	pCi/L		93.4	(75%-125%)		08/02/22	10:04
Uncertainty				+/-3.08							
QC1205137965 MB											
Radium-228			U	0.898	pCi/L					08/02/22	10:04
Uncertainty				+/-0.791							
Rad Ra-226											
Batch 2288998											
QC1205137937 585771001 DUP											
Radium-226		6.04		7.24	pCi/L	17.9		(0%-20%)	LXP1	08/02/22	11:24
Uncertainty		+/-0.857		+/-0.851							
QC1205137939 LCS											
Radium-226	26.5			21.5	pCi/L		81.1	(75%-125%)		08/02/22	11:24
Uncertainty				+/-1.51							
QC1205137936 MB											
Radium-226			U	0.208	pCi/L					08/02/22	11:24
Uncertainty				+/-0.226							
QC1205137938 585771001 MS											
Radium-226	129	6.04		120	pCi/L		88.1	(75%-125%)		08/02/22	11:24
Uncertainty		+/-0.857		+/-7.89							

Notes:

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

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: 585771

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

H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 585771

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2289015

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

GEL Sample ID#	Client Sample Identification
585771001	AF38184
585771002	AF38190
585771003	AF38156
585771004	AF38168
585771005	AF38169
585771006	AF38199
585771007	AF38198
585771008	AF38180
585771009	AF38157

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: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2289016

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

GEL Sample ID#	Client Sample Identification
585771001	AF38184
585771002	AF38190
585771003	AF38156
585771004	AF38168
585771005	AF38169
585771006	AF38199
585771007	AF38198
585771008	AF38180
585771009	AF38157
1205137965	Method Blank (MB)
1205137966	585771001(AF38184) Sample Duplicate (DUP)

1205137967	Laboratory Control Sample (LCS)

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

Data Summary:

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

Technical Information

Recounts
Sample 585771006 (AF38199) was recounted due to high MDC. 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: 2288998

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

GEL Sample ID#	Client Sample Identification
585771001	AF38184
585771002	AF38190
585771003	AF38156
585771004	AF38168
585771005	AF38169
585771006	AF38199
585771007	AF38198
585771008	AF38180
585771009	AF38157
1205137936	Method Blank (MB)
1205137937	585771001(AF38184) Sample Duplicate (DUP)
1205137938	585771001(AF38184) Matrix Spike (MS)
1205137939	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, 1205137938 (AF38184MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

RAD - 20 BD

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 20 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

585771-RAD
585768-Hg

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC.	Hg	
AF38184	WAP-22	7/7/22	1344	DEW DJ	3	P	G	GW	2		2	X	1	
AF38190	WBW-1	7/6/22	1023	"	"	"	"	"	"		"	"	"	
AF38156	WAP-1	"	1137	"	"	"	"	"	"		"	"	"	
AF38168	WAP-12	7/6/22	1406	"	"	"	"	"	"		"	"	"	
AF38169	WAP-12 DUP	"	1411	"	"	"	"	"	"		"	"	"	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJBrown	35594	7/12/22	1055	R. Smith	GEL	7/12/22	1055
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
R. Smith		7/12/22	1527	JRL	GEL	7/12/22	1527
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

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

☐ **METALS (all)**

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

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

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

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

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

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ **Trans. Oil Qual.**
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ **GOFER**

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code 1=4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 20 BD

Contract Lab Info: GEL *Contract Lab Due Date (Lab Only):* 7 / 20 / 22 *Send report to* lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

585771-RAD
585768-Hg

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

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

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38199	WLF-A2-2	7/7/22	1137	DEW DJ	3	P	G	GW	2		2	X	1	
AF38198	WLF-A2-1	"	1237	"	"	"	"	"	"		"	"	"	
AF38180	WAP-18	"	1443	"	"	"	"	"	"		"	"	"	
AF38157	WAP-2	7/6/22	1251	"	"	"	"	"	"		"	"	"	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/12/22	1055	R. Smith	GEL	7/12/22	1055
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
R. Smith		7/12/22	1527	[signature]	GEL	7/12/22	1527
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TP/TPO4
- ☐ NH3-N
- ☐ F
- ☐ Cl
- ☐ NO2
- ☐ Br
- ☐ NO3
- ☐ SO4

MISC.
- ☐ BTEX
- ☐ Napthalene
- ☐ THM/HAA
- ☐ VOC
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

Gypsum
- ☐ **Wallboard Gypsum(*all below*)**
  - ☐ AIM
  - ☐ TOC
  - ☐ Total metals
  - ☐ Soluble Metals
  - ☐ Purity (CaSO4)
  - ☐ % Moisture
  - ☐ Sulfites
  - ☐ pH
  - ☐ Chlorides
  - ☐ Particle Size
- ☐ Sulfur

Coal
- ☐ **Ultimate**
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
  - ☐ BTUs
  - ☐ Volatile Matter
  - ☐ CHN
- **Other Tests:**
  - ☐ XRF Scan
  - ☐ HGI
  - ☐ Fineness
  - ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ **Trans. Oil Qual.**
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ **Used Oil**
  - ☐ Flashpoint
  - ☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
  - ☐ TX
- ☐ **GOFER**

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative Code: 1=4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

SR

Client: SSCP	**SDG/AR/COC/Work Order:** 585771\ 585768
Received By: MVH	**Date Received:** 07/12/2022
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 **CPM / mR/Hr** **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			X	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 22
4	Daily check performed and passed on IR temperature gun?	X			**Temperature Device Serial #:** IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			X	
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SLW Date 7/14/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 08 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

July 20, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 585768

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 12, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

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: 585768 GEL Work Order: 585768

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38184
Sample ID: 585768001
Matrix: Ground Water
Collect Date: 07-JUL-22 13:44
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1145	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38190
Sample ID: 585768002
Matrix: Ground Water
Collect Date: 06-JUL-22 10:23
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1147	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38156
Sample ID: 585768003
Matrix: Ground Water
Collect Date: 06-JUL-22 11:37
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1148	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38168
Sample ID: 585768004
Matrix: Ground Water
Collect Date: 06-JUL-22 14:06
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1150	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38169
Sample ID: 585768005
Matrix: Ground Water
Collect Date: 06-JUL-22 14:11
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1152	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38199
Sample ID: 585768006
Matrix: Ground Water
Collect Date: 07-JUL-22 11:37
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1154	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38198
Sample ID: 585768007
Matrix: Ground Water
Collect Date: 07-JUL-22 12:37
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1159	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38180
Sample ID: 585768008
Matrix: Ground Water
Collect Date: 07-JUL-22 14:43
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1201	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 20, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38157
Sample ID: 585768009
Matrix: Ground Water
Collect Date: 06-JUL-22 12:51
Receive Date: 12-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/14/22	1202	2288960	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/13/22	1401	2288958

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: July 20, 2022

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 585768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2288960											
QC1205137840 583678006 DUP											
Mercury	U	ND	U	ND	ug/L	N/A			JP2	07/14/22	11:12
QC1205137839 LCS											
Mercury	2.00			2.05	ug/L		103	(80%-120%)		07/14/22	11:09
QC1205137838 MB											
Mercury			U	ND	ug/L					07/14/22	11:07
QC1205137841 583678006 MS											
Mercury	2.00 U	ND		2.00	ug/L		99.7	(75%-125%)		07/14/22	11:14
QC1205137842 583678006 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		07/14/22	11:15

Notes:

The Qualifiers in this report are defined as follows:

<	Result is less than value reported
>	Result is greater than value reported
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

QC Summary

Workorder: 585768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Santee Cooper
SDG #: 585768

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2288960

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2288958

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
585768001	AF38184
585768002	AF38190
585768003	AF38156
585768004	AF38168
585768005	AF38169
585768006	AF38199
585768007	AF38198
585768008	AF38180
585768009	AF38157
1205137838	Method Blank (MB)**CVAA**
1205137839	Laboratory Control Sample (LCS)
1205137842	583678006(NonSDGL) Serial Dilution (SD)
1205137840	583678006(NonSDGD) Sample Duplicate (DUP)
1205137841	583678006(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 BD

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 20 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

585771-RAD
585768-Hg

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.GP1.1 / 36500

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: RAD 226/228	TOTAL RAD CALC.	Hg	
AF38184	WAP-22	7/7/22	1344	DEW DJ	3	P	G	GW	2		2	X	1	
AF38190	WBW-1	7/6/22	1023											
AF38156	WAP-1	1	1137											
AF38168	WAP-12	7/6/22	1406											
AF38169	WAP-12 DUP	1	1411	1	1	1	1	1	1		1	1	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
JBrown	35594	7/12/22	1055	R. Smith	GEL	7/12/22	1055
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
R. Smith		7/12/22	1527	JR	GEL	7/12/22	1527
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ **Wallboard Gypsum(*all below*)**
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ **Ultimate**
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ **GOFER**

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative codes: 1=HOC 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 20 BD

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 20 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

585771-RAD
585768-Hg

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: LCWILLIA@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38199	WLF-A2-2	7/7/22	1137	DEW DJ	3	P	G	GW	2		2	x	1	
AF38198	WLF-A2-1	"	1237	"	"	"	"	"	"		"	"	"	
AF38180	WAP-18	"	1443	"	"	"	"	"	"		"	"	"	
AF38157	WAP-2	7/6/22	1251	"	"	"	"	"	"		"	"	"	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/12/22	1055	R. Smith	GEL	7/12/22	1055
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
R. Smith		7/12/22	1527	[signature]	GEL	7/12/22	1527
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative codes: 1=None 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM SR

Client: SSCP	**SDG/AR/COC/Work Order:** 585771 \ 585768
Received By: MVH	**Date Received:** 07/12/2022
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 22
4	Daily check performed and passed on IR temperature gun?	X			**Temperature Device Serial #:** IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			X	
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials BLW Date 7/14/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 20 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

August 01, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 587122

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 22, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

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: 587122 GEL Work Order: 587122

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38171
Sample ID: 587122001
Matrix: Ground Water
Collect Date: 20-JUL-22 14:12
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1021	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38172
Sample ID: 587122002
Matrix: Ground Water
Collect Date: 20-JUL-22 14:17
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1022	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38173
Sample ID: 587122003
Matrix: Ground Water
Collect Date: 20-JUL-22 11:00
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1028	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38174
Sample ID: 587122004
Matrix: Ground Water
Collect Date: 20-JUL-22 12:20
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1029	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38175
Sample ID: 587122005
Matrix: Ground Water
Collect Date: 20-JUL-22 13:17
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1031	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38170
Sample ID: 587122006
Matrix: Ground Water
Collect Date: 18-JUL-22 13:12
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1033	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38176
Sample ID: 587122007
Matrix: Ground Water
Collect Date: 18-JUL-22 14:30
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1035	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38183
Sample ID: 587122008
Matrix: Ground Water
Collect Date: 14-JUL-22 10:45
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1036	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38177
Sample ID: 587122009
Matrix: Ground Water
Collect Date: 14-JUL-22 12:48
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1038	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38158
Sample ID: 587122010
Matrix: Ground Water
Collect Date: 18-JUL-22 12:01
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1040	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38159
Sample ID: 587122011
Matrix: Ground Water
Collect Date: 18-JUL-22 15:22
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1042	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 1, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38200
Sample ID: 587122012
Matrix: Ground Water
Collect Date: 14-JUL-22 11:50
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/26/22	1043	2293904	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/25/22	1231	2293901

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: August 1, 2022

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: **Ms. Jeanette Gilmetti**

Workorder: **587122**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2293904										
QC1205147129 585466001 DUP										
Mercury	U	ND	U	ND	ug/L	N/A			JP2	07/26/22 09:58
QC1205147128 LCS										
Mercury	2.00			2.12	ug/L		106	(80%-120%)		07/26/22 09:55
QC1205147127 MB										
Mercury			U	ND	ug/L					07/26/22 09:53
QC1205147130 585466001 MS										
Mercury	2.00 U	ND		2.14	ug/L		107	(75%-125%)		07/26/22 10:00
QC1205147131 585466001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		07/26/22 10:02

Notes:

The Qualifiers in this report are defined as follows:

<	Result is less than value reported
>	Result is greater than value reported
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

QC Summary

Workorder: 587122

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Santee Cooper
SDG #: 587122

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2293904

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2293901

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
587122001	AF38171
587122002	AF38172
587122003	AF38173
587122004	AF38174
587122005	AF38175
587122006	AF38170
587122007	AF38176
587122008	AF38183
587122009	AF38177
587122010	AF38158
587122011	AF38159
587122012	AF38200
1205147127	Method Blank (MB)**CVAA**
1205147128	Laboratory Control Sample (LCS)
1205147131	585466001(NonSDGL) Serial Dilution (SD)
1205147129	585466001(NonSDGD) Sample Duplicate (DUP)
1205147130	585466001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

587122/587123

Customer Email/Report Recipient: LCWILLIA @santeecooper.com **Date Results Needed by:** ___/___/___ **Project/Task/Unit #:** 125915 / JM02.68.GP1.3 / 36500 **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: RAD 226/228	TOTAL RAD CALC	Hg	
AF38158	WAP-3	7/18/22	1201	DEW/BM	3	P	G	GW	2	Hg-7470 RL= 0.200 PPB	2	x	1	
AF38159	WAP-4	1	1522	1	3	1	1	1	1		2	x	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/22/22	1105	M. [signature]	GEL	7/22/22	1105
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, S-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper

Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

587122/587123

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G01.1 / 36500

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38200	WLF-A2-6	7/14/22	1150	DEW/BM	3	G	G	GW	2	Hg-7470 RL=0.200 PPB	2	X	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/22/22	1105	M. [signature]	GEL	7/22/22	1105
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)

TEMP (°C):_____ **Initial:**_____

Correct pH: Yes No

Preservative Lot#:

Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
- ☐ TOC
- ☐ DOC
- ☐ TP/TPO4
- ☐ NH3-N
- ☐ F
- ☐ Cl
- ☐ NO2
- ☐ Br
- ☐ NO3
- ☐ SO4

MISC.
- ☐ BTEX
- ☐ Napthalene
- ☐ THM/HAA
- ☐ VOC
- ☐ Oil & Grease
- ☐ E. Coli
- ☐ Total Coliform
- ☐ pH
- ☐ Dissolved As
- ☐ Dissolved Fe
- ☐ Rad 226
- ☐ Rad 228
- ☐ PCB

Gypsum
- ☐ Wallboard Gypsum(*all below*)
  - ☐ AIM
  - ☐ TOC
  - ☐ Total metals
  - ☐ Soluble Metals
  - ☐ Purity (CaSO4)
  - ☐ % Moisture
  - ☐ Sulfites
  - ☐ pH
  - ☐ Chlorides
  - ☐ Particle Size
- ☐ Sulfur

Coal
- ☐ Ultimate
  - ☐ % Moisture
  - ☐ Ash
  - ☐ Sulfur
  - ☐ BTUs
  - ☐ Volatile Matter
  - ☐ CHN

Other Tests:
- ☐ XRF Scan
- ☐ HGI
- ☐ Fineness
- ☐ Particulate Matter

Flyash
- ☐ Ammonia
- ☐ LOI
- ☐ % Carbon
- ☐ Mineral Analysis
- ☐ Sieve
- ☐ % Moisture

NPDES
- ☐ Oil & Grease
- ☐ As
- ☐ TSS

Oil
- ☐ Trans. Oil Qual.
  - ☐ %Moisture
  - ☐ Color
  - ☐ Acidity
  - ☐ Dielectric Strength
  - ☐ IFT
  - ☐ Dissolved Gases
- ☐ Used Oil
  - ☐ Flashpoint
  - ☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
  - ☐ TX
- ☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)

Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

587122/587123

Customer Email/Report Recipient: LCWILLIA@santeecooper.com Date Results Needed by: ___/___/___ Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500 Rerun request for any flagged QC: Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38171	WAP-14	7/20/22	1412	DEW/DJ	3	P	G	GW	2	Hg-7470 RL=0.200 PPB	2	X	1	
AF38172	WAP-14 DUP	1	1417	1	3	1	1	1	1		1	1	1	
AF38173	WAP-14A	1	1100	1	1	1	1	1	1		1	1	1	
AF38174	WAP-14B	1	1220	1	1	1	1	1	1		1	1	1	
AF38175	WAP-14C	1	1317	1	1	1	1	1	1		1	1	1	
AF38170	WAP-13	7/18/22	1312	DEW/BM	1	1	1	1	1		1	1	1	
AF38176	WAP-15	1	1430	1	1	1	1	1	1		1	1	1	
AF38183	WAP-21	7/14/22	1045	1	1	1	1	1	1		1	1	1	
AF38177	WAP-16	1	1248	1	1	1	1	1	1		1	1	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Signature	35594	7/22/22	1105	M. Stevens	GEL	7/22/22	1105
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

J.R

Client: SOD	**SDG/AR/COC/Work Order:** 587125 / 7120 / 7122 / 7123
Received By: S.P	**Date Received:** 7/23/12
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			X	Preservation Method: Wet Ice Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius TEMP: 20
4	Daily check performed and passed on IR temperature gun?	X			**Temperature Device Serial #:** IR2-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	X			
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials MM Date 7/27/12 Page 1 of 1

List of current GEL Certifications as of 01 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

August 19, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 587123

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 22, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

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: 587123 GEL Work Order: 587123

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 19, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38171
Sample ID: 587123001
Matrix: Ground Water
Collect Date: 20-JUL-22 14:42
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.28	+/-1.30	1.93	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.92	+/-1.33			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.645	+/-0.269	0.206	1.00	pCi/L			LXP1	08/10/22	1022	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.4	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 19, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38172	Project:	SOOP00119
Sample ID:	587123002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	20-JUL-22 14:47		
Receive Date:	22-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.23	+/-0.922	1.40	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.06	+/-0.988			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.831	+/-0.354	0.354	1.00	pCi/L			LXP1	08/10/22	1022	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38173
Sample ID: 587123003
Matrix: Ground Water
Collect Date: 20-JUL-22 11:00
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.472	+/-1.35	2.60	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.58	+/-1.42			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.58	+/-0.438	0.233	1.00	pCi/L			LXP1	08/10/22	1022	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			65.9	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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: AF38174
Sample ID: 587123004
Matrix: Ground Water
Collect Date: 20-JUL-22 12:20
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.68	+/-1.36	1.97	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.55	+/-1.49			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.87	+/-0.609	0.252	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.2	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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: AF38175
Sample ID: 587123005
Matrix: Ground Water
Collect Date: 20-JUL-22 13:17
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.649	+/-1.35	2.37	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.95	+/-1.44			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.31	+/-0.511	0.269	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			66.8	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

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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: AF38170
Sample ID: 587123006
Matrix: Ground Water
Collect Date: 18-JUL-22 13:12
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.51	+/-1.47	2.27	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.91	+/-1.54			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.40	+/-0.456	0.401	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38176	Project:	SOOP00119
Sample ID:	587123007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	18-JUL-22 14:30		
Receive Date:	22-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.526	+/-0.898	1.57	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.82	+/-1.04			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.29	+/-0.521	0.317	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82.9	(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
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: AF38183
Sample ID: 587123008
Matrix: Ground Water
Collect Date: 14-JUL-22 10:45
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.728	+/-1.10	1.90	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.02	+/-1.14			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.296	+/-0.284	0.453	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			81.8	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 19, 2022

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: AF38177
Sample ID: 587123009
Matrix: Ground Water
Collect Date: 14-JUL-22 12:48
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		3.45	+/-1.34	1.82	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		5.25	+/-1.43			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.79	+/-0.495	0.408	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			82	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 19, 2022

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: AF38158
Sample ID: 587123010
Matrix: Ground Water
Collect Date: 18-JUL-22 12:01
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.07	+/-1.30	2.20	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.75	+/-1.37			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.68	+/-0.415	0.198	1.00	pCi/L			LXP1	08/10/22	1055	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			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
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: August 19, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38159
Sample ID: 587123011
Matrix: Ground Water
Collect Date: 18-JUL-22 15:22
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.26	+/-1.34	2.24	3.00	pCi/L			JXC9	08/18/22	0917	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.29	+/-1.40			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.03	+/-0.391	0.328	1.00	pCi/L			LXP1	08/10/22	1128	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			79.2	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: August 19, 2022

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: AF38200
Sample ID: 587123012
Matrix: Ground Water
Collect Date: 14-JUL-22 11:50
Receive Date: 22-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.32	+/-1.13	1.59	3.00	pCi/L			JXC9	08/18/22	0918	2293717	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.32	+/-1.18			pCi/L		1	NXL1	08/18/22	1336	2293716	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.999	+/-0.340	0.219	1.00	pCi/L			LXP1	08/10/22	1128	2293712	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			78.6	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: August 19, 2022

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: **Ms. Jeanette Gilmetti**

Workorder: **587123**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2293717										
QC1205146718 587123001 DUP										
Radium-228		2.28		1.92	pCi/L	17		(0% - 100%)	JXC9	08/18/22 09:16
	Uncertainty	+/-1.30		+/-1.11						
QC1205146719 LCS										
Radium-228	44.8			48.8	pCi/L		109	(75%-125%)		08/18/22 09:16
	Uncertainty			+/-3.59						
QC1205146717 MB										
Radium-228			U	-0.0347	pCi/L					08/18/22 09:16
	Uncertainty			+/-1.21						
Rad Ra-226										
Batch 2293712										
QC1205146709 LCS										
Radium-226	26.0			22.8	pCi/L		87.7	(75%-125%)	LXP1	08/10/22 11:28
	Uncertainty			+/-1.67						
QC1205152969 LCSD										
Radium-226	26.0			22.4	pCi/L	2.07	85.9	(0%-20%)		08/10/22 11:58
	Uncertainty			+/-1.66						
QC1205146706 MB										
Radium-226				0.408	pCi/L					08/10/22 11:28
	Uncertainty			+/-0.232						

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

**	Analyte is a Tracer compound
<	Result is less than value reported
>	Result is greater than value reported
BD	Results are either below the MDC or tracer recovery is low
FA	Failed analysis.
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated

QC Summary

Workorder: 587123

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 587123

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2293716

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
587123001	AF38171
587123002	AF38172
587123003	AF38173
587123004	AF38174
587123005	AF38175
587123006	AF38170
587123007	AF38176
587123008	AF38183
587123009	AF38177
587123010	AF38158
587123011	AF38159
587123012	AF38200

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: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2293717

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
587123001	AF38171
587123002	AF38172
587123003	AF38173
587123004	AF38174
587123005	AF38175
587123006	AF38170
587123007	AF38176
587123008	AF38183

587123009	AF38177
587123010	AF38158
587123011	AF38159
587123012	AF38200
1205146717	Method Blank (MB)
1205146718	587123001(AF38171) Sample Duplicate (DUP)
1205146719	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: 2293712

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
587123001	AF38171
587123002	AF38172
587123003	AF38173
587123004	AF38174
587123005	AF38175
587123006	AF38170
587123007	AF38176
587123008	AF38183
587123009	AF38177
587123010	AF38158
587123011	AF38159
587123012	AF38200
1205146706	Method Blank (MB)
1205146709	Laboratory Control Sample (LCS)
1205152969	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
1205146706 (MB)	Radium-226	Result: 0.408 pCi/L > MDA: 0.260 pCi/L <= RDL: 1.00 pCi/L

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper

Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

587122/587123

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G01.3 / 36500

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38158	WAP-3	7/18/22	1201	DEW/BM	3	P	G	GW	2	Hg-7470 RL= 0.200 PPB	2	x	1	
AF38159	WAP-4	1	1522	1	3	1	1	1	1		2	x	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/22/22	1105	M. [signature]	GEL	7/22/22	1105
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

587122/587123

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G01.1 / 36500

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38200	WLF-A2-6	7/14/22	1150	DEW/BM	3	G	G	GW	2	Hg-7470 RL=0.200 PPB	2	X	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/22/22	1105	M. [signature]	GEL	7/22/22	1105
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper

Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone: (843)761-8000 Ext. 5148
Fax: (843)761-4175

587122/587123

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC Yes No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38171	WAP-14	7/20/22	1412	DEW/DJ	3	P	G	GW	2	Hg - 7470 RL= 0.200 PPB	2	X	1	
AF38172	WAP-14 DUP	1	1417	1	3	1								
AF38173	WAP-14A		1100											
AF38174	WAP-14B		1220											
AF38175	WAP-14C	1	1317	1	1	1	1	1	1					
AF38170	WAP-13	7/18/22	1312	DEW/BM										
AF38176	WAP-15	1	1430	1										
AF38183	WAP-21	7/14/22	1045											
AF38177	WAP-16	1	1248	1	1	1	1	1	1		1	1	1	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/22/22	1105	M. [signature]	GEL	7/22/22	1105
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

J.R

Client: SOD	**SDG/AR/COC/Work Order:** 587125 / 7120 / 7122 / 7123
Received By: S.P	**Date Received:** 7/23/12
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			X	Preservation Method: Wet Ice Ice Packs Dry ice (None) Other: *all temperatures are recorded in Celsius TEMP: 20
4	Daily check performed and passed on IR temperature gun?	X			**Temperature Device Serial #:** IR2-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	X			
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials _____ Date 7/27/12 Page 1 of 1

List of current GEL Certifications as of 19 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-2
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

July 25, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 586276

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 15, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 586276 GEL Work Order: 586276

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J See case narrative for an explanation

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38185
Sample ID: 586276001
Matrix: Ground Water
Collect Date: 13-JUL-22 12:25
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1007	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38186
Sample ID: 586276002
Matrix: Ground Water
Collect Date: 13-JUL-22 15:31
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1008	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38162
Sample ID: 586276003
Matrix: Ground Water
Collect Date: 13-JUL-22 10:00
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1010	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38187
Sample ID: 586276004
Matrix: Ground Water
Collect Date: 11-JUL-22 10:30
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1015	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38188
Sample ID: 586276005
Matrix: Ground Water
Collect Date: 11-JUL-22 11:41
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1017	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38189
Sample ID: 586276006
Matrix: Ground Water
Collect Date: 11-JUL-22 11:46
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1019	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38165
Sample ID: 586276007
Matrix: Ground Water
Collect Date: 13-JUL-22 13:22
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1020	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38166
Sample ID: 586276008
Matrix: Ground Water
Collect Date: 13-JUL-22 13:27
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1022	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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: AF38164
Sample ID: 586276009
Matrix: Ground Water
Collect Date: 13-JUL-22 14:34
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1024	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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: AF38181
Sample ID: 586276010
Matrix: Ground Water
Collect Date: 13-JUL-22 11:08
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1026	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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: AF38191
Sample ID: 586276011
Matrix: Ground Water
Collect Date: 12-JUL-22 10:44
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/21/22	1015	2291773	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/20/22	1204	2291768

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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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: AF38197
Sample ID: 586276012
Matrix: Ground Water
Collect Date: 12-JUL-22 13:58
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1027	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38192
Sample ID: 586276013
Matrix: Ground Water
Collect Date: 12-JUL-22 14:55
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1029	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38193
Sample ID: 586276014
Matrix: Ground Water
Collect Date: 11-JUL-22 13:38
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1031	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38194
Sample ID: 586276015
Matrix: Ground Water
Collect Date: 11-JUL-22 14:41
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1036	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: July 25, 2022

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: AF38195
Sample ID: 586276016
Matrix: Ground Water
Collect Date: 11-JUL-22 15:35
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1038	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: July 25, 2022

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: AF38196
Sample ID: 586276017
Matrix: Ground Water
Collect Date: 11-JUL-22 15:40
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1040	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38178
Sample ID: 586276018
Matrix: Ground Water
Collect Date: 12-JUL-22 12:35
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1041	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: July 25, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38179
Sample ID: 586276019
Matrix: Ground Water
Collect Date: 12-JUL-22 12:40
Receive Date: 15-JUL-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0670	0.200	ug/L	1.00	1	JP2	07/19/22	1043	2290693	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	07/18/22	1350	2290688

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: July 25, 2022

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: **Ms. Jeanette Gilmetti**

Workorder: **586276**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury														
Batch 2290693														
QC1205141031	586020001	DUP												
Mercury					0.448		0.460	ug/L	2.64 ^		(+/-0.200)	JP2	07/19/22	10:00
QC1205141030		LCS												
Mercury			2.00				2.05	ug/L		103	(80%-120%)		07/19/22	09:56
QC1205141029		MB												
Mercury						U	ND	ug/L					07/19/22	09:55
QC1205141032	586020001	MS												
Mercury			2.00		0.448		2.41	ug/L		98.1	(75%-125%)		07/19/22	10:02
QC1205141033	586020001	SDILT												
Mercury					0.448	J	0.0830	ug/L	7.37		(0%-10%)		07/19/22	10:03
Batch 2291773														
QC1205143343	585226001	DUP												
Mercury				U	ND	U	ND	ug/L	N/A			JP2	07/21/22	09:49
QC1205143342		LCS												
Mercury			2.00				2.19	ug/L		110	(80%-120%)		07/21/22	09:45
QC1205143341		MB												
Mercury						U	ND	ug/L					07/21/22	09:44
QC1205143344	585226001	MS												
Mercury			2.00	U	ND		2.18	ug/L		109	(75%-125%)		07/21/22	09:51
QC1205143345	585226001	SDILT												
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		07/21/22	09:52

QC Summary

Workorder: 586276

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

Notes:

The Qualifiers in this report are defined as follows:

<	Result is less than value reported
>	Result is greater than value reported
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Santee Cooper
SDG #: 586276

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2290693

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2290688

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
586276001	AF38185
586276002	AF38186
586276003	AF38162
586276004	AF38187
586276005	AF38188
586276006	AF38189
586276007	AF38165
586276008	AF38166
586276009	AF38164
586276010	AF38181
586276012	AF38197
586276013	AF38192
586276014	AF38193
586276015	AF38194
586276016	AF38195
586276017	AF38196
586276018	AF38178
586276019	AF38179
1205141029	Method Blank (MB)**CVAA**
1205141030	Laboratory Control Sample (LCS)
1205141033	586020001(NonSDGL) Serial Dilution (SD)
1205141031	586020001(NonSDGD) Sample Duplicate (DUP)
1205141032	586020001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2291773

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2291768

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
586276011	AF38191
1205143341	Method Blank (MB)**CVAA**
1205143342	Laboratory Control Sample (LCS)
1205143345	585226001(NonSDGL) Serial Dilution (SD)
1205143343	585226001(NonSDGD) Sample Duplicate (DUP)
1205143344	585226001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

586277
586276

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: LCWILLIA@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

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: RAD 226/228	TOTAL RAD CALC.	Hg	
AF38185	WAP-23	7/13/22	1225	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1	
AF38186	WAP-24	〃	1531	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38162	WAP-7	〃	1000	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38187	WAP-25	7/11/22	1030	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38188	WAP-26	〃	1141	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38189	WAP-26 DUP	〃	1146	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJBrown	35594	7/15/22	1130	R. Smith	GEL	7/15/22	1130
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
K. Sahl		7/15/22	1645	M. Thomas		7-15-22	1645
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ **Wallboard Gypsum(*all below*)**
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ **Ultimate**
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ **Trans. Oil Qual.**
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-Gypsum, Gypsum-FGD, FA-fly ash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

586277
586276

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G01.3 / 365cc

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: RAD 226/228	TOTAL RAD CALC.	Hg	
AF38165	WAP-10	7/13/22	1322	DEW BM	3	P G	G	GW	2	Hg-7470 RL<0.200 ug/L	2	X	1	
AF38166	WAP-10 DUP	"	1327	"	"	"	"	"	"		"	"	"	
AF38164	WAP-9	"	1434	"	"	"	"	"	"		"	"	"	
~~AF38163~~	~~WAP-8~~	~~7/12/22~~	1153	"	"	"	"	"	"	SJB	"	"	"	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/15/22	1130	K. Smith	GEL	7/15/22	1130
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
K. Smith		7/15/22	1645	M. Stone		7:15:22	1645
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-Coal, FA-fly ash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): RAD - 20 DAYS 7 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

586277
586276

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 12915 / JM02.08.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC	Hg	
AF38181	WAP-19	7/13/22	1108	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1	
AF38191	WBW-A1-1	7/12/22	1044											
AF38197	WLF-A1-5		1358											
AF38192	WLF-A1-1		1455											
AF38193	WLF-A1-2	7/11/22	1338											
AF38194	WLF-A1-3		1441											
AF38195	WLF-A1-4		1535											
AF38196	WLF-A1-4 DUP		1540											
AF38178	WAP-17	7/12/22	1235											
AF38179	WAP-17 DUP		1240											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	35594	7/15/22	1130	[signature]	GEL	7/15/22	1130
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]		7/15/22	1645	[signature]		7-15-22	1645
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ **Initial:**_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

SDG/AR/COC/Work Order: 586275/586281/586277/586276

Client: SOOP

Date Received: 7-15-22

Received By: MLS

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Carrier and Tracking Number

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		/	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		/	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		/	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		/	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		/	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	/			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		/		Preservation Method: Wet Ice Ice Packs Dry Ice (None) Other: TEMP: 20 *all temperatures are recorded in Celsius
4 Daily check performed and passed on IR temperature gun?	/			Temperature Device Serial #: IR-22 Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	/			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	/			Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?			/	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8 Samples received within holding time?	/			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	/			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	/			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	/			Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	/			
13 COC form is properly signed in relinquished/received sections?	/			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SW Date 7/18/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 25 July 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

September 01, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 589538

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 15, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

Julie Robinson
Project Manager

Purchase Order: 398684
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

SOOP001 Santee Cooper

Client SDG: 589538 GEL Work Order: 589538

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38185	Project:	SOOP00119
Sample ID:	589538001	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 12:25		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	2.14	+/-1.65	2.62	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		4.19	+/-1.73			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.05	+/-0.516	0.449	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			57.3	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38186	Project:	SOOP00119
Sample ID:	589538002	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 15:31		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.120	+/-0.780	1.55	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.01	+/-0.868			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.01	+/-0.381	0.427	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.4	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38162	Project:	SOOP00119
Sample ID:	589538003	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 10:00		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.34	+/-1.38	2.30	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.84	+/-1.47			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.50	+/-0.496	0.500	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			72.6	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38187	Project:	SOOP00119
Sample ID:	589538004	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 10:30		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.67	+/-1.34	2.15	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.84	+/-1.39			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.18	+/-0.366	0.289	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.6	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38188	Project:	SOOP00119
Sample ID:	589538005	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 11:41		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.47	+/-1.10	1.72	3.00	pCi/L			JXC9	08/30/22	1202	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.07	+/-1.18			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.60	+/-0.423	0.215	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.2	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38189	Project:	SOOP00119
Sample ID:	589538006	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 11:46		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.769	+/-1.15	1.98	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.76	+/-1.20			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.991	+/-0.352	0.330	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.7	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38165	Project:	SOOP00119
Sample ID:	589538007	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 13:22		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	-0.544	+/-1.45	2.76	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.10	+/-1.51			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.10	+/-0.439	0.249	1.00	pCi/L			LXP1	08/09/22	0901	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.1	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38166	Project:	SOOP00119
Sample ID:	589538008	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 13:27		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.54	+/-1.48	2.43	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.70	+/-1.56			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.17	+/-0.504	0.227	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			63.7	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38164	Project:	SOOP00119
Sample ID:	589538009	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 14:34		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.672	+/-1.55	2.72	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.20	+/-1.57			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.525	+/-0.290	0.382	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			66.2	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38181	Project:	SOOP00119
Sample ID:	589538010	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	13-JUL-22 11:08		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.46	+/-1.26	2.05	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		1.94	+/-1.31			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.479	+/-0.332	0.484	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38191	Project:	SOOP00119
Sample ID:	589538011	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	12-JUL-22 10:44		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.975	+/-1.23	2.08	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.10	+/-1.32			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		2.12	+/-0.474	0.251	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			76.8	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38197	Project:	SOOP00119
Sample ID:	589538012	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	12-JUL-22 13:58		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.477	+/-1.46	2.59	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.816	+/-1.48			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.339	+/-0.255	0.375	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74.3	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38192	Project:	SOOP00119
Sample ID:	589538013	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	12-JUL-22 14:55		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.572	+/-1.34	2.36	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.762	+/-1.36			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.189	+/-0.254	0.437	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.6	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38193	Project:	SOOP00119
Sample ID:	589538014	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 13:38		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.91	+/-1.19	1.81	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.80	+/-1.23			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.885	+/-0.312	0.272	1.00	pCi/L			LXP1	08/09/22	0933	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			74	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38194	Project:	SOOP00119
Sample ID:	589538015	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 14:41		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	1.52	+/-1.21	1.93	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.49	+/-1.26			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.963	+/-0.370	0.343	1.00	pCi/L			LXP1	08/09/22	1007	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			75.2	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38195	Project:	SOOP00119
Sample ID:	589538016	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 15:35		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		2.39	+/-1.24	1.77	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.88	+/-1.27			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.493	+/-0.274	0.337	1.00	pCi/L			LXP1	08/09/22	1007	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			68.8	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38196	Project:	SOOP00119
Sample ID:	589538017	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	11-JUL-22 15:40		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	0.604	+/-0.922	1.60	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		0.982	+/-0.965			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226	U	0.378	+/-0.285	0.418	1.00	pCi/L			LXP1	08/09/22	1007	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			73.7	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38178	Project:	SOOP00119
Sample ID:	589538018	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	12-JUL-22 12:35		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228		1.93	+/-1.16	1.73	3.00	pCi/L			JXC9	08/30/22	1203	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		2.97	+/-1.21			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		1.04	+/-0.332	0.242	1.00	pCi/L			LXP1	08/09/22	1007	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			71.5	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 1, 2022

Company :	Santee Cooper
Address :	P.O. Box 2946101 OCO3 Moncks Corner, South Carolina 29461
Contact:	Ms. Jeanette Gilmetti
Project:	ABS Lab Analytical

Client Sample ID:	AF38179	Project:	SOOP00119
Sample ID:	589538019	Client ID:	SOOP001
Matrix:	Ground Water		
Collect Date:	12-JUL-22 12:40		
Receive Date:	15-JUL-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Ra228, Liquid "As Received"													
Radium-228	U	2.40	+/-1.57	2.46	3.00	pCi/L			JXC9	08/30/22	1204	2303555	1
Radium-226+Radium-228 Calculation "See Parent Products"													
Radium-226+228 Sum		3.09	+/-1.60			pCi/L			NXL1	09/01/22	0836	2306992	2
Rad Radium-226													
Lucas Cell, Ra226, Liquid "As Received"													
Radium-226		0.691	+/-0.330	0.407	1.00	pCi/L			LXP1	08/09/22	1007	2306991	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 904.0/SW846 9320 Modified	
2	Calculation	
3	EPA 903.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC, Ra228, Liquid "As Received"			70.8	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 1, 2022

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: **Ms. Jeanette Gilmetti**

Workorder: **589538**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch 2303555											
QC1205165059 589538002 DUP											
Radium-228	U	-0.120	U	0.892	pCi/L	N/A		N/A	JXC9	08/30/22	12:02
	Uncertainty	+/-0.780		+/-1.30							
QC1205165060 LCS											
Radium-228	44.7			42.8	pCi/L		95.8	(75%-125%)		08/30/22	12:02
	Uncertainty			+/-3.41							
QC1205165058 MB											
Radium-228			U	-0.632	pCi/L					08/30/22	12:02
	Uncertainty			+/-0.815							
Rad Ra-226											
Batch 2306991											
QC1205171938 589538001 DUP											
Radium-226		2.05		2.08	pCi/L	1.09		(0%-20%)	LXP1	08/09/22	10:07
	Uncertainty	+/-0.516		+/-0.464							
QC1205171940 LCS											
Radium-226	26.5			23.4	pCi/L		88.3	(75%-125%)		08/09/22	10:39
	Uncertainty			+/-1.50							
QC1205171937 MB											
Radium-226			U	0.196	pCi/L					08/09/22	10:07
	Uncertainty			+/-0.226							
QC1205171939 589538001 MS											
Radium-226	132	2.05		102	pCi/L		75.5	(75%-125%)		08/09/22	10:39
	Uncertainty	+/-0.516		+/-7.61							

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.

QC Summary

Workorder: 589538

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	REMP Result > MDC/CL and < RDL
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Radiochemistry
Technical Case Narrative
Santee Cooper
SDG #: 589538

Product: **GFPC, Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2303555

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
589538001	AF38185
589538002	AF38186
589538003	AF38162
589538004	AF38187
589538005	AF38188
589538006	AF38189
589538007	AF38165
589538008	AF38166
589538009	AF38164
589538010	AF38181
589538011	AF38191
589538012	AF38197
589538013	AF38192
589538014	AF38193
589538015	AF38194
589538016	AF38195
589538017	AF38196
589538018	AF38178
589538019	AF38179
1205165058	Method Blank (MB)
1205165059	589538002(AF38186) Sample Duplicate (DUP)
1205165060	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2306991

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
589538001	AF38185
589538002	AF38186
589538003	AF38162
589538004	AF38187
589538005	AF38188
589538006	AF38189
589538007	AF38165
589538008	AF38166
589538009	AF38164
589538010	AF38181
589538011	AF38191
589538012	AF38197
589538013	AF38192
589538014	AF38193
589538015	AF38194
589538016	AF38195
589538017	AF38196
589538018	AF38178
589538019	AF38179
1205171937	Method Blank (MB)
1205171938	589538001(AF38185) Sample Duplicate (DUP)
1205171939	589538001(AF38185) Matrix Spike (MS)
1205171940	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205171939 (AF38185MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

586277

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

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: RAD 226/225	TOTAL RAD CALC.	Hg	
AF38185	WAP-23	7/13/22	1225	NEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1	
AF38186	WAP-24	〃	1531	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38162	WAP-7	〃	1000	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38187	WAP-25	7/11/22	1030	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38188	WAP-26	〃	1141	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	
AF38189	WAP-26 DUP	〃	1146	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJBrown	35594	7/15/22	1130	K. Sah	GEL	7/15/22	1130
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
K. Sah		7/15/22	1645	M. Thomas		7-15-22	1645
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TN
GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code 1=4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

586277

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.08.G01.3 / 365cc

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD CALC.	Hg
AF38165	WAP-10	7/13/22	1322	DEW BM	3	P	G	GW	2	Hg-7470 RL<0.200 ug/L	2	X	1
AF38166	WAP-10 DUP	"	1327	"	"	"	"	"	"		"	"	"
AF38164	WAP-9	"	1434	"	"	"	"	"	"		"	"	"
~~AF38163~~	~~WAP-8~~	~~7/12/22~~	1153	"	"	"	"	"	"	SJB	"	"	"

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	7/15/22	1130	K. Smith	GEL	7/15/22	1130
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
K. Smith		7/15/22	1645	M. Stone		7:15:22	1645
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TX
GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

RAD - 20 DAYS

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 7 / 25 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

586277

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 12915 / JM02.08.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	RAD 226/228	TOTAL RAD GA-LC	Hg
AF38181	WAP-19	7/13/22	1108	DEW BM	3	P	G	GW	2	Hg-7470 RL < 0.200 ug/L	2	X	1
AF38191	WBW-A1-1	7/12/22	1044										
AF38197	WLF-A1-5		1358										
AF38192	WLF-A1-1		1455										
AF38193	WLF-A1-2	7/11/22	1338										
AF38194	WLF-A1-3		1441										
AF38195	WLF-A1-4		1535										
AF38196	WLF-A1-4 DUP		1540										
AF38178	WAP-17	7/12/22	1235										
AF38179	WAP-17 DUP		1240										

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
	35594	7/15/22	1130		GEL	7/15/22	1130
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
		7/15/22	1645			7-15-22	1645
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ Initial: _____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TN
GOFER

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, S-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

SDG/AR/COC/Work Order: 586275/586281/586277

Client: SCOP

Date Received: 7.15.22

Received By: MLS

Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Carrier and Tracking Number

Suspected Hazard Information	Yes	No
A)Shipped as a DOT Hazardous?		✓
B) Did the client designate the samples are to be received as radioactive?		✓
C) Did the RSO classify the samples as radioactive?		✓
D) Did the client designate samples are hazardous?		✓
E) Did the RSO identify possible hazards?		✓

*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

Hazard Class Shipped: UN#:

If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___

COC notation or radioactive stickers on containers equal client designation.

Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr

Classified as: Rad 1 Rad 2 Rad 3

COC notation or hazard labels on containers equal client designation.

If D or E is yes, select Hazards below.

PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Wet Ice Ice Packs Dry ice (None) Other: TEMP: 20 *all temperatures are recorded in Celsius
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SLW Date 7/18/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 01 September 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-221296-1
Client Project/Site: 125915/JM02.09.G01.1/36500

For:
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Authorized for release by:
9/30/2022 7:36:40 PM

Jerry Lanier, Project Manager I
(912)250-0281
Jerry.Lanier@et.eurofinsus.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

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Job ID: 680-221296-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-221296-1

Receipt
The samples were received on 9/16/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.0°C

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-221296-1	AF38168	Water	07/06/22 14:06	09/16/22 10:30
680-221296-2	AF38169	Water	07/06/22 14:11	09/16/22 10:30
680-221296-3	AF38170	Water	07/18/22 13:12	09/16/22 10:30
680-221296-4	AF38171	Water	07/20/22 14:12	09/16/22 10:30
680-221296-5	AF38172	Water	07/20/22 14:17	09/16/22 10:30
680-221296-6	AF38173	Water	07/20/22 11:00	09/16/22 10:30
680-221296-7	AF38174	Water	07/20/22 12:20	09/16/22 10:30
680-221296-8	AF38175	Water	07/20/22 13:17	09/16/22 10:30
680-221296-9	AF38176	Water	07/18/22 14:30	09/16/22 10:30
680-221296-10	AF38177	Water	07/14/22 12:48	09/16/22 10:30
680-221296-11	AF38178	Water	07/12/22 12:35	09/16/22 10:30
680-221296-12	AF38179	Water	07/12/22 12:40	09/16/22 10:30
680-221296-13	AF38180	Water	07/07/22 14:43	09/16/22 10:30
680-221296-14	AF38181	Water	07/13/22 11:08	09/16/22 10:30
680-221296-15	AF38182	Water	07/28/22 11:00	09/16/22 10:30
680-221296-16	AF38183	Water	07/14/22 10:45	09/16/22 10:30
680-221296-17	AF38184	Water	07/07/22 13:44	09/16/22 10:30
680-221296-18	AF38185	Water	07/13/22 12:25	09/16/22 10:30
680-221296-19	AF38186	Water	07/13/22 15:31	09/16/22 10:30
680-221296-20	AF38187	Water	07/11/22 10:30	09/16/22 10:30
680-221296-21	AF38188	Water	07/11/22 11:41	09/16/22 10:30
680-221296-22	AF38189	Water	07/11/22 11:46	09/16/22 10:30
680-221296-23	AF38190	Water	07/06/22 10:23	09/16/22 10:30
680-221296-24	AF38191	Water	07/12/22 10:44	09/16/22 10:30
680-221296-25	AF38192	Water	07/12/22 14:55	09/16/22 10:30
680-221296-26	AF38193	Water	07/11/22 13:38	09/16/22 10:30
680-221296-27	AF38194	Water	07/11/22 14:41	09/16/22 10:30
680-221296-28	AF38195	Water	07/11/22 15:35	09/16/22 10:30
680-221296-29	AF38196	Water	07/11/22 15:40	09/16/22 10:30
680-221296-30	AF38197	Water	07/12/22 13:58	09/16/22 10:30
680-221296-31	AF38198	Water	07/07/22 12:37	09/16/22 10:30
680-221296-32	AF38199	Water	07/07/22 11:37	09/16/22 10:30
680-221296-33	AF38200	Water	07/14/22 11:50	09/16/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38168 — Lab Sample ID: 680-221296-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	126000		500		ug/L	1		6010D	Total Recoverable
Iron	2690		100		ug/L	1		6010D	Total Recoverable
Magnesium	18100		500		ug/L	1		6010D	Total Recoverable
Potassium	5890		1000		ug/L	1		6010D	Total Recoverable
Sodium	30500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2830		100		ug/L	1		6020B	Total Recoverable
Barium	22.2		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.14		0.500		ug/L	1		6020B	Total Recoverable
Zinc	22.7		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38169 — Lab Sample ID: 680-221296-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	114000		500		ug/L	1		6010D	Total Recoverable
Iron	2430		100		ug/L	1		6010D	Total Recoverable
Magnesium	16400		500		ug/L	1		6010D	Total Recoverable
Potassium	5210		1000		ug/L	1		6010D	Total Recoverable
Sodium	27600		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2860		100		ug/L	1		6020B	Total Recoverable
Barium	22.5		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.23		0.500		ug/L	1		6020B	Total Recoverable
Zinc	26.7		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38170 — Lab Sample ID: 680-221296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	355000		500		ug/L	1		6010D	Total Recoverable
Iron	50400		100		ug/L	1		6010D	Total Recoverable
Magnesium	24800		500		ug/L	1		6010D	Total Recoverable
Potassium	2270		1000		ug/L	1		6010D	Total Recoverable
Sodium	108000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	5.60		3.00		ug/L	1		6020B	Total Recoverable
Barium	287		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: AF38170 (Continued) — Lab Sample ID: 680-221296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.525		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38171 — Lab Sample ID: 680-221296-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1170000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	29800		500		ug/L	1		6010D	Total Recoverable
Potassium	15700		1000		ug/L	1		6010D	Total Recoverable
Sodium	128000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	17.4		3.00		ug/L	1		6020B	Total Recoverable
Barium	41.6		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38172 — Lab Sample ID: 680-221296-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1230000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	27700		500		ug/L	1		6010D	Total Recoverable
Potassium	14400		1000		ug/L	1		6010D	Total Recoverable
Sodium	118000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	13.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	47.9		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38173 — Lab Sample ID: 680-221296-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	759000		5000		ug/L	10		6010D	Total Recoverable
Magnesium	37100		500		ug/L	1		6010D	Total Recoverable
Potassium	11500		1000		ug/L	1		6010D	Total Recoverable
Sodium	104000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	7.21		3.00		ug/L	1		6020B	Total Recoverable
Barium	90.3		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38174 — Lab Sample ID: 680-221296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	681000		500		ug/L	1		6010D	Total Recoverable
Iron	13200		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38174 (Continued) — Lab Sample ID: 680-221296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	29000		500		ug/L	1		6010D	Total Recoverable
Potassium	6470		1000		ug/L	1		6010D	Total Recoverable
Sodium	96600		2000		ug/L	1		6010D	Total Recoverable
Arsenic	6.29		3.00		ug/L	1		6020B	Total Recoverable
Barium	159		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38175 — Lab Sample ID: 680-221296-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	152000		500		ug/L	1		6010D	Total Recoverable
Iron	6360		100		ug/L	1		6010D	Total Recoverable
Magnesium	7860		500		ug/L	1		6010D	Total Recoverable
Potassium	4770		1000		ug/L	1		6010D	Total Recoverable
Sodium	68800		2000		ug/L	1		6010D	Total Recoverable
Barium	77.6		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38176 — Lab Sample ID: 680-221296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47100		500		ug/L	1		6010D	Total Recoverable
Iron	11700		100		ug/L	1		6010D	Total Recoverable
Magnesium	7760		500		ug/L	1		6010D	Total Recoverable
Potassium	2530		1000		ug/L	1		6010D	Total Recoverable
Sodium	18100		2000		ug/L	1		6010D	Total Recoverable
Arsenic	3.74		3.00		ug/L	1		6020B	Total Recoverable
Barium	147		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.830		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	1.13		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38177 — Lab Sample ID: 680-221296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	182000		500		ug/L	1		6010D	Total Recoverable
Iron	6610		100		ug/L	1		6010D	Total Recoverable
Magnesium	17700		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38177 (Continued)

Lab Sample ID: 680-221296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	10400		1000		ug/L	1		6010D	Total Recoverable
Sodium	111000		2000		ug/L	1		6010D	Total Recoverable
Aluminum	156		100		ug/L	1		6020B	Total Recoverable
Barium	70.2		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38178

Lab Sample ID: 680-221296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	226000		500		ug/L	1		6010D	Total Recoverable
Iron	1550		100		ug/L	1		6010D	Total Recoverable
Magnesium	33600		500		ug/L	1		6010D	Total Recoverable
Molybdenum	28.0		10.0		ug/L	1		6010D	Total Recoverable
Potassium	12700		1000		ug/L	1		6010D	Total Recoverable
Sodium	60900		2000		ug/L	1		6010D	Total Recoverable
Arsenic	86.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	41.0		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38179

Lab Sample ID: 680-221296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	234000		500		ug/L	1		6010D	Total Recoverable
Iron	1540		100		ug/L	1		6010D	Total Recoverable
Magnesium	35200		500		ug/L	1		6010D	Total Recoverable
Molybdenum	29.4		10.0		ug/L	1		6010D	Total Recoverable
Potassium	13400		1000		ug/L	1		6010D	Total Recoverable
Sodium	64500		2000		ug/L	1		6010D	Total Recoverable
Arsenic	78.1		3.00		ug/L	1		6020B	Total Recoverable
Barium	42.3		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38180

Lab Sample ID: 680-221296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	68700		500		ug/L	1		6010D	Total Recoverable
Iron	1110		100		ug/L	1		6010D	Total Recoverable
Magnesium	5140		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38180 (Continued) — Lab Sample ID: 680-221296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	179		10.0		ug/L	1		6010D	Total Recoverable
Potassium	6050		1000		ug/L	1		6010D	Total Recoverable
Sodium	25400		2000		ug/L	1		6010D	Total Recoverable
Aluminum	241		100		ug/L	1		6020B	Total Recoverable
Arsenic	189		3.00		ug/L	1		6020B	Total Recoverable
Barium	76.0		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.07		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38181 — Lab Sample ID: 680-221296-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	316000		500		ug/L	1		6010D	Total Recoverable
Iron	2610		100		ug/L	1		6010D	Total Recoverable
Magnesium	40800		500		ug/L	1		6010D	Total Recoverable
Molybdenum	45.6		10.0		ug/L	1		6010D	Total Recoverable
Potassium	16100		1000		ug/L	1		6010D	Total Recoverable
Sodium	40000		2000		ug/L	1		6010D	Total Recoverable
Aluminum	2050		100		ug/L	1		6020B	Total Recoverable
Arsenic	112		3.00		ug/L	1		6020B	Total Recoverable
Barium	43.7		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	6.02		0.500		ug/L	1		6020B	Total Recoverable
Nickel	6.35		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38182 — Lab Sample ID: 680-221296-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	32400		500		ug/L	1		6010D	Total Recoverable
Iron	72000		100		ug/L	1		6010D	Total Recoverable
Magnesium	10200		500		ug/L	1		6010D	Total Recoverable
Molybdenum	71.8		10.0		ug/L	1		6010D	Total Recoverable
Potassium	4940		1000		ug/L	1		6010D	Total Recoverable
Sodium	27500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	74400		100		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38182 (Continued) — Lab Sample ID: 680-221296-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	141		3.00		ug/L	1		6020B	Total Recoverable
Barium	122		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.690		0.500		ug/L	1		6020B	Total Recoverable
Chromium	93.2	^6+	5.00		ug/L	1		6020B	Total Recoverable
Cobalt	7.46		0.500		ug/L	1		6020B	Total Recoverable
Copper	16.4		5.00		ug/L	1		6020B	Total Recoverable
Lead	62.7		2.50		ug/L	1		6020B	Total Recoverable
Nickel	26.2		5.00		ug/L	1		6020B	Total Recoverable
Selenium	3.98		2.50		ug/L	1		6020B	Total Recoverable
Zinc	60.0		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38183 — Lab Sample ID: 680-221296-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74200		5000		ug/L	1		6010D	Total Recoverable
Iron	1090		1000		ug/L	1		6010D	Total Recoverable
Magnesium	11600		5000		ug/L	1		6010D	Total Recoverable
Aluminum	1660		1000		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38184 — Lab Sample ID: 680-221296-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	435000		500		ug/L	1		6010D	Total Recoverable
Iron	38900		100		ug/L	1		6010D	Total Recoverable
Magnesium	66000		500		ug/L	1		6010D	Total Recoverable
Potassium	24300		1000		ug/L	1		6010D	Total Recoverable
Sodium	128000		2000		ug/L	1		6010D	Total Recoverable
Arsenic	65.9		3.00		ug/L	1		6020B	Total Recoverable
Barium	280		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.635		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38185 — Lab Sample ID: 680-221296-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	218000		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38185 (Continued) — Lab Sample ID: 680-221296-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7720		100		ug/L	1		6010D	Total Recoverable
Magnesium	10400		500		ug/L	1		6010D	Total Recoverable
Potassium	1750		1000		ug/L	1		6010D	Total Recoverable
Sodium	40300		2000		ug/L	1		6010D	Total Recoverable
Barium	107		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38186 — Lab Sample ID: 680-221296-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	99000		500		ug/L	1		6010D	Total Recoverable
Iron	187		100		ug/L	1		6010D	Total Recoverable
Magnesium	7950		500		ug/L	1		6010D	Total Recoverable
Potassium	4510		1000		ug/L	1		6010D	Total Recoverable
Sodium	26200		2000		ug/L	1		6010D	Total Recoverable

Client Sample ID: AF38187 — Lab Sample ID: 680-221296-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	58600		500		ug/L	1		6010D	Total Recoverable
Iron	2920		100		ug/L	1		6010D	Total Recoverable
Magnesium	2010		500		ug/L	1		6010D	Total Recoverable
Potassium	1910		1000		ug/L	1		6010D	Total Recoverable
Sodium	9720		2000		ug/L	1		6010D	Total Recoverable
Barium	9.68		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38188 — Lab Sample ID: 680-221296-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19400		500		ug/L	1		6010D	Total Recoverable
Iron	542		100		ug/L	1		6010D	Total Recoverable
Magnesium	1700		500		ug/L	1		6010D	Total Recoverable
Sodium	3680		2000		ug/L	1		6010D	Total Recoverable
Aluminum	173		100		ug/L	1		6020B	Total Recoverable
Barium	45.8		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38189 — Lab Sample ID: 680-221296-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	20000		500		ug/L	1		6010D	Total Recoverable
Iron	573		100		ug/L	1		6010D	Total Recoverable
Magnesium	1780		500		ug/L	1		6010D	Total Recoverable
Sodium	3870		2000		ug/L	1		6010D	Total Recoverable
Aluminum	155		100		ug/L	1		6020B	Total Recoverable
Barium	39.4		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38190 — Lab Sample ID: 680-221296-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2520		500		ug/L	1		6010D	Total Recoverable
Iron	352		100		ug/L	1		6010D	Total Recoverable
Magnesium	897		500		ug/L	1		6010D	Total Recoverable
Sodium	2670		2000		ug/L	1		6010D	Total Recoverable
Aluminum	963		100		ug/L	1		6020B	Total Recoverable
Barium	38.3		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	3.15		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38191 — Lab Sample ID: 680-221296-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	55900		500		ug/L	1		6010D	Total Recoverable
Iron	3280		100		ug/L	1		6010D	Total Recoverable
Magnesium	2240		500		ug/L	1		6010D	Total Recoverable
Potassium	3170		1000		ug/L	1		6010D	Total Recoverable
Sodium	11500		2000		ug/L	1		6010D	Total Recoverable
Aluminum	985		100		ug/L	1		6020B	Total Recoverable
Barium	113		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38192 — Lab Sample ID: 680-221296-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	337000		500		ug/L	1		6010D	Total Recoverable
Iron	10300		100		ug/L	1		6010D	Total Recoverable
Magnesium	9370		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38192 (Continued)

Lab Sample ID: 680-221296-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4370		1000		ug/L	1		6010D	Total Recoverable
Sodium	9600		2000		ug/L	1		6010D	Total Recoverable
Aluminum	149		100		ug/L	1		6020B	Total Recoverable
Barium	32.7		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38193

Lab Sample ID: 680-221296-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	23800		500		ug/L	1		6010D	Total Recoverable
Iron	2860		100		ug/L	1		6010D	Total Recoverable
Magnesium	655		500		ug/L	1		6010D	Total Recoverable
Aluminum	2250		100		ug/L	1		6020B	Total Recoverable
Barium	51.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.91		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38194

Lab Sample ID: 680-221296-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	17600	F1	500		ug/L	1		6010D	Total Recoverable
Calcium	14600		500		ug/L	1		6010D	Total Recoverable
Iron	477		100		ug/L	1		6010D	Total Recoverable
Iron	399		100		ug/L	1		6010D	Total Recoverable
Sodium	2380		2000		ug/L	1		6010D	Total Recoverable
Sodium	2010		2000		ug/L	1		6010D	Total Recoverable
Aluminum	3180		100		ug/L	1		6020B	Total Recoverable
Arsenic	6.95		3.00		ug/L	1		6020B	Total Recoverable
Barium	32.4		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.885		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38195

Lab Sample ID: 680-221296-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	71200		500		ug/L	1		6010D	Total Recoverable
Iron	2520		100		ug/L	1		6010D	Total Recoverable
Magnesium	1280		500		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38195 (Continued)

Lab Sample ID: 680-221296-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1260		1000		ug/L	1		6010D	Total Recoverable
Sodium	2700		2000		ug/L	1		6010D	Total Recoverable
Aluminum	131		100		ug/L	1		6020B	Total Recoverable
Barium	35.0		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38196

Lab Sample ID: 680-221296-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60400		500		ug/L	1		6010D	Total Recoverable
Iron	2120		100		ug/L	1		6010D	Total Recoverable
Magnesium	1100		500		ug/L	1		6010D	Total Recoverable
Potassium	1060		1000		ug/L	1		6010D	Total Recoverable
Sodium	2310		2000		ug/L	1		6010D	Total Recoverable
Aluminum	165		100		ug/L	1		6020B	Total Recoverable
Barium	42.8		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38197

Lab Sample ID: 680-221296-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	272000		500		ug/L	1		6010D	Total Recoverable
Iron	2870		100		ug/L	1		6010D	Total Recoverable
Magnesium	25900		500		ug/L	1		6010D	Total Recoverable
Potassium	6390		1000		ug/L	1		6010D	Total Recoverable
Sodium	15600		2000		ug/L	1		6010D	Total Recoverable
Barium	39.5		5.00		ug/L	1		6020B	Total Recoverable
Zinc	22.4		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38198

Lab Sample ID: 680-221296-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	95400		500		ug/L	1		6010D	Total Recoverable
Iron	1560		100		ug/L	1		6010D	Total Recoverable
Magnesium	7170		500		ug/L	1		6010D	Total Recoverable
Potassium	4910		1000		ug/L	1		6010D	Total Recoverable
Sodium	21600		2000		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF38198 (Continued)

Lab Sample ID: 680-221296-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	428		100		ug/L	1		6020B	Total Recoverable
Arsenic	106		3.00		ug/L	1		6020B	Total Recoverable
Barium	72.5		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.45		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38199

Lab Sample ID: 680-221296-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	94200		500		ug/L	1		6010D	Total Recoverable
Iron	2670		100		ug/L	1		6010D	Total Recoverable
Magnesium	3430		500		ug/L	1		6010D	Total Recoverable
Potassium	3500		1000		ug/L	1		6010D	Total Recoverable
Sodium	9770		2000		ug/L	1		6010D	Total Recoverable
Arsenic	242		3.00		ug/L	1		6020B	Total Recoverable
Barium	60.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.620		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF38200

Lab Sample ID: 680-221296-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	131000		500		ug/L	1		6010D	Total Recoverable
Iron	448		100		ug/L	1		6010D	Total Recoverable
Magnesium	7380		500		ug/L	1		6010D	Total Recoverable
Potassium	4190		1000		ug/L	1		6010D	Total Recoverable
Sodium	5810		2000		ug/L	1		6010D	Total Recoverable
Arsenic	3.70		3.00		ug/L	1		6020B	Total Recoverable
Barium	36.6		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38168

Date Collected: 07/06/22 14:06
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-1

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	126000		500		ug/L		09/20/22 05:39	09/20/22 15:29	1
Iron	2690		100		ug/L		09/20/22 05:39	09/20/22 15:29	1
Magnesium	18100		500		ug/L		09/20/22 05:39	09/20/22 15:29	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:29	1
Potassium	5890		1000		ug/L		09/20/22 05:39	09/20/22 15:29	1
Sodium	30500		2000		ug/L		09/20/22 05:39	09/20/22 15:29	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2830		100		ug/L		09/20/22 05:39	09/20/22 23:35	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Barium	22.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Cobalt	1.14		0.500		ug/L		09/20/22 05:39	09/20/22 23:35	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:35	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:35	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:35	1
Zinc	22.7		20.0		ug/L		09/20/22 05:39	09/20/22 23:35	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38169

Date Collected: 07/06/22 14:11
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-2

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	114000		500		ug/L		09/20/22 05:39	09/20/22 15:11	1
Iron	2430		100		ug/L		09/20/22 05:39	09/20/22 15:11	1
Magnesium	16400		500		ug/L		09/20/22 05:39	09/20/22 15:11	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:11	1
Potassium	5210		1000		ug/L		09/20/22 05:39	09/20/22 15:11	1
Sodium	27600		2000		ug/L		09/20/22 05:39	09/20/22 15:11	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2860		100		ug/L		09/20/22 05:39	09/20/22 23:07	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Barium	22.5		5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Cobalt	1.23		0.500		ug/L		09/20/22 05:39	09/20/22 23:07	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:07	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:07	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:07	1
Zinc	26.7		20.0		ug/L		09/20/22 05:39	09/20/22 23:07	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38170

Date Collected: 07/18/22 13:12
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-3

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	355000		500		ug/L		09/20/22 05:22	09/20/22 16:24	1
Iron	50400		100		ug/L		09/20/22 05:22	09/20/22 16:24	1
Magnesium	24800		500		ug/L		09/20/22 05:22	09/20/22 16:24	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:24	1
Potassium	2270		1000		ug/L		09/20/22 05:22	09/20/22 16:24	1
Sodium	108000		2000		ug/L		09/20/22 05:22	09/20/22 16:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 20:55	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Arsenic	5.60		3.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Barium	287		5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Cobalt	0.525		0.500		ug/L		09/20/22 05:22	09/20/22 20:55	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:55	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:55	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 20:55	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 20:55	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38171

Date Collected: 07/20/22 14:12
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-4

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1170000		5000		ug/L		09/20/22 05:39	09/21/22 15:27	10
Iron	100	U	100		ug/L		09/20/22 05:39	09/20/22 15:41	1
Magnesium	29800		500		ug/L		09/20/22 05:39	09/20/22 15:41	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:41	1
Potassium	15700		1000		ug/L		09/20/22 05:39	09/20/22 15:41	1
Sodium	128000		2000		ug/L		09/20/22 05:39	09/20/22 15:41	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:54	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Arsenic	17.4		3.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Barium	41.6		5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:54	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:54	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:54	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:54	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:54	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38172

Date Collected: 07/20/22 14:17
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-5

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1230000		5000		ug/L		09/20/22 05:22	09/21/22 15:33	10
Iron	100	U	100		ug/L		09/20/22 05:22	09/20/22 16:54	1
Magnesium	27700		500		ug/L		09/20/22 05:22	09/20/22 16:54	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:54	1
Potassium	14400		1000		ug/L		09/20/22 05:22	09/20/22 16:54	1
Sodium	118000		2000		ug/L		09/20/22 05:22	09/20/22 16:54	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:42	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Arsenic	13.6		3.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Barium	47.9		5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:42	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:42	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:42	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:42	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:42	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38173

Date Collected: 07/20/22 11:00
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-6

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	759000		5000		ug/L		09/20/22 05:22	09/21/22 15:30	10
Iron	100	U	100		ug/L		09/20/22 05:22	09/20/22 16:39	1
Magnesium	37100		500		ug/L		09/20/22 05:22	09/20/22 16:39	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:39	1
Potassium	11500		1000		ug/L		09/20/22 05:22	09/20/22 16:39	1
Sodium	104000		2000		ug/L		09/20/22 05:22	09/20/22 16:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:26	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Arsenic	7.21		3.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Barium	90.3		5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:26	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:26	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:26	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:26	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38174

Date Collected: 07/20/22 12:20
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-7

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	681000		500		ug/L		09/20/22 05:22	09/20/22 16:59	1
Iron	13200		100		ug/L		09/20/22 05:22	09/20/22 16:59	1
Magnesium	29000		500		ug/L		09/20/22 05:22	09/20/22 16:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:59	1
Potassium	6470		1000		ug/L		09/20/22 05:22	09/20/22 16:59	1
Sodium	96600		2000		ug/L		09/20/22 05:22	09/20/22 16:59	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:50	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Arsenic	6.29		3.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Barium	159		5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:50	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:50	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:50	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:50	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:50	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38175

Date Collected: 07/20/22 13:17
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-8

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	152000		500		ug/L		09/20/22 05:39	09/20/22 15:39	1
Iron	6360		100		ug/L		09/20/22 05:39	09/20/22 15:39	1
Magnesium	7860		500		ug/L		09/20/22 05:39	09/20/22 15:39	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:39	1
Potassium	4770		1000		ug/L		09/20/22 05:39	09/20/22 15:39	1
Sodium	68800		2000		ug/L		09/20/22 05:39	09/20/22 15:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:50	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Barium	77.6		5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:50	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:50	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:50	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:50	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:50	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38176

Date Collected: 07/18/22 14:30
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-9

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47100		500		ug/L		09/20/22 05:39	09/20/22 15:57	1
Iron	11700		100		ug/L		09/20/22 05:39	09/20/22 15:57	1
Magnesium	7760		500		ug/L		09/20/22 05:39	09/20/22 15:57	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:57	1
Potassium	2530		1000		ug/L		09/20/22 05:39	09/20/22 15:57	1
Sodium	18100		2000		ug/L		09/20/22 05:39	09/20/22 15:57	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/21/22 00:09	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Arsenic	3.74		3.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Barium	147		5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Beryllium	0.830		0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Cobalt	1.13		0.500		ug/L		09/20/22 05:39	09/21/22 00:09	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:09	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:09	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:09	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:09	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38177

Date Collected: 07/14/22 12:48
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-10

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	182000		500		ug/L		09/20/22 05:39	09/20/22 15:31	1
Iron	6610		100		ug/L		09/20/22 05:39	09/20/22 15:31	1
Magnesium	17700		500		ug/L		09/20/22 05:39	09/20/22 15:31	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:31	1
Potassium	10400		1000		ug/L		09/20/22 05:39	09/20/22 15:31	1
Sodium	111000		2000		ug/L		09/20/22 05:39	09/20/22 15:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	156		100		ug/L		09/20/22 05:39	09/20/22 23:39	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Barium	70.2		5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:39	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:39	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:39	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:39	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38178

Date Collected: 07/12/22 12:35
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-11

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	226000		500		ug/L		09/20/22 05:39	09/20/22 15:54	1
Iron	1550		100		ug/L		09/20/22 05:39	09/20/22 15:54	1
Magnesium	33600		500		ug/L		09/20/22 05:39	09/20/22 15:54	1
Molybdenum	28.0		10.0		ug/L		09/20/22 05:39	09/20/22 15:54	1
Potassium	12700		1000		ug/L		09/20/22 05:39	09/20/22 15:54	1
Sodium	60900		2000		ug/L		09/20/22 05:39	09/20/22 15:54	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/21/22 00:06	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Arsenic	86.6		3.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Barium	41.0		5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:06	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:06	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:06	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:06	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:06	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38179

Date Collected: 07/12/22 12:40
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-12

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	234000		500		ug/L		09/20/22 05:39	09/20/22 15:34	1
Iron	1540		100		ug/L		09/20/22 05:39	09/20/22 15:34	1
Magnesium	35200		500		ug/L		09/20/22 05:39	09/20/22 15:34	1
Molybdenum	29.4		10.0		ug/L		09/20/22 05:39	09/20/22 15:34	1
Potassium	13400		1000		ug/L		09/20/22 05:39	09/20/22 15:34	1
Sodium	64500		2000		ug/L		09/20/22 05:39	09/20/22 15:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:42	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Arsenic	78.1		3.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Barium	42.3		5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:42	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:42	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:42	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:42	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:42	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38180

Date Collected: 07/07/22 14:43
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-13

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68700		500		ug/L		09/20/22 05:39	09/20/22 15:26	1
Iron	1110		100		ug/L		09/20/22 05:39	09/20/22 15:26	1
Magnesium	5140		500		ug/L		09/20/22 05:39	09/20/22 15:26	1
Molybdenum	179		10.0		ug/L		09/20/22 05:39	09/20/22 15:26	1
Potassium	6050		1000		ug/L		09/20/22 05:39	09/20/22 15:26	1
Sodium	25400		2000		ug/L		09/20/22 05:39	09/20/22 15:26	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	241		100		ug/L		09/20/22 05:39	09/20/22 23:23	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Arsenic	189		3.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Barium	76.0		5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Cobalt	2.07		0.500		ug/L		09/20/22 05:39	09/20/22 23:23	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:23	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:23	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:23	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38181

Date Collected: 07/13/22 11:08
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-14

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	316000		500		ug/L		09/20/22 05:39	09/20/22 15:24	1
Iron	2610		100		ug/L		09/20/22 05:39	09/20/22 15:24	1
Magnesium	40800		500		ug/L		09/20/22 05:39	09/20/22 15:24	1
Molybdenum	45.6		10.0		ug/L		09/20/22 05:39	09/20/22 15:24	1
Potassium	16100		1000		ug/L		09/20/22 05:39	09/20/22 15:24	1
Sodium	40000		2000		ug/L		09/20/22 05:39	09/20/22 15:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2050		100		ug/L		09/20/22 05:39	09/20/22 23:19	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Arsenic	112		3.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Barium	43.7		5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Cobalt	6.02		0.500		ug/L		09/20/22 05:39	09/20/22 23:19	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:19	1
Nickel	6.35		5.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:19	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:19	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:19	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38182

Date Collected: 07/28/22 11:00
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-15

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	32400		500		ug/L		09/20/22 05:22	09/20/22 16:29	1
Iron	72000		100		ug/L		09/20/22 05:22	09/20/22 16:29	1
Magnesium	10200		500		ug/L		09/20/22 05:22	09/20/22 16:29	1
Molybdenum	71.8		10.0		ug/L		09/20/22 05:22	09/20/22 16:29	1
Potassium	4940		1000		ug/L		09/20/22 05:22	09/20/22 16:29	1
Sodium	27500		2000		ug/L		09/20/22 05:22	09/20/22 16:29	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	74400		100		ug/L		09/20/22 05:22	09/20/22 21:03	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Arsenic	141		3.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Barium	122		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Beryllium	0.690		0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Chromium	93.2	^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Cobalt	7.46		0.500		ug/L		09/20/22 05:22	09/20/22 21:03	1
Copper	16.4		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Lead	62.7		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Nickel	26.2		5.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Selenium	3.98		2.50		ug/L		09/20/22 05:22	09/20/22 21:03	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:03	1
Zinc	60.0		20.0		ug/L		09/20/22 05:22	09/20/22 21:03	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38183

Date Collected: 07/14/22 10:45
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-16

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	74200		5000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Iron	1090		1000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Magnesium	11600		5000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Molybdenum	100	U	100		ug/L		09/21/22 13:44	09/21/22 18:45	1
Potassium	10000	U	10000		ug/L		09/21/22 13:44	09/21/22 18:45	1
Sodium	20000	U	20000		ug/L		09/21/22 13:44	09/21/22 18:45	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1660		1000		ug/L		09/20/22 10:24	09/22/22 02:15	1
Antimony	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Arsenic	30.0	U	30.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Barium	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Beryllium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Cadmium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Chromium	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Cobalt	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 02:15	1
Copper	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Lead	25.0	U	25.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Nickel	50.0	U	50.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Selenium	25.0	U	25.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Thallium	10.0	U	10.0		ug/L		09/20/22 10:24	09/22/22 02:15	1
Zinc	200	U	200		ug/L		09/20/22 10:24	09/22/22 02:15	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38184

Date Collected: 07/07/22 13:44
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-17

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	435000		500		ug/L		09/20/22 05:22	09/20/22 16:52	1
Iron	38900		100		ug/L		09/20/22 05:22	09/20/22 16:52	1
Magnesium	66000		500		ug/L		09/20/22 05:22	09/20/22 16:52	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:52	1
Potassium	24300		1000		ug/L		09/20/22 05:22	09/20/22 16:52	1
Sodium	128000		2000		ug/L		09/20/22 05:22	09/20/22 16:52	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:38	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Arsenic	65.9		3.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Barium	280		5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Beryllium	0.635		0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:38	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:38	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:38	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:38	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:38	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38185

Date Collected: 07/13/22 12:25
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-18

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	218000		500		ug/L		09/20/22 05:39	09/20/22 15:14	1
Iron	7720		100		ug/L		09/20/22 05:39	09/20/22 15:14	1
Magnesium	10400		500		ug/L		09/20/22 05:39	09/20/22 15:14	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:14	1
Potassium	1750		1000		ug/L		09/20/22 05:39	09/20/22 15:14	1
Sodium	40300		2000		ug/L		09/20/22 05:39	09/20/22 15:14	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 23:11	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Barium	107		5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:11	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:11	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:11	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:11	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:11	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38186

Date Collected: 07/13/22 15:31
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-19

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	99000		500		ug/L		09/20/22 05:22	09/20/22 16:34	1
Iron	187		100		ug/L		09/20/22 05:22	09/20/22 16:34	1
Magnesium	7950		500		ug/L		09/20/22 05:22	09/20/22 16:34	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:34	1
Potassium	4510		1000		ug/L		09/20/22 05:22	09/20/22 16:34	1
Sodium	26200		2000		ug/L		09/20/22 05:22	09/20/22 16:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:11	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:11	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:11	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:11	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:11	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:11	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38187

Date Collected: 07/11/22 10:30
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-20

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58600		500		ug/L		09/20/22 05:22	09/20/22 16:42	1
Iron	2920		100		ug/L		09/20/22 05:22	09/20/22 16:42	1
Magnesium	2010		500		ug/L		09/20/22 05:22	09/20/22 16:42	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:42	1
Potassium	1910		1000		ug/L		09/20/22 05:22	09/20/22 16:42	1
Sodium	9720		2000		ug/L		09/20/22 05:22	09/20/22 16:42	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:30	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Barium	9.68		5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:30	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:30	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:30	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:30	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:30	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38188

Date Collected: 07/11/22 11:41
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-21

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	19400		500		ug/L		09/20/22 05:22	09/20/22 16:44	1
Iron	542		100		ug/L		09/20/22 05:22	09/20/22 16:44	1
Magnesium	1700		500		ug/L		09/20/22 05:22	09/20/22 16:44	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:44	1
Potassium	1000	U	1000		ug/L		09/20/22 05:22	09/20/22 16:44	1
Sodium	3680		2000		ug/L		09/20/22 05:22	09/20/22 16:44	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	173		100		ug/L		09/20/22 05:22	09/20/22 21:34	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Barium	45.8		5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:34	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:34	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:34	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:34	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:34	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38189

Date Collected: 07/11/22 11:46
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-22

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	20000		500		ug/L		09/20/22 05:43	09/20/22 15:59	1
Iron	573		100		ug/L		09/20/22 05:43	09/20/22 15:59	1
Magnesium	1780		500		ug/L		09/20/22 05:43	09/20/22 15:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:43	09/20/22 15:59	1
Potassium	1000	U	1000		ug/L		09/20/22 05:43	09/20/22 15:59	1
Sodium	3870		2000		ug/L		09/20/22 05:43	09/20/22 15:59	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	155		100		ug/L		09/20/22 05:43	09/21/22 00:21	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Barium	39.4		5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:43	09/21/22 00:21	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:43	09/21/22 00:21	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:43	09/21/22 00:21	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:43	09/21/22 00:21	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38190

Date Collected: 07/06/22 10:23
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-23

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2520		500		ug/L		09/20/22 05:39	09/20/22 15:36	1
Iron	352		100		ug/L		09/20/22 05:39	09/20/22 15:36	1
Magnesium	897		500		ug/L		09/20/22 05:39	09/20/22 15:36	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:36	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 15:36	1
Sodium	2670		2000		ug/L		09/20/22 05:39	09/20/22 15:36	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	963		100		ug/L		09/20/22 05:39	09/20/22 23:46	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Barium	38.3		5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Cobalt	3.15		0.500		ug/L		09/20/22 05:39	09/20/22 23:46	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:46	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:46	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:46	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:46	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38191

Date Collected: 07/12/22 10:44
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-24

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	55900		500		ug/L		09/20/22 05:39	09/20/22 15:21	1
Iron	3280		100		ug/L		09/20/22 05:39	09/20/22 15:21	1
Magnesium	2240		500		ug/L		09/20/22 05:39	09/20/22 15:21	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:21	1
Potassium	3170		1000		ug/L		09/20/22 05:39	09/20/22 15:21	1
Sodium	11500		2000		ug/L		09/20/22 05:39	09/20/22 15:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	985		100		ug/L		09/20/22 05:39	09/20/22 23:15	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Barium	113		5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:15	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:15	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:15	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:15	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:15	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38192

Date Collected: 07/12/22 14:55
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-25

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	337000		500		ug/L		09/20/22 05:39	09/20/22 15:44	1
Iron	10300		100		ug/L		09/20/22 05:39	09/20/22 15:44	1
Magnesium	9370		500		ug/L		09/20/22 05:39	09/20/22 15:44	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:44	1
Potassium	4370		1000		ug/L		09/20/22 05:39	09/20/22 15:44	1
Sodium	9600		2000		ug/L		09/20/22 05:39	09/20/22 15:44	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	149		100		ug/L		09/20/22 05:39	09/20/22 23:58	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Barium	32.7		5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 23:58	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:58	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 23:58	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 23:58	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 23:58	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38193

Date Collected: 07/11/22 13:38
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-26

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	23800		500		ug/L		09/20/22 05:22	09/20/22 16:32	1
Iron	2860		100		ug/L		09/20/22 05:22	09/20/22 16:32	1
Magnesium	655		500		ug/L		09/20/22 05:22	09/20/22 16:32	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:32	1
Potassium	1000	U	1000		ug/L		09/20/22 05:22	09/20/22 16:32	1
Sodium	2000	U	2000		ug/L		09/20/22 05:22	09/20/22 16:32	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2250		100		ug/L		09/20/22 05:22	09/20/22 21:07	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Barium	51.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Cobalt	1.91		0.500		ug/L		09/20/22 05:22	09/20/22 21:07	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:07	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:07	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:07	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:07	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38194

Date Collected: 07/11/22 14:41
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-27

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17600	F1	500		ug/L		09/20/22 05:39	09/20/22 15:04	1
Calcium	14600		500		ug/L		09/28/22 09:50	09/29/22 09:40	1
Iron	477		100		ug/L		09/20/22 05:39	09/20/22 15:04	1
Iron	399		100		ug/L		09/28/22 09:50	09/29/22 09:40	1
Magnesium	500	U	500		ug/L		09/20/22 05:39	09/20/22 15:04	1
Magnesium	500	U	500		ug/L		09/28/22 09:50	09/29/22 09:40	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:04	1
Molybdenum	10.0	U	10.0		ug/L		09/28/22 09:50	09/29/22 09:40	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 15:04	1
Potassium	1000	U	1000		ug/L		09/28/22 09:50	09/29/22 09:40	1
Sodium	2380		2000		ug/L		09/20/22 05:39	09/20/22 15:04	1
Sodium	2010		2000		ug/L		09/28/22 09:50	09/29/22 09:40	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3180		100		ug/L		09/20/22 05:39	09/20/22 22:56	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Arsenic	6.95		3.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Barium	32.4		5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Cobalt	0.885		0.500		ug/L		09/20/22 05:39	09/20/22 22:56	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:56	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:56	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 22:56	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 22:56	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38195

Date Collected: 07/11/22 15:35
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-28

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	71200		500		ug/L		09/20/22 05:22	09/20/22 17:04	1
Iron	2520		100		ug/L		09/20/22 05:22	09/20/22 17:04	1
Magnesium	1280		500		ug/L		09/20/22 05:22	09/20/22 17:04	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 17:04	1
Potassium	1260		1000		ug/L		09/20/22 05:22	09/20/22 17:04	1
Sodium	2700		2000		ug/L		09/20/22 05:22	09/20/22 17:04	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	131		100		ug/L		09/20/22 05:22	09/20/22 21:58	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Barium	35.0		5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:58	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:58	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:58	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:58	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:58	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38196

Date Collected: 07/11/22 15:40
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-29

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	60400		500		ug/L		09/20/22 05:22	09/20/22 16:27	1
Iron	2120		100		ug/L		09/20/22 05:22	09/20/22 16:27	1
Magnesium	1100		500		ug/L		09/20/22 05:22	09/20/22 16:27	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:27	1
Potassium	1060		1000		ug/L		09/20/22 05:22	09/20/22 16:27	1
Sodium	2310		2000		ug/L		09/20/22 05:22	09/20/22 16:27	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	165		100		ug/L		09/20/22 05:22	09/20/22 20:59	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Barium	42.8		5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 20:59	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:59	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 20:59	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 20:59	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 20:59	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38197

Date Collected: 07/12/22 13:58
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-30

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	272000		500		ug/L		09/20/22 05:22	09/20/22 16:57	1
Iron	2870		100		ug/L		09/20/22 05:22	09/20/22 16:57	1
Magnesium	25900		500		ug/L		09/20/22 05:22	09/20/22 16:57	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:57	1
Potassium	6390		1000		ug/L		09/20/22 05:22	09/20/22 16:57	1
Sodium	15600		2000		ug/L		09/20/22 05:22	09/20/22 16:57	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:46	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Barium	39.5		5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:46	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:46	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:46	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:46	1
Zinc	22.4		20.0		ug/L		09/20/22 05:22	09/20/22 21:46	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38198

Date Collected: 07/07/22 12:37
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-31

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	95400		500		ug/L		09/20/22 05:39	09/20/22 15:52	1
Iron	1560		100		ug/L		09/20/22 05:39	09/20/22 15:52	1
Magnesium	7170		500		ug/L		09/20/22 05:39	09/20/22 15:52	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 15:52	1
Potassium	4910		1000		ug/L		09/20/22 05:39	09/20/22 15:52	1
Sodium	21600		2000		ug/L		09/20/22 05:39	09/20/22 15:52	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	428		100		ug/L		09/20/22 05:39	09/21/22 00:02	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Arsenic	106		3.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Barium	72.5		5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Cobalt	1.45		0.500		ug/L		09/20/22 05:39	09/21/22 00:02	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:02	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/21/22 00:02	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/21/22 00:02	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/21/22 00:02	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38199

Date Collected: 07/07/22 11:37
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-32

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	94200		500		ug/L		09/20/22 05:22	09/20/22 16:37	1
Iron	2670		100		ug/L		09/20/22 05:22	09/20/22 16:37	1
Magnesium	3430		500		ug/L		09/20/22 05:22	09/20/22 16:37	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 16:37	1
Potassium	3500		1000		ug/L		09/20/22 05:22	09/20/22 16:37	1
Sodium	9770		2000		ug/L		09/20/22 05:22	09/20/22 16:37	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:23	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Arsenic	242		3.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Barium	60.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Cobalt	0.620		0.500		ug/L		09/20/22 05:22	09/20/22 21:23	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:23	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:23	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:23	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:23	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38200

Date Collected: 07/14/22 11:50
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-33

Matrix: Water

Method: 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	131000		500		ug/L		09/20/22 05:22	09/20/22 17:02	1
Iron	448		100		ug/L		09/20/22 05:22	09/20/22 17:02	1
Magnesium	7380		500		ug/L		09/20/22 05:22	09/20/22 17:02	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:22	09/20/22 17:02	1
Potassium	4190		1000		ug/L		09/20/22 05:22	09/20/22 17:02	1
Sodium	5810		2000		ug/L		09/20/22 05:22	09/20/22 17:02	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:22	09/20/22 21:54	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Arsenic	3.70		3.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Barium	36.6		5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:22	09/20/22 21:54	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:54	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:22	09/20/22 21:54	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:22	09/20/22 21:54	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:22	09/20/22 21:54	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-741164/1-A
Matrix: Water
Analysis Batch: 741353

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		09/20/22 05:03	09/20/22 16:02	1
Iron	100	U	100		ug/L		09/20/22 05:03	09/20/22 16:02	1
Magnesium	500	U	500		ug/L		09/20/22 05:03	09/20/22 16:02	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:03	09/20/22 16:02	1
Potassium	1000	U	1000		ug/L		09/20/22 05:03	09/20/22 16:02	1
Sodium	2000	U	2000		ug/L		09/20/22 05:03	09/20/22 16:02	1

Lab Sample ID: LCS 680-741164/2-A
Matrix: Water
Analysis Batch: 741353

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	4657		ug/L		93	80 - 120
Iron	5000	4673		ug/L		93	80 - 120
Magnesium	5010	4559		ug/L		91	80 - 120
Molybdenum	100	94.69		ug/L		95	80 - 120
Potassium	6970	6518		ug/L		94	80 - 120
Sodium	5050	4561		ug/L		90	80 - 120

Lab Sample ID: MB 680-741168/1-A
Matrix: Water
Analysis Batch: 741362

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		09/20/22 05:39	09/20/22 14:59	1
Iron	100	U	100		ug/L		09/20/22 05:39	09/20/22 14:59	1
Magnesium	500	U	500		ug/L		09/20/22 05:39	09/20/22 14:59	1
Molybdenum	10.0	U	10.0		ug/L		09/20/22 05:39	09/20/22 14:59	1
Potassium	1000	U	1000		ug/L		09/20/22 05:39	09/20/22 14:59	1
Sodium	2000	U	2000		ug/L		09/20/22 05:39	09/20/22 14:59	1

Lab Sample ID: LCS 680-741168/2-A
Matrix: Water
Analysis Batch: 741362

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	4439		ug/L		89	80 - 120
Iron	5000	4471		ug/L		89	80 - 120
Magnesium	5010	4398		ug/L		88	80 - 120
Molybdenum	100	91.51		ug/L		92	80 - 120
Potassium	6970	6275		ug/L		90	80 - 120
Sodium	5050	4387		ug/L		87	80 - 120

Lab Sample ID: 680-221296-27 MS
Matrix: Water
Analysis Batch: 741362

Client Sample ID: AF38194
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	17600	F1	5000	21160	F1	ug/L		71	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 680-221296-27 MS
Matrix: Water
Analysis Batch: 741362

Client Sample ID: AF38194
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	477		5000	5014		ug/L		91	75 - 125
Magnesium	500	U	5010	4882		ug/L		88	75 - 125
Molybdenum	10.0	U	100	92.76		ug/L		93	75 - 125
Potassium	1000	U	6970	6946		ug/L		91	75 - 125
Sodium	2380		5050	6698		ug/L		86	75 - 125

Lab Sample ID: 680-221296-27 MSD
Matrix: Water
Analysis Batch: 741362

Client Sample ID: AF38194
Prep Type: Total Recoverable
Prep Batch: 741168

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	17600	F1	5000	20220	F1	ug/L		52	75 - 125	5	20
Iron	477		5000	4786		ug/L		86	75 - 125	5	20
Magnesium	500	U	5010	4683		ug/L		84	75 - 125	4	20
Molybdenum	10.0	U	100	89.00		ug/L		89	75 - 125	4	20
Potassium	1000	U	6970	6638		ug/L		87	75 - 125	5	20
Sodium	2380		5050	6425		ug/L		80	75 - 125	4	20

Lab Sample ID: MB 680-741508/1-A
Matrix: Water
Analysis Batch: 741586

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		09/21/22 13:44	09/21/22 18:29	1
Iron	100	U	100		ug/L		09/21/22 13:44	09/21/22 18:29	1
Magnesium	500	U	500		ug/L		09/21/22 13:44	09/21/22 18:29	1
Molybdenum	10.0	U	10.0		ug/L		09/21/22 13:44	09/21/22 18:29	1
Potassium	1000	U	1000		ug/L		09/21/22 13:44	09/21/22 18:29	1
Sodium	2000	U	2000		ug/L		09/21/22 13:44	09/21/22 18:29	1

Lab Sample ID: LCS 680-741508/2-A
Matrix: Water
Analysis Batch: 741586

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	4999		ug/L		100	80 - 120
Iron	5000	5032		ug/L		101	80 - 120
Magnesium	5010	5082		ug/L		101	80 - 120
Molybdenum	100	99.43		ug/L		99	80 - 120
Potassium	6970	7167		ug/L		103	80 - 120
Sodium	5050	5000		ug/L		99	80 - 120

Lab Sample ID: MB 680-742555/1-A
Matrix: Water
Analysis Batch: 742783

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		09/28/22 09:50	09/29/22 08:50	1
Iron	100	U	100		ug/L		09/28/22 09:50	09/29/22 08:50	1
Magnesium	500	U	500		ug/L		09/28/22 09:50	09/29/22 08:50	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 680-742555/1-A
Matrix: Water
Analysis Batch: 742783

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	10.0	U	10.0		ug/L		09/28/22 09:50	09/29/22 08:50	1
Potassium	1000	U	1000		ug/L		09/28/22 09:50	09/29/22 08:50	1
Sodium	2000	U	2000		ug/L		09/28/22 09:50	09/29/22 08:50	1

Lab Sample ID: LCS 680-742555/2-A
Matrix: Water
Analysis Batch: 742783

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	4727		ug/L		95	80 - 120
Iron	5000	4818		ug/L		96	80 - 120
Magnesium	5010	5028		ug/L		100	80 - 120
Molybdenum	100	91.89		ug/L		92	80 - 120
Potassium	6970	7059		ug/L		101	80 - 120
Sodium	5050	4694		ug/L		93	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-741166/1-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:03	09/20/22 20:36	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:03	09/20/22 20:36	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:03	09/20/22 20:36	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:03	09/20/22 20:36	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:03	09/20/22 20:36	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:03	09/20/22 20:36	1

Lab Sample ID: LCS 680-741166/2-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5623		ug/L		112	80 - 120
Antimony	50.0	56.11		ug/L		112	80 - 120
Arsenic	100	105.2		ug/L		105	80 - 120
Barium	100	103.7		ug/L		104	80 - 120
Beryllium	50.0	51.98		ug/L		104	80 - 120
Cadmium	50.0	56.02		ug/L		112	80 - 120
Chromium	100	113.3	^6+	ug/L		113	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-741166/2-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	50.0	55.31		ug/L		111	80 - 120
Copper	100	120.0		ug/L		120	80 - 120
Lead	505	516.0		ug/L		102	80 - 120
Nickel	99.0	111.2		ug/L		112	80 - 120
Selenium	100	110.0		ug/L		110	80 - 120
Thallium	50.0	52.52		ug/L		105	80 - 120
Zinc	100	109.2		ug/L		109	80 - 120

Lab Sample ID: MB 680-741169/1-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 05:39	09/20/22 22:48	1
Antimony	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Barium	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:48	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:48	1
Chromium	5.00	U ^6+	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 05:39	09/20/22 22:48	1
Copper	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Lead	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:48	1
Nickel	5.00	U	5.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Selenium	2.50	U	2.50		ug/L		09/20/22 05:39	09/20/22 22:48	1
Thallium	1.00	U	1.00		ug/L		09/20/22 05:39	09/20/22 22:48	1
Zinc	20.0	U	20.0		ug/L		09/20/22 05:39	09/20/22 22:48	1

Lab Sample ID: LCS 680-741169/2-A
Matrix: Water
Analysis Batch: 741389

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5260		ug/L		105	80 - 120
Antimony	50.0	52.26		ug/L		105	80 - 120
Arsenic	100	96.83		ug/L		97	80 - 120
Barium	100	96.34		ug/L		96	80 - 120
Beryllium	50.0	47.57		ug/L		95	80 - 120
Cadmium	50.0	52.57		ug/L		105	80 - 120
Chromium	100	105.1	^6+	ug/L		105	80 - 120
Cobalt	50.0	52.87		ug/L		106	80 - 120
Copper	100	112.8		ug/L		113	80 - 120
Lead	505	478.5		ug/L		95	80 - 120
Nickel	99.0	105.6		ug/L		107	80 - 120
Selenium	100	103.8		ug/L		104	80 - 120
Thallium	50.0	49.34		ug/L		99	80 - 120
Zinc	100	103.1		ug/L		103	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-221296-27 MS
Matrix: Water
Analysis Batch: 741389

Client Sample ID: AF38194
Prep Type: Total Recoverable
Prep Batch: 741169

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	3180		5000	7812		ug/L		93	75 - 125
Antimony	5.00	U	50.0	49.36		ug/L		99	75 - 125
Arsenic	6.95		100	103.4		ug/L		96	75 - 125
Barium	32.4		100	125.1		ug/L		93	75 - 125
Beryllium	0.500	U	50.0	44.78		ug/L		89	75 - 125
Cadmium	0.500	U	50.0	51.08		ug/L		102	75 - 125
Chromium	5.00	U ^6+	100	100.3	^6+	ug/L		100	75 - 125
Cobalt	0.885		50.0	53.02		ug/L		104	75 - 125
Copper	5.00	U	100	109.8		ug/L		110	75 - 125
Lead	2.50	U	505	467.1		ug/L		93	75 - 125
Nickel	5.00	U	99.0	103.4		ug/L		104	75 - 125
Selenium	2.50	U	100	99.73		ug/L		100	75 - 125
Thallium	1.00	U	50.0	47.74		ug/L		95	75 - 125
Zinc	20.0	U	100	100.9		ug/L		101	75 - 125

Lab Sample ID: 680-221296-27 MSD
Matrix: Water
Analysis Batch: 741389

Client Sample ID: AF38194
Prep Type: Total Recoverable
Prep Batch: 741169

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	3180		5000	8042		ug/L		97	75 - 125	3	20
Antimony	5.00	U	50.0	50.69		ug/L		101	75 - 125	3	20
Arsenic	6.95		100	102.2		ug/L		95	75 - 125	1	20
Barium	32.4		100	125.3		ug/L		93	75 - 125	0	20
Beryllium	0.500	U	50.0	44.51		ug/L		88	75 - 125	1	20
Cadmium	0.500	U	50.0	52.84		ug/L		106	75 - 125	3	20
Chromium	5.00	U ^6+	100	101.8	^6+	ug/L		102	75 - 125	2	20
Cobalt	0.885		50.0	52.19		ug/L		103	75 - 125	2	20
Copper	5.00	U	100	112.1		ug/L		112	75 - 125	2	20
Lead	2.50	U	505	474.1		ug/L		94	75 - 125	2	20
Nickel	5.00	U	99.0	103.9		ug/L		105	75 - 125	1	20
Selenium	2.50	U	100	98.50		ug/L		98	75 - 125	1	20
Thallium	1.00	U	50.0	48.52		ug/L		97	75 - 125	2	20
Zinc	20.0	U	100	101.8		ug/L		102	75 - 125	1	20

Lab Sample ID: MB 680-741235/1-A
Matrix: Water
Analysis Batch: 741576

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	100	U	100		ug/L		09/20/22 10:24	09/22/22 01:29	1
Antimony	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Arsenic	3.00	U	3.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Barium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Beryllium	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
Cadmium	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
Chromium	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Cobalt	0.500	U	0.500		ug/L		09/20/22 10:24	09/22/22 01:29	1
Copper	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-741235/1-A
Matrix: Water
Analysis Batch: 741576

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.50	U	2.50		ug/L		09/20/22 10:24	09/22/22 01:29	1
Nickel	5.00	U	5.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Selenium	2.50	U	2.50		ug/L		09/20/22 10:24	09/22/22 01:29	1
Thallium	1.00	U	1.00		ug/L		09/20/22 10:24	09/22/22 01:29	1
Zinc	20.0	U	20.0		ug/L		09/20/22 10:24	09/22/22 01:29	1

Lab Sample ID: LCS 680-741235/2-A
Matrix: Water
Analysis Batch: 741576

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	5232		ug/L		105	80 - 120
Antimony	50.0	48.78		ug/L		98	80 - 120
Arsenic	100	97.45		ug/L		97	80 - 120
Barium	100	100.6		ug/L		101	80 - 120
Beryllium	50.0	49.39		ug/L		99	80 - 120
Cadmium	50.0	51.36		ug/L		103	80 - 120
Chromium	100	102.6		ug/L		103	80 - 120
Cobalt	50.0	53.39		ug/L		107	80 - 120
Copper	100	112.7		ug/L		113	80 - 120
Lead	505	493.6		ug/L		98	80 - 120
Nickel	99.0	105.8		ug/L		107	80 - 120
Selenium	100	105.2		ug/L		105	80 - 120
Thallium	50.0	50.37		ug/L		101	80 - 120
Zinc	100	107.5		ug/L		107	80 - 120

Metals

Prep Batch: 741164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	3005A	
680-221296-5	AF38172	Total Recoverable	Water	3005A	
680-221296-6	AF38173	Total Recoverable	Water	3005A	
680-221296-7	AF38174	Total Recoverable	Water	3005A	
680-221296-15	AF38182	Total Recoverable	Water	3005A	
680-221296-17	AF38184	Total Recoverable	Water	3005A	
680-221296-19	AF38186	Total Recoverable	Water	3005A	
680-221296-20	AF38187	Total Recoverable	Water	3005A	
680-221296-21	AF38188	Total Recoverable	Water	3005A	
680-221296-26	AF38193	Total Recoverable	Water	3005A	
680-221296-28	AF38195	Total Recoverable	Water	3005A	
680-221296-29	AF38196	Total Recoverable	Water	3005A	
680-221296-30	AF38197	Total Recoverable	Water	3005A	
680-221296-32	AF38199	Total Recoverable	Water	3005A	
680-221296-33	AF38200	Total Recoverable	Water	3005A	
MB 680-741164/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741164/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 741166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	3005A	
680-221296-5	AF38172	Total Recoverable	Water	3005A	
680-221296-6	AF38173	Total Recoverable	Water	3005A	
680-221296-7	AF38174	Total Recoverable	Water	3005A	
680-221296-15	AF38182	Total Recoverable	Water	3005A	
680-221296-17	AF38184	Total Recoverable	Water	3005A	
680-221296-19	AF38186	Total Recoverable	Water	3005A	
680-221296-20	AF38187	Total Recoverable	Water	3005A	
680-221296-21	AF38188	Total Recoverable	Water	3005A	
680-221296-26	AF38193	Total Recoverable	Water	3005A	
680-221296-28	AF38195	Total Recoverable	Water	3005A	
680-221296-29	AF38196	Total Recoverable	Water	3005A	
680-221296-30	AF38197	Total Recoverable	Water	3005A	
680-221296-32	AF38199	Total Recoverable	Water	3005A	
680-221296-33	AF38200	Total Recoverable	Water	3005A	
MB 680-741166/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741166/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 741168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	3005A	
680-221296-2	AF38169	Total Recoverable	Water	3005A	
680-221296-4	AF38171	Total Recoverable	Water	3005A	
680-221296-8	AF38175	Total Recoverable	Water	3005A	
680-221296-9	AF38176	Total Recoverable	Water	3005A	
680-221296-10	AF38177	Total Recoverable	Water	3005A	
680-221296-11	AF38178	Total Recoverable	Water	3005A	
680-221296-12	AF38179	Total Recoverable	Water	3005A	
680-221296-13	AF38180	Total Recoverable	Water	3005A	
680-221296-14	AF38181	Total Recoverable	Water	3005A	
680-221296-18	AF38185	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 741168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-22	AF38189	Total Recoverable	Water	3005A	
680-221296-23	AF38190	Total Recoverable	Water	3005A	
680-221296-24	AF38191	Total Recoverable	Water	3005A	
680-221296-25	AF38192	Total Recoverable	Water	3005A	
680-221296-27	AF38194	Total Recoverable	Water	3005A	
680-221296-31	AF38198	Total Recoverable	Water	3005A	
MB 680-741168/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741168/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-221296-27 MS	AF38194	Total Recoverable	Water	3005A	
680-221296-27 MSD	AF38194	Total Recoverable	Water	3005A	

Prep Batch: 741169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	3005A	
680-221296-2	AF38169	Total Recoverable	Water	3005A	
680-221296-4	AF38171	Total Recoverable	Water	3005A	
680-221296-8	AF38175	Total Recoverable	Water	3005A	
680-221296-9	AF38176	Total Recoverable	Water	3005A	
680-221296-10	AF38177	Total Recoverable	Water	3005A	
680-221296-11	AF38178	Total Recoverable	Water	3005A	
680-221296-12	AF38179	Total Recoverable	Water	3005A	
680-221296-13	AF38180	Total Recoverable	Water	3005A	
680-221296-14	AF38181	Total Recoverable	Water	3005A	
680-221296-18	AF38185	Total Recoverable	Water	3005A	
680-221296-22	AF38189	Total Recoverable	Water	3005A	
680-221296-23	AF38190	Total Recoverable	Water	3005A	
680-221296-24	AF38191	Total Recoverable	Water	3005A	
680-221296-25	AF38192	Total Recoverable	Water	3005A	
680-221296-27	AF38194	Total Recoverable	Water	3005A	
680-221296-31	AF38198	Total Recoverable	Water	3005A	
MB 680-741169/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741169/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-221296-27 MS	AF38194	Total Recoverable	Water	3005A	
680-221296-27 MSD	AF38194	Total Recoverable	Water	3005A	

Prep Batch: 741235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	3005A	
MB 680-741235/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741235/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 741353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-3	AF38170	Total Recoverable	Water	6010D	741164
680-221296-5	AF38172	Total Recoverable	Water	6010D	741164
680-221296-6	AF38173	Total Recoverable	Water	6010D	741164
680-221296-7	AF38174	Total Recoverable	Water	6010D	741164
680-221296-15	AF38182	Total Recoverable	Water	6010D	741164
680-221296-17	AF38184	Total Recoverable	Water	6010D	741164
680-221296-19	AF38186	Total Recoverable	Water	6010D	741164
680-221296-20	AF38187	Total Recoverable	Water	6010D	741164

Metals (Continued)

Analysis Batch: 741353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-21	AF38188	Total Recoverable	Water	6010D	741164
680-221296-26	AF38193	Total Recoverable	Water	6010D	741164
680-221296-28	AF38195	Total Recoverable	Water	6010D	741164
680-221296-29	AF38196	Total Recoverable	Water	6010D	741164
680-221296-30	AF38197	Total Recoverable	Water	6010D	741164
680-221296-32	AF38199	Total Recoverable	Water	6010D	741164
680-221296-33	AF38200	Total Recoverable	Water	6010D	741164
MB 680-741164/1-A	Method Blank	Total Recoverable	Water	6010D	741164
LCS 680-741164/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741164

Analysis Batch: 741362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	6010D	741168
680-221296-2	AF38169	Total Recoverable	Water	6010D	741168
680-221296-4	AF38171	Total Recoverable	Water	6010D	741168
680-221296-8	AF38175	Total Recoverable	Water	6010D	741168
680-221296-9	AF38176	Total Recoverable	Water	6010D	741168
680-221296-10	AF38177	Total Recoverable	Water	6010D	741168
680-221296-11	AF38178	Total Recoverable	Water	6010D	741168
680-221296-12	AF38179	Total Recoverable	Water	6010D	741168
680-221296-13	AF38180	Total Recoverable	Water	6010D	741168
680-221296-14	AF38181	Total Recoverable	Water	6010D	741168
680-221296-18	AF38185	Total Recoverable	Water	6010D	741168
680-221296-22	AF38189	Total Recoverable	Water	6010D	741168
680-221296-23	AF38190	Total Recoverable	Water	6010D	741168
680-221296-24	AF38191	Total Recoverable	Water	6010D	741168
680-221296-25	AF38192	Total Recoverable	Water	6010D	741168
680-221296-27	AF38194	Total Recoverable	Water	6010D	741168
680-221296-31	AF38198	Total Recoverable	Water	6010D	741168
MB 680-741168/1-A	Method Blank	Total Recoverable	Water	6010D	741168
LCS 680-741168/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741168
680-221296-27 MS	AF38194	Total Recoverable	Water	6010D	741168
680-221296-27 MSD	AF38194	Total Recoverable	Water	6010D	741168

Analysis Batch: 741389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-1	AF38168	Total Recoverable	Water	6020B	741169
680-221296-2	AF38169	Total Recoverable	Water	6020B	741169
680-221296-3	AF38170	Total Recoverable	Water	6020B	741166
680-221296-4	AF38171	Total Recoverable	Water	6020B	741169
680-221296-5	AF38172	Total Recoverable	Water	6020B	741166
680-221296-6	AF38173	Total Recoverable	Water	6020B	741166
680-221296-7	AF38174	Total Recoverable	Water	6020B	741166
680-221296-8	AF38175	Total Recoverable	Water	6020B	741169
680-221296-9	AF38176	Total Recoverable	Water	6020B	741169
680-221296-10	AF38177	Total Recoverable	Water	6020B	741169
680-221296-11	AF38178	Total Recoverable	Water	6020B	741169
680-221296-12	AF38179	Total Recoverable	Water	6020B	741169
680-221296-13	AF38180	Total Recoverable	Water	6020B	741169
680-221296-14	AF38181	Total Recoverable	Water	6020B	741169
680-221296-15	AF38182	Total Recoverable	Water	6020B	741166

Metals (Continued)

Analysis Batch: 741389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-17	AF38184	Total Recoverable	Water	6020B	741166
680-221296-18	AF38185	Total Recoverable	Water	6020B	741169
680-221296-19	AF38186	Total Recoverable	Water	6020B	741166
680-221296-20	AF38187	Total Recoverable	Water	6020B	741166
680-221296-21	AF38188	Total Recoverable	Water	6020B	741166
680-221296-22	AF38189	Total Recoverable	Water	6020B	741169
680-221296-23	AF38190	Total Recoverable	Water	6020B	741169
680-221296-24	AF38191	Total Recoverable	Water	6020B	741169
680-221296-25	AF38192	Total Recoverable	Water	6020B	741169
680-221296-26	AF38193	Total Recoverable	Water	6020B	741166
680-221296-27	AF38194	Total Recoverable	Water	6020B	741169
680-221296-28	AF38195	Total Recoverable	Water	6020B	741166
680-221296-29	AF38196	Total Recoverable	Water	6020B	741166
680-221296-30	AF38197	Total Recoverable	Water	6020B	741166
680-221296-31	AF38198	Total Recoverable	Water	6020B	741169
680-221296-32	AF38199	Total Recoverable	Water	6020B	741166
680-221296-33	AF38200	Total Recoverable	Water	6020B	741166
MB 680-741166/1-A	Method Blank	Total Recoverable	Water	6020B	741166
MB 680-741169/1-A	Method Blank	Total Recoverable	Water	6020B	741169
LCS 680-741166/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741166
LCS 680-741169/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741169
680-221296-27 MS	AF38194	Total Recoverable	Water	6020B	741169
680-221296-27 MSD	AF38194	Total Recoverable	Water	6020B	741169

Prep Batch: 741508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	3005A	
MB 680-741508/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-741508/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 741576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-16	AF38183	Total Recoverable	Water	6020B	741235
MB 680-741235/1-A	Method Blank	Total Recoverable	Water	6020B	741235
LCS 680-741235/2-A	Lab Control Sample	Total Recoverable	Water	6020B	741235

Analysis Batch: 741586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-4	AF38171	Total Recoverable	Water	6010D	741168
680-221296-5	AF38172	Total Recoverable	Water	6010D	741164
680-221296-6	AF38173	Total Recoverable	Water	6010D	741164
680-221296-16	AF38183	Total Recoverable	Water	6010D	741508
MB 680-741508/1-A	Method Blank	Total Recoverable	Water	6010D	741508
LCS 680-741508/2-A	Lab Control Sample	Total Recoverable	Water	6010D	741508

Prep Batch: 742555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-27	AF38194	Total Recoverable	Water	3005A	
MB 680-742555/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-742555/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 742783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-221296-27	AF38194	Total Recoverable	Water	6010D	742555
MB 680-742555/1-A	Method Blank	Total Recoverable	Water	6010D	742555
LCS 680-742555/2-A	Lab Control Sample	Total Recoverable	Water	6010D	742555

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38168
Date Collected: 07/06/22 14:06
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:29
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:35

Client Sample ID: AF38169
Date Collected: 07/06/22 14:11
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:11
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:07

Client Sample ID: AF38170
Date Collected: 07/18/22 13:12
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:24
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 20:55

Client Sample ID: AF38171
Date Collected: 07/20/22 14:12
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:41
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:27
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:54

Client Sample ID: AF38172
Date Collected: 07/20/22 14:17
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:54
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:33

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38172
Date Collected: 07/20/22 14:17
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:42

Client Sample ID: AF38173
Date Collected: 07/20/22 11:00
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:39
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		10	741586	BJB	EET SAV	09/21/22 15:30
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:26

Client Sample ID: AF38174
Date Collected: 07/20/22 12:20
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:59
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:50

Client Sample ID: AF38175
Date Collected: 07/20/22 13:17
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:39
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:50

Client Sample ID: AF38176
Date Collected: 07/18/22 14:30
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:57
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:09

Client Sample ID: AF38177
Date Collected: 07/14/22 12:48
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:31
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:39

Client Sample ID: AF38178
Date Collected: 07/12/22 12:35
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:54
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:06

Client Sample ID: AF38179
Date Collected: 07/12/22 12:40
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:34
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:42

Client Sample ID: AF38180
Date Collected: 07/07/22 14:43
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:26
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:23

Client Sample ID: AF38181
Date Collected: 07/13/22 11:08
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:24
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:19

Client Sample ID: AF38182
Date Collected: 07/28/22 11:00
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:29
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:03

Client Sample ID: AF38183
Date Collected: 07/14/22 10:45
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741508	BCB	EET SAV	09/21/22 13:44
Total Recoverable	Analysis	6010D		1	741586	BJB	EET SAV	09/21/22 18:45
Total Recoverable	Prep	3005A			741235	RR	EET SAV	09/20/22 10:24
Total Recoverable	Analysis	6020B		1	741576	BWR	EET SAV	09/22/22 02:15

Client Sample ID: AF38184
Date Collected: 07/07/22 13:44
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:52
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:38

Client Sample ID: AF38185
Date Collected: 07/13/22 12:25
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:14
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:11

Client Sample ID: AF38186
Date Collected: 07/13/22 15:31
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:34
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:11

Client Sample ID: AF38187
Date Collected: 07/11/22 10:30
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:42
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:30

Client Sample ID: AF38188
Date Collected: 07/11/22 11:41
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:44
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:34

Client Sample ID: AF38189
Date Collected: 07/11/22 11:46
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:43
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:59
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:43
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:21

Client Sample ID: AF38190
Date Collected: 07/06/22 10:23
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:36
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:46

Client Sample ID: AF38191
Date Collected: 07/12/22 10:44
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:21
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:15

Client Sample ID: AF38192
Date Collected: 07/12/22 14:55
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:44
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 23:58

Client Sample ID: AF38193
Date Collected: 07/11/22 13:38
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:32
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:07

Client Sample ID: AF38194
Date Collected: 07/11/22 14:41
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:04
Total Recoverable	Prep	3005A			742555	RR	EET SAV	09/28/22 09:50
Total Recoverable	Analysis	6010D		1	742783	BJB	EET SAV	09/29/22 09:40
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 22:56

Client Sample ID: AF38195
Date Collected: 07/11/22 15:35
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 17:04
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:58

Client Sample ID: AF38196
Date Collected: 07/11/22 15:40
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:27
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 20:59

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G01.1/36500

Job ID: 680-221296-1

Client Sample ID: AF38197

Date Collected: 07/12/22 13:58
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:57
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:46

Client Sample ID: AF38198

Date Collected: 07/07/22 12:37
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741168	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6010D		1	741362	BCB	EET SAV	09/20/22 15:52
Total Recoverable	Prep	3005A			741169	RR	EET SAV	09/20/22 05:39
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/21/22 00:02

Client Sample ID: AF38199

Date Collected: 07/07/22 11:37
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 16:37
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:23

Client Sample ID: AF38200

Date Collected: 07/14/22 11:50
Date Received: 09/16/22 10:30

Lab Sample ID: 680-221296-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			741164	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6010D		1	741353	BCB	EET SAV	09/20/22 17:02
Total Recoverable	Prep	3005A			741166	RR	EET SAV	09/20/22 05:22
Total Recoverable	Analysis	6020B		1	741389	BWR	EET SAV	09/20/22 21:54

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 9 / 27 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax. (843)761-4175

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: / /

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS BELOW
AF38168	WAP-12	7/6/22	1406	DEW BM	1	P	G	GW	2	USE APPROPRIATE	X
69	12 DUP	"	1411	"	"	"	"	"	"	METHOD TO MEET RLS	"
70	13	7/18	1312	"	"	"	"	"	"	-SEE SHEET FOR RLS	"
71	14	7/20	1412	DEW DJ	"	"	"	"	"		"
72	14 DUP	7/20	1417	"	"	"	"	"	"		"
73	14A	7/20	1100	"	"	"	"	"	"		"
74	14B	"	1220	"	"	"	"	"	"		"
75	14C	"	1317	"	"	"	"	"	"		"
76	WAP-15	7/18	1430	"	"	"	"	"	"		"
77	WAP-[illegible]16	7/14	1248	DEW BM	"	"	"	"	"		"

680-221296 Chain of Custody

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	35594	9/15/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☑ Cu	☑ Sb
☑ Al	☑ Fe	☑ Se
☑ As	☑ K	☐ Sn
☐ B	☐ Li	☐ Sr
☑ Ba	☑ Mg	☐ Ti
☑ Be	☐ Mn	☑ Tl
☑ Ca	☑ Mo	☐ V
☑ Cd	☑ Na	☑ Zn
☑ Co	☑ Ni	☐ Hg
☑ Cr	☑ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard
Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
GOFER

[signature] 9/16/22 1030
24.1/24.0

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info. TA-SAV Contract Lab Due Date (Lab Only). 9 / 27 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax: (843)761-4175

Customer Email/Report Recipient:	Date Results Needed by:	Project/Task/Unit #:	Rerun request for any flagged QC
LCWILLIA @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	METALS BELOW
AF38178	WAP 17	7/12	1235	DEW BM	1	P	G	GW	2	EITHER USE^ METHOD TO MEET RLS	X
79	⊥ 17 DUP	⊥	1240	⊥							
80	WAP-18	7/7	1443	DEW DJ						-SEE SHEET FOR RLS	
81	⊥ 19	7/13	1108	DEW BM			⊥				
82	WAP-20	7/28	1100	DEW			C				
83	WAP-21	7/14	1045	DEW BM			G				
84	WAP-22	7/7	1344	DEW DJ							
85	⊥ 23	7/13	1225	DEW BM							
86	⊥ 24	⊥	1531	⊥							
⊥ 87	WAP-25	7/11	1030	DEW BM	⊥	⊥	⊥	⊥	⊥		

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
[signature]	35594	9/15/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AlM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TX
GOFER

9/16/22 1030

24.1/24.0

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Contract Lab Info TA-SAV Contract Lab Due Date (Lab Only). 9 / 27 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax (843)761-4175

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS BELOW			
AF38188	WAP-26	7/11	1141	DEW BM	1	P	G	GW	2	USE APPROPRIATE METHOD	X			
89	WAP-26 DUP	↓	1146							TO MEET RLS.				
90	WBW-1	7/6	1023							SEE SHEET FOR RLS				
91	WBW-A1-1	7/12	1044											
92	WLF A1-1	7/12	1455											
93	WLF-A1-2	7/11	1338											
94	3		1441											
95	4		1535											
96	4 DUP	↓	1540											
97	WLF-A1-5	7/12	1358	↓	↓	↓	↓	↓	↓		↓			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown		9/15/22	1500				
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)		
☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ Trans. Oil Qual.
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ Used Oil
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
GOFER

SJB 9/16/22 1030

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

24 1/24.0

Contract Lab Info. TA SAV Contract Lab Due Date (Lab Only) 9 / 27 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax. (843)761-4175

Customer Email/Report Recipient: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.69 GØ1.1 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	METALS SEE BELOW			
AF38198	WLF-A2-2	7/7	1237	DEW DJ	1	P	G	GW	2	USE APPROPRIATE METHOD	X			
99	WLF-A2-1	〃	1137	〃	〃	〃	〃	〃	〃	TO MEET RLS	〃			
〃 200	〃 6	7/14	1150	DEW BM	〃	〃	〃	〃	〃	-SEE SHEET FOR RLS.	〃			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJBrown		9/15/22	1500				
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**
Relinquished by:	**Employee#**	**Date**	**Time**	**Received by:**	**Employee #**	**Date**	**Time**

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard
Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TX
GOFER

9/16/22
1030

Matrix codes GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

29.1/24.0 9/30/2022

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-221296-1

Login Number: 221296
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-221296-1
Project/Site: 125915/JM02.09.G01.1/36500

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

August 15, 2022

Ms. Jeanette Gilmetti
Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461

Re: ABS Lab Analytical
Work Order: 589082

Dear Ms. Gilmetti:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 02, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson

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: 589082 GEL Work Order: 589082

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Julie Robinson.

Reviewed by Julie Robinson

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 15, 2022

Company : Santee Cooper
Address : P.O. Box 2946101
OCO3
Moncks Corner, South Carolina 29461
Contact: Ms. Jeanette Gilmetti
Project: ABS Lab Analytical

Client Sample ID: AF38182
Sample ID: 589082001
Matrix: Ground Water
Collect Date: 28-JUL-22 11:00
Receive Date: 02-AUG-22
Collector: Client

Project: SOOP00119
Client ID: SOOP001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury		0.340	0.0670	0.200	ug/L	1.00	1	JP2	08/12/22	1332	2302118	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	RM4	08/11/22	1411	2302112

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: August 15, 2022

Santee Cooper
P.O. Box 2946101
OCO3
Moncks Corner, South Carolina

Contact: Ms. Jeanette Gilmetti

Workorder: 589082

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2302118										
QC1205162357 587278001 DUP										
Mercury	U	ND	U	ND	ug/L	N/A			JP2	08/12/22 11:25
QC1205162355 LCS										
Mercury	2.00			2.01	ug/L		101	(80%-120%)		08/12/22 11:17
QC1205162354 MB										
Mercury			U	ND	ug/L					08/12/22 11:15
QC1205162358 587278001 MS										
Mercury	2.00 U	ND		1.99	ug/L		98	(75%-125%)		08/12/22 11:27
QC1205162359 587278001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/12/22 11:29

Notes:

The Qualifiers in this report are defined as follows:

<	Result is less than value reported
>	Result is greater than value reported
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
N	Metals--The Matrix spike sample recovery is not within specified control limits
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

QC Summary

Workorder: **589082**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Santee Cooper
SDG #: 589082

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 38
Analytical Batch: 2302118

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 38
Preparation Batch: 2302112

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
589082001	AF38182
1205162354	Method Blank (MB)**CVAA**
1205162355	Laboratory Control Sample (LCS)
1205162359	587278001(NonSDGL) Serial Dilution (SD)
1205162357	587278001(NonSDGD) Sample Duplicate (DUP)
1205162358	587278001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Contract Lab Info: GEL Contract Lab Due Date (Lab Only): 8 / 10 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

588128

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: LCWILLIA @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.GØ1.1 / 36500

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: 647			
AF38182	WAP-20	7/28/22	1100	DEW	1	P	C	GW	2	7470 RL= 0.200 PPB	X			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
BJ Brown	35594	8/2/22	0930		GEL	8/2/22	0930
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
	621	8.2.22	1401			8/2/22	9:30
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C): _____ **Initial:** _____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☐ Cu	☐ Sb
☐ Al	☐ Fe	☐ Se
☐ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☐ Ba	☐ Mg	☐ Ti
☐ Be	☐ Mn	☐ Tl
☐ Ca	☐ Mo	☐ V
☐ Cd	☐ Na	☐ Zn
☐ Co	☐ Ni	☐ Hg
☐ Cr	☐ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ **Wallboard Gypsum(*all below*)**
☐ AlM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ **Ultimate**
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As
☐ TSS

Oil
☐ **Trans. Oil Qual.**
☐ %Moisture
☐ Color
☐ Acidity
☐ Dielectric Strength
☐ IFT
☐ Dissolved Gases
☐ **Used Oil**
☐ Flashpoint
☐ Metals in oil (As,Cd,Cr,Ni,Pb Hg)
☐ TX
☐ **GOFER**

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler water, L-limestone, Oil-oil, S-Soil, SL-solid, C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code: 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

J.R

Client: SCOP	**SDG/AR/COC/Work Order:** 588129/588125/588128/588130
Received By: S.P	**Date Received:** 8/3/22
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1
4	Daily check performed and passed on IR temperature gun?	X			**Temperature Device Serial #:** IR2-22 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			X	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			X	
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials SW Date 8/3/22 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 15 August 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-5
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-223949-1
Client Project/Site: 125915/JM02.09.G011/36500

For:
South Carolina Public Service Authority
Santee Cooper
PO BOX 2946101
Moncks Corner, South Carolina 29461-2901

Attn: Linda Williams

Jerry Lanier

Authorized for release by:
10/28/2022 4:35:45 PM

Jerry Lanier, Project Manager I
(912)250-0281
Jerry.Lanier@et.eurofinsus.com

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Job ID: 680-223949-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-223949-1

Receipt
The samples were received on 10/25/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.2°C

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-223949-1	AF47330	Water	10/20/22 10:47	10/25/22 10:30
680-223949-2	AF47329	Water	10/20/22 12:20	10/25/22 10:30
680-223949-3	AF47327	Water	10/20/22 13:18	10/25/22 10:30
680-223949-4	AF47331	Water	10/20/22 15:39	10/25/22 10:30
680-223949-5	AF47328	Water	10/20/22 13:23	10/25/22 10:30
680-223949-6	AF47323	Water	10/21/22 12:19	10/25/22 10:30
680-223949-7	AF47334	Water	10/21/22 12:24	10/25/22 10:30
680-223949-8	AF47332	Water	10/21/22 10:47	10/25/22 10:30

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: South Carolina Public Service Authority
Job ID: 680-223949-1
Project/Site: 125915/JM02.09.G011/36500

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47330 — Lab Sample ID: 680-223949-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	270000		500		ug/L	1		6010D	Total Recoverable
Iron	14600		100		ug/L	1		6010D	Total Recoverable
Arsenic	30.6		3.00		ug/L	1		6020B	Total Recoverable
Barium	135		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47329 — Lab Sample ID: 680-223949-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	159000		500		ug/L	1		6010D	Total Recoverable
Iron	5340		100		ug/L	1		6010D	Total Recoverable
Arsenic	225		3.00		ug/L	1		6020B	Total Recoverable
Barium	79.1		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47327 — Lab Sample ID: 680-223949-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97100		500		ug/L	1		6010D	Total Recoverable
Iron	69900		100		ug/L	1		6010D	Total Recoverable
Arsenic	86.0		3.00		ug/L	1		6020B	Total Recoverable
Barium	108		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	1.53		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47331 — Lab Sample ID: 680-223949-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	112000		500		ug/L	1		6010D	Total Recoverable
Iron	3160		100		ug/L	1		6010D	Total Recoverable
Arsenic	65.7		3.00		ug/L	1		6020B	Total Recoverable
Barium	82.7		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	5.03		0.500		ug/L	1		6020B	Total Recoverable
Nickel	5.56		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47328 — Lab Sample ID: 680-223949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	121000		500		ug/L	1		6010D	Total Recoverable
Iron	3490		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: AF47328 (Continued)

Lab Sample ID: 680-223949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	69.5		3.00		ug/L	1		6020B	Total Recoverable
Barium	91.8		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	5.72		0.500		ug/L	1		6020B	Total Recoverable
Nickel	6.32		5.00		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47323

Lab Sample ID: 680-223949-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	663000		500		ug/L	1		6010D	Total Recoverable
Iron	39100		100		ug/L	1		6010D	Total Recoverable
Barium	50.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	7.08		0.500		ug/L	1		6020B	Total Recoverable
Selenium	3.68		2.50		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47334

Lab Sample ID: 680-223949-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	616000		500		ug/L	1		6010D	Total Recoverable
Iron	36500		100		ug/L	1		6010D	Total Recoverable
Arsenic	3.41		3.00		ug/L	1		6020B	Total Recoverable
Barium	46.7		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	6.83		0.500		ug/L	1		6020B	Total Recoverable
Selenium	3.50		2.50		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF47332

Lab Sample ID: 680-223949-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	89300		500		ug/L	1		6010D	Total Recoverable
Iron	81800		100		ug/L	1		6010D	Total Recoverable
Barium	257		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	1.27		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	19.7		0.500		ug/L	1		6020B	Total Recoverable
Lead	3.55		2.50		ug/L	1		6020B	Total Recoverable
Nickel	7.63		5.00		ug/L	1		6020B	Total Recoverable
Selenium	4.48		2.50		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47332 (Continued)

Lab Sample ID: 680-223949-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	24.8		20.0		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47330

Date Collected: 10/20/22 10:47
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-1

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**270000**		500		ug/L		10/26/22 10:40	10/27/22 15:49	1
Iron	**14600**		100		ug/L		10/26/22 10:40	10/27/22 15:49	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Arsenic	**30.6**		3.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Barium	**135**		5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:30	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:30	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Cobalt	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:30	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:30	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:30	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:30	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:30	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47329

Date Collected: 10/20/22 12:20
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	159000		500		ug/L		10/26/22 10:40	10/27/22 15:52	1
Iron	5340		100		ug/L		10/26/22 10:40	10/27/22 15:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Arsenic	225		3.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Barium	79.1		5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:33	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:33	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Cobalt	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:33	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:33	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:33	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:33	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:33	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47327

Date Collected: 10/20/22 13:18
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-3

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**97100**		500		ug/L		10/26/22 10:40	10/27/22 15:55	1
Iron	**69900**		100		ug/L		10/26/22 10:40	10/27/22 15:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Arsenic	**86.0**		3.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Barium	**108**		5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:36	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:36	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Cobalt	**1.53**		0.500		ug/L		10/26/22 10:40	10/27/22 14:36	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:36	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:36	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:36	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:36	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47331
Date Collected: 10/20/22 15:39
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-4
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**112000**		500		ug/L		10/26/22 10:40	10/27/22 15:58	1
Iron	**3160**		100		ug/L		10/26/22 10:40	10/27/22 15:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Arsenic	**65.7**		3.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Barium	**82.7**		5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:44	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:44	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Cobalt	**5.03**		0.500		ug/L		10/26/22 10:40	10/27/22 14:44	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:44	1
Nickel	**5.56**		5.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:44	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:44	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:44	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47328

Date Collected: 10/20/22 13:23
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-5

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**121000**		500		ug/L		10/26/22 10:40	10/27/22 16:07	1
Iron	**3490**		100		ug/L		10/26/22 10:40	10/27/22 16:07	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Arsenic	**69.5**		3.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Barium	**91.8**		5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:47	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:47	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Cobalt	**5.72**		0.500		ug/L		10/26/22 10:40	10/27/22 14:47	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:47	1
Nickel	**6.32**		5.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:47	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:47	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:47	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47323
Date Collected: 10/21/22 12:19
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-6
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**663000**		500		ug/L		10/26/22 10:40	10/27/22 16:10	1
Iron	**39100**		100		ug/L		10/26/22 10:40	10/27/22 16:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Arsenic	3.00	U	3.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Barium	**50.6**		5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:49	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:49	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Cobalt	**7.08**		0.500		ug/L		10/26/22 10:40	10/27/22 14:49	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:49	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Selenium	**3.68**		2.50		ug/L		10/26/22 10:40	10/27/22 14:49	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:49	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:49	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47334

Date Collected: 10/21/22 12:24
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-7

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**616000**		500		ug/L		10/26/22 10:40	10/27/22 16:13	1
Iron	**36500**		100		ug/L		10/26/22 10:40	10/27/22 16:13	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Arsenic	**3.41**		3.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Barium	**46.7**		5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:52	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:52	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Cobalt	**6.83**		0.500		ug/L		10/26/22 10:40	10/27/22 14:52	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:52	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Selenium	**3.50**		2.50		ug/L		10/26/22 10:40	10/27/22 14:52	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:52	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:52	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47332

Date Collected: 10/21/22 10:47
Date Received: 10/25/22 10:30

Lab Sample ID: 680-223949-8

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**89300**		500		ug/L		10/26/22 10:41	10/27/22 16:16	1
Iron	**81800**		100		ug/L		10/26/22 10:41	10/27/22 16:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Arsenic	3.00	U	3.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Barium	**257**		5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Beryllium	**1.27**		0.500		ug/L		10/26/22 10:41	10/27/22 14:55	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:41	10/27/22 14:55	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Cobalt	**19.7**		0.500		ug/L		10/26/22 10:41	10/27/22 14:55	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Lead	**3.55**		2.50		ug/L		10/26/22 10:41	10/27/22 14:55	1
Nickel	**7.63**		5.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Selenium	**4.48**		2.50		ug/L		10/26/22 10:41	10/27/22 14:55	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:41	10/27/22 14:55	1
Zinc	**24.8**		20.0		ug/L		10/26/22 10:41	10/27/22 14:55	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-747083/1-A
Matrix: Water
Analysis Batch: 747484

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 747083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		10/26/22 10:40	10/27/22 15:34	1
Iron	100	U	100		ug/L		10/26/22 10:40	10/27/22 15:34	1

Lab Sample ID: LCS 680-747083/2-A
Matrix: Water
Analysis Batch: 747484

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 747083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	4679		ug/L		94	80 - 120
Iron	5000	5018		ug/L		100	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-747087/1-A
Matrix: Water
Analysis Batch: 747535

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 747087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Arsenic	3.00	U	3.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Barium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Beryllium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:11	1
Cadmium	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:11	1
Chromium	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Cobalt	0.500	U	0.500		ug/L		10/26/22 10:40	10/27/22 14:11	1
Copper	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Lead	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:11	1
Nickel	5.00	U	5.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Selenium	2.50	U	2.50		ug/L		10/26/22 10:40	10/27/22 14:11	1
Thallium	1.00	U	1.00		ug/L		10/26/22 10:40	10/27/22 14:11	1
Zinc	20.0	U	20.0		ug/L		10/26/22 10:40	10/27/22 14:11	1

Lab Sample ID: LCS 680-747087/2-A
Matrix: Water
Analysis Batch: 747535

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 747087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	53.19		ug/L		106	80 - 120
Arsenic	100	111.0		ug/L		111	80 - 120
Barium	100	105.1		ug/L		105	80 - 120
Beryllium	50.0	59.77		ug/L		120	80 - 120
Cadmium	50.0	55.16		ug/L		110	80 - 120
Chromium	100	110.2		ug/L		110	80 - 120
Cobalt	50.0	54.56		ug/L		109	80 - 120
Copper	100	113.9		ug/L		114	80 - 120
Lead	505	546.7		ug/L		108	80 - 120
Nickel	99.0	119.0		ug/L		120	80 - 120
Selenium	100	110.4		ug/L		110	80 - 120
Thallium	50.0	52.93		ug/L		106	80 - 120

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-747087/2-A
Matrix: Water
Analysis Batch: 747535

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 747087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	100	113.9		ug/L		114	80 - 120

Metals

Prep Batch: 747083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	3005A	
680-223949-2	AF47329	Total Recoverable	Water	3005A	
680-223949-3	AF47327	Total Recoverable	Water	3005A	
680-223949-4	AF47331	Total Recoverable	Water	3005A	
680-223949-5	AF47328	Total Recoverable	Water	3005A	
680-223949-6	AF47323	Total Recoverable	Water	3005A	
680-223949-7	AF47334	Total Recoverable	Water	3005A	
680-223949-8	AF47332	Total Recoverable	Water	3005A	
MB 680-747083/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-747083/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 747087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	3005A	
680-223949-2	AF47329	Total Recoverable	Water	3005A	
680-223949-3	AF47327	Total Recoverable	Water	3005A	
680-223949-4	AF47331	Total Recoverable	Water	3005A	
680-223949-5	AF47328	Total Recoverable	Water	3005A	
680-223949-6	AF47323	Total Recoverable	Water	3005A	
680-223949-7	AF47334	Total Recoverable	Water	3005A	
680-223949-8	AF47332	Total Recoverable	Water	3005A	
MB 680-747087/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-747087/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 747484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	6010D	747083
680-223949-2	AF47329	Total Recoverable	Water	6010D	747083
680-223949-3	AF47327	Total Recoverable	Water	6010D	747083
680-223949-4	AF47331	Total Recoverable	Water	6010D	747083
680-223949-5	AF47328	Total Recoverable	Water	6010D	747083
680-223949-6	AF47323	Total Recoverable	Water	6010D	747083
680-223949-7	AF47334	Total Recoverable	Water	6010D	747083
680-223949-8	AF47332	Total Recoverable	Water	6010D	747083
MB 680-747083/1-A	Method Blank	Total Recoverable	Water	6010D	747083
LCS 680-747083/2-A	Lab Control Sample	Total Recoverable	Water	6010D	747083

Analysis Batch: 747535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-223949-1	AF47330	Total Recoverable	Water	6020B	747087
680-223949-2	AF47329	Total Recoverable	Water	6020B	747087
680-223949-3	AF47327	Total Recoverable	Water	6020B	747087
680-223949-4	AF47331	Total Recoverable	Water	6020B	747087
680-223949-5	AF47328	Total Recoverable	Water	6020B	747087
680-223949-6	AF47323	Total Recoverable	Water	6020B	747087
680-223949-7	AF47334	Total Recoverable	Water	6020B	747087
680-223949-8	AF47332	Total Recoverable	Water	6020B	747087
MB 680-747087/1-A	Method Blank	Total Recoverable	Water	6020B	747087
LCS 680-747087/2-A	Lab Control Sample	Total Recoverable	Water	6020B	747087

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47330

Lab Sample ID: 680-223949-1

Date Collected: 10/20/22 10:47
Matrix: Water
Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:49
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:30

Client Sample ID: AF47329

Lab Sample ID: 680-223949-2

Date Collected: 10/20/22 12:20
Matrix: Water
Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:52
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:33

Client Sample ID: AF47327

Lab Sample ID: 680-223949-3

Date Collected: 10/20/22 13:18
Matrix: Water
Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:55
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:36

Client Sample ID: AF47331

Lab Sample ID: 680-223949-4

Date Collected: 10/20/22 15:39
Matrix: Water
Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 15:58
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:44

Client Sample ID: AF47328

Lab Sample ID: 680-223949-5

Date Collected: 10/20/22 13:23
Matrix: Water
Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:07
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:47

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.09.G011/36500

Job ID: 680-223949-1

Client Sample ID: AF47323

Lab Sample ID: 680-223949-6

Date Collected: 10/21/22 12:19

Matrix: Water

Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:10
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:49

Client Sample ID: AF47334

Lab Sample ID: 680-223949-7

Date Collected: 10/21/22 12:24

Matrix: Water

Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:13
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:40
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:52

Client Sample ID: AF47332

Lab Sample ID: 680-223949-8

Date Collected: 10/21/22 10:47

Matrix: Water

Date Received: 10/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747083	RR	EET SAV	10/26/22 10:41
Total Recoverable	Analysis	6010D		1	747484	BJB	EET SAV	10/27/22 16:16
Total Recoverable	Prep	3005A			747087	RR	EET SAV	10/26/22 10:41
Total Recoverable	Analysis	6020B		1	747535	BWR	EET SAV	10/27/22 14:55

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info. TA SAV Contract Lab Due Date (Lab Only). 11 / 1 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner SC 29461
Phone (843)761-8000 Ext. 5148
Fax. (843)761-4175

Customer Email/Report Recipient: LINDA.WILLIAMS@santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09 GØ11 / 36500

Rerun request for any flagged QC (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS -SEE BELOW			
AF47330	WAP-22	10/20/22	1047	WJK ML	1	P	G	GW	2	6010 - Ca, Fe	X			
29	WLF-A2-2	"	1220	"	"	"	"	"	"	6020 - Sb, As, Ba, Be, Cd,	"			
27	WLF-A2-1	"	1318	"	"	"	"	"	"	Cr, Co, Cu, Pb, Ni,	"			
31	WAP-27	"	1539	"	"	"	"	"	"	Se, Tl, Zn	"			
28	WLF-A2-1 DUP	"	1323	"	"	"	"	"	"		"			
33	WAP-29	10/21/22	1219	WJK MG	"	"	"	"	"	* PLEASE SEE SHEET	"			
34	WAP-29 DUP	"	1224	"	"	"	"	"	"	FOR RLS FOR SELECTED METALS.	"			
32	WAP-28	"	1047	"	"	"	"	"	"		"			

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	10/24/22	1500	[signature]	6	10/25	10:30
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#:
Date/Time/Init for preservative:

☐ **METALS (all)**

☐ Ag	☒ Cu	☒ Sb
☐ Al	☒ Fe	☒ Se
☒ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☒ Ba	☐ Mg	☐ Ti
☒ Be	☐ Mn	☒ Tl
☒ Ca	☐ Mo	☐ V
☒ Cd	☐ Na	☒ Zn
☒ Co	☒ Ni	☐ Hg
☒ Cr	☒ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard Gypsum(*all below*)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As

Oil
Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TX

19-2/19-2

680-223949 Chain of Custody

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste water, BW-boiler wate C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

Table of Reporting Limits for Groundwater Samples-- Metals Only

Analyte	Unit	GWPS/ MCL/ RSL	Reporting Limits best case
Aluminum	mg/L	0.05 to 0.2	---
Antimony	ug/L	6	5
Arsenic	ug/L	10	5
Arsenic Dissolved	ug/L	---	---
Barium	ug/L	2000	5
Beryllium	ug/L	4	0.5
Boron	ug/L	---	10 to 15
Cadmium	ug/L	5	0.5
Calcium	ug/L	---	0.1
Chromium	ug/L	100	5
Cobalt	ug/L	6	0.5
Copper	mg/L	1	---
Iron	ug/L	300	---
Lead	ug/L	15	1
Lithium	ug/L	40	5
Magnesium	ug/L	---	---
Mercury	ug/L	2	0.2
Molybdenum	ug/L	100	5
Nickel	ug/L	---	---
Potassium	mg/L	---	---
Selenium	ug/L	50	5
Sodium	mg/L	---	---
Thallium	ug/L	2	1
Zinc	ug/L	5000	---

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-223949-1

Login Number: 223949

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-223949-1
Project/Site: 125915/JM02.09.G011/36500

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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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 12/22/2022 7:23:03 PM

JOB DESCRIPTION

125915/JM02.08.G01.1/36500

JOB NUMBER

680-227330-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

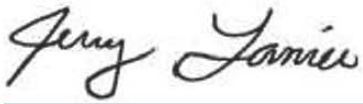
myEOL

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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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Job ID: 680-227330-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-227330-1

Receipt
The samples were received on 12/9/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.1°C

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-227330-1	AF50607	Water	12/06/22 10:22	12/09/22 10:00
680-227330-2	AF50606	Water	12/06/22 11:34	12/09/22 10:00
680-227330-3	AF50605	Water	12/06/22 13:25	12/09/22 10:00
680-227330-4	AF50604	Water	12/06/22 14:34	12/09/22 10:00
680-227330-5	AF50602	Water	12/07/22 10:07	12/09/22 10:00
680-227330-6	AF50603	Water	12/07/22 10:12	12/09/22 10:00
680-227330-7	AF50608	Water	12/07/22 13:42	12/09/22 10:00
680-227330-8	AF50609	Water	12/07/22 13:47	12/09/22 10:00
680-227330-9	AF50610	Water	12/07/22 15:03	12/09/22 10:00

Method Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50607 — Lab Sample ID: 680-227330-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	673000		500		ug/L	1		6010D	Total Recoverable
Iron	40600		100		ug/L	1		6010D	Total Recoverable
Barium	45.6		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	7.32		0.500		ug/L	1		6020B	Total Recoverable
Selenium	3.58		2.50		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50606 — Lab Sample ID: 680-227330-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	81700		500		ug/L	1		6010D	Total Recoverable
Iron	88800		100		ug/L	1		6010D	Total Recoverable
Barium	273		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	1.99		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	21.1		0.500		ug/L	1		6020B	Total Recoverable
Lead	3.70		2.50		ug/L	1		6020B	Total Recoverable
Nickel	8.37		5.00		ug/L	1		6020B	Total Recoverable
Selenium	4.99		2.50		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50605 — Lab Sample ID: 680-227330-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97300		500		ug/L	1		6010D	Total Recoverable
Iron	83400		100		ug/L	1		6010D	Total Recoverable
Arsenic	96.8		3.00		ug/L	1		6020B	Total Recoverable
Barium	122		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	0.820		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50604 — Lab Sample ID: 680-227330-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	184000		500		ug/L	1		6010D	Total Recoverable
Iron	5760		100		ug/L	1		6010D	Total Recoverable
Arsenic	186		3.00		ug/L	1		6020B	Total Recoverable
Barium	84.5		5.00		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50602 — Lab Sample ID: 680-227330-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	108000		500		ug/L	1		6010D	Total Recoverable
Iron	1770		100		ug/L	1		6010D	Total Recoverable
Arsenic	62.1		3.00		ug/L	1		6020B	Total Recoverable
Barium	62.1		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.03		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50603 — Lab Sample ID: 680-227330-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	106000		500		ug/L	1		6010D	Total Recoverable
Iron	1670		100		ug/L	1		6010D	Total Recoverable
Arsenic	69.0		3.00		ug/L	1		6020B	Total Recoverable
Barium	67.5		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	2.17		0.500		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50608 — Lab Sample ID: 680-227330-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	303000		500		ug/L	1		6010D	Total Recoverable
Iron	112000		100		ug/L	1		6010D	Total Recoverable
Arsenic	6.11		3.00		ug/L	1		6020B	Total Recoverable
Barium	24.8		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	11.6		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	2.95		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	75.2		0.500		ug/L	1		6020B	Total Recoverable
Lead	47.3		2.50		ug/L	1		6020B	Total Recoverable
Nickel	36.1		5.00		ug/L	1		6020B	Total Recoverable
Selenium	55.8		2.50		ug/L	1		6020B	Total Recoverable
Zinc	55.0		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50609 — Lab Sample ID: 680-227330-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	307000		500		ug/L	1		6010D	Total Recoverable
Iron	114000		100		ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50609 (Continued)

Lab Sample ID: 680-227330-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.23		3.00		ug/L	1		6020B	Total Recoverable
Barium	24.9		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	14.7		0.500		ug/L	1		6020B	Total Recoverable
Cadmium	2.15		0.500		ug/L	1		6020B	Total Recoverable
Cobalt	78.6		0.500		ug/L	1		6020B	Total Recoverable
Lead	48.3		2.50		ug/L	1		6020B	Total Recoverable
Nickel	38.0		5.00		ug/L	1		6020B	Total Recoverable
Selenium	56.9		2.50		ug/L	1		6020B	Total Recoverable
Zinc	54.7		20.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: AF50610

Lab Sample ID: 680-227330-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1620		500		ug/L	1		6010D	Total Recoverable
Iron	2260		100		ug/L	1		6010D	Total Recoverable
Barium	35.2		5.00		ug/L	1		6020B	Total Recoverable
Beryllium	0.775		0.500		ug/L	1		6020B	Total Recoverable
Chromium	5.79		5.00		ug/L	1		6020B	Total Recoverable
Cobalt	20.2		0.500		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50607

Date Collected: 12/06/22 10:22
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-1

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**673000**		500		ug/L		12/12/22 14:06	12/13/22 14:08	1
Iron	**40600**		100		ug/L		12/12/22 14:06	12/13/22 14:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Barium	**45.6**		5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:30	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:30	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Cobalt	**7.32**		0.500		ug/L		12/12/22 14:06	12/13/22 14:30	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:30	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Selenium	**3.58**		2.50		ug/L		12/12/22 14:06	12/13/22 14:30	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:30	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U F1	0.200		ug/L		12/13/22 08:49	12/13/22 17:40	1
Mercury	0.200	U	0.200		ug/L		12/20/22 15:23	12/21/22 16:37	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50606

Date Collected: 12/06/22 11:34
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**81700**		500		ug/L		12/12/22 14:06	12/13/22 14:11	1
Iron	**88800**		100		ug/L		12/12/22 14:06	12/13/22 14:11	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Barium	**273**		5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Beryllium	**1.99**		0.500		ug/L		12/12/22 14:06	12/13/22 14:33	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:33	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Cobalt	**21.1**		0.500		ug/L		12/12/22 14:06	12/13/22 14:33	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Lead	**3.70**		2.50		ug/L		12/12/22 14:06	12/13/22 14:33	1
Nickel	**8.37**		5.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Selenium	**4.99**		2.50		ug/L		12/12/22 14:06	12/13/22 14:33	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:33	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:48	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50605

Date Collected: 12/06/22 13:25
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-3

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**97300**		500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Iron	**83400**		100		ug/L		12/12/22 14:06	12/13/22 14:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Arsenic	**96.8**		3.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Barium	**122**		5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:38	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:38	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Cobalt	**0.820**		0.500		ug/L		12/12/22 14:06	12/13/22 14:38	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:38	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:38	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:38	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:50	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50604

Date Collected: 12/06/22 14:34
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**184000**		500		ug/L		12/12/22 14:06	12/13/22 13:50	1
Iron	**5760**		100		ug/L		12/12/22 14:06	12/13/22 13:50	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Arsenic	**186**		3.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Barium	**84.5**		5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Cobalt	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:14	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:14	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:14	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:14	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:53	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50602

Date Collected: 12/07/22 10:07
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-5

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**108000**		500		ug/L		12/12/22 14:06	12/13/22 13:59	1
Iron	**1770**		100		ug/L		12/12/22 14:06	12/13/22 13:59	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Arsenic	**62.1**		3.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Barium	**62.1**		5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:22	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:22	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Cobalt	**2.03**		0.500		ug/L		12/12/22 14:06	12/13/22 14:22	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:22	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:22	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:22	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:55	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50603

Date Collected: 12/07/22 10:12
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**106000**		500		ug/L		12/12/22 14:06	12/13/22 14:02	1
Iron	**1670**		100		ug/L		12/12/22 14:06	12/13/22 14:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Arsenic	**69.0**		3.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Barium	**67.5**		5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:24	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:24	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Cobalt	**2.17**		0.500		ug/L		12/12/22 14:06	12/13/22 14:24	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:24	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:24	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:24	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:58	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50608

Date Collected: 12/07/22 13:42
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-7

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**303000**		500		ug/L		12/12/22 14:06	12/13/22 14:05	1
Iron	**112000**		100		ug/L		12/12/22 14:06	12/13/22 14:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Arsenic	**6.11**		3.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Barium	**24.8**		5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Beryllium	**11.6**		0.500		ug/L		12/12/22 14:06	12/13/22 14:27	1
Cadmium	**2.95**		0.500		ug/L		12/12/22 14:06	12/13/22 14:27	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Cobalt	**75.2**		0.500		ug/L		12/12/22 14:06	12/13/22 14:27	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Lead	**47.3**		2.50		ug/L		12/12/22 14:06	12/13/22 14:27	1
Nickel	**36.1**		5.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Selenium	**55.8**		2.50		ug/L		12/12/22 14:06	12/13/22 14:27	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:27	1
Zinc	**55.0**		20.0		ug/L		12/12/22 14:06	12/13/22 14:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 18:05	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50609

Date Collected: 12/07/22 13:47
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-8

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**307000**		500		ug/L		12/12/22 14:06	12/13/22 14:17	1
Iron	**114000**		100		ug/L		12/12/22 14:06	12/13/22 14:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Arsenic	**9.23**		3.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Barium	**24.9**		5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Beryllium	**14.7**		0.500		ug/L		12/12/22 14:06	12/13/22 14:41	1
Cadmium	**2.15**		0.500		ug/L		12/12/22 14:06	12/13/22 14:41	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Cobalt	**78.6**		0.500		ug/L		12/12/22 14:06	12/13/22 14:41	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Lead	**48.3**		2.50		ug/L		12/12/22 14:06	12/13/22 14:41	1
Nickel	**38.0**		5.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Selenium	**56.9**		2.50		ug/L		12/12/22 14:06	12/13/22 14:41	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:41	1
Zinc	**54.7**		20.0		ug/L		12/12/22 14:06	12/13/22 14:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 18:08	1

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50610

Date Collected: 12/07/22 15:03
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-9

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**1620**		500		ug/L		12/12/22 14:06	12/13/22 14:20	1
Iron	**2260**		100		ug/L		12/12/22 14:06	12/13/22 14:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Barium	**35.2**		5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Beryllium	**0.775**		0.500		ug/L		12/12/22 14:06	12/13/22 14:44	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 14:44	1
Chromium	**5.79**		5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Cobalt	**20.2**		0.500		ug/L		12/12/22 14:06	12/13/22 14:44	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:44	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 14:44	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 14:44	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 14:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 18:11	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-754738/1-A
Matrix: Water
Analysis Batch: 755000

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 754738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500	U	500		ug/L		12/12/22 14:06	12/13/22 13:35	1
Iron	100	U	100		ug/L		12/12/22 14:06	12/13/22 13:35	1

Lab Sample ID: LCS 680-754738/2-A
Matrix: Water
Analysis Batch: 755000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 754738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5000	4611		ug/L		92	80 - 120
Iron	5000	4674		ug/L		93	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-754740/1-A
Matrix: Water
Analysis Batch: 755052

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 754740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Arsenic	3.00	U	3.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Barium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Beryllium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 13:49	1
Cadmium	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 13:49	1
Chromium	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Cobalt	0.500	U	0.500		ug/L		12/12/22 14:06	12/13/22 13:49	1
Copper	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Lead	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 13:49	1
Nickel	5.00	U	5.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Selenium	2.50	U	2.50		ug/L		12/12/22 14:06	12/13/22 13:49	1
Thallium	1.00	U	1.00		ug/L		12/12/22 14:06	12/13/22 13:49	1
Zinc	20.0	U	20.0		ug/L		12/12/22 14:06	12/13/22 13:49	1

Lab Sample ID: LCS 680-754740/2-A
Matrix: Water
Analysis Batch: 755052

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 754740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	58.15		ug/L		116	80 - 120
Arsenic	100	103.8		ug/L		104	80 - 120
Barium	100	110.7		ug/L		111	80 - 120
Beryllium	50.0	58.21		ug/L		116	80 - 120
Cadmium	50.0	54.60		ug/L		109	80 - 120
Chromium	100	116.2		ug/L		116	80 - 120
Cobalt	50.0	57.53		ug/L		115	80 - 120
Copper	100	117.1		ug/L		117	80 - 120
Lead	505	547.5		ug/L		109	80 - 120
Nickel	99.0	116.8		ug/L		118	80 - 120
Selenium	150	154.6		ug/L		103	80 - 120
Thallium	50.0	52.85		ug/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-754740/2-A
Matrix: Water
Analysis Batch: 755052

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 754740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	100	112.1		ug/L		112	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-754829/12-A
Matrix: Water
Analysis Batch: 755259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 754829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/13/22 08:49	12/13/22 17:35	1

Lab Sample ID: LCS 680-754829/13-A
Matrix: Water
Analysis Batch: 755259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 754829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.50	2.502		ug/L		100	80 - 120

Lab Sample ID: 680-227330-1 MS
Matrix: Water
Analysis Batch: 755259

Client Sample ID: AF50607
Prep Type: Total/NA
Prep Batch: 754829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.3308	F1	ug/L		33	80 - 120

Lab Sample ID: 680-227330-1 MS
Matrix: Water
Analysis Batch: 755260

Client Sample ID: AF50607
Prep Type: Total/NA
Prep Batch: 754829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	U F1	1.00	0.3699	F1	ug/L		37	80 - 120

Lab Sample ID: 680-227330-1 MSD
Matrix: Water
Analysis Batch: 755259

Client Sample ID: AF50607
Prep Type: Total/NA
Prep Batch: 754829

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	0.3280	F1	ug/L		33	80 - 120	1	20

Lab Sample ID: 680-227330-1 MSD
Matrix: Water
Analysis Batch: 755260

Client Sample ID: AF50607
Prep Type: Total/NA
Prep Batch: 754829

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	0.3991	F1	ug/L		40	80 - 120	8	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 680-756169/1-A
Matrix: Water
Analysis Batch: 756421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 756169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.200	U	0.200		ug/L		12/20/22 15:23	12/21/22 13:32	1

Lab Sample ID: LCS 680-756169/2-A
Matrix: Water
Analysis Batch: 756421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 756169

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			2.50	2.348		ug/L		94	80 - 120		

Metals

Prep Batch: 754738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	3005A	
680-227330-2	AF50606	Total Recoverable	Water	3005A	
680-227330-3	AF50605	Total Recoverable	Water	3005A	
680-227330-4	AF50604	Total Recoverable	Water	3005A	
680-227330-5	AF50602	Total Recoverable	Water	3005A	
680-227330-6	AF50603	Total Recoverable	Water	3005A	
680-227330-7	AF50608	Total Recoverable	Water	3005A	
680-227330-8	AF50609	Total Recoverable	Water	3005A	
680-227330-9	AF50610	Total Recoverable	Water	3005A	
MB 680-754738/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-754738/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 754740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	3005A	
680-227330-2	AF50606	Total Recoverable	Water	3005A	
680-227330-3	AF50605	Total Recoverable	Water	3005A	
680-227330-4	AF50604	Total Recoverable	Water	3005A	
680-227330-5	AF50602	Total Recoverable	Water	3005A	
680-227330-6	AF50603	Total Recoverable	Water	3005A	
680-227330-7	AF50608	Total Recoverable	Water	3005A	
680-227330-8	AF50609	Total Recoverable	Water	3005A	
680-227330-9	AF50610	Total Recoverable	Water	3005A	
MB 680-754740/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-754740/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 754829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	
680-227330-2	AF50606	Total/NA	Water	7470A	
680-227330-3	AF50605	Total/NA	Water	7470A	
680-227330-4	AF50604	Total/NA	Water	7470A	
680-227330-5	AF50602	Total/NA	Water	7470A	
680-227330-6	AF50603	Total/NA	Water	7470A	
680-227330-7	AF50608	Total/NA	Water	7470A	
680-227330-8	AF50609	Total/NA	Water	7470A	
680-227330-9	AF50610	Total/NA	Water	7470A	
MB 680-754829/12-A	Method Blank	Total/NA	Water	7470A	
LCS 680-754829/13-A	Lab Control Sample	Total/NA	Water	7470A	
680-227330-1 MS	AF50607	Total/NA	Water	7470A	
680-227330-1 MSD	AF50607	Total/NA	Water	7470A	

Analysis Batch: 755000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	6010D	754738
680-227330-2	AF50606	Total Recoverable	Water	6010D	754738
680-227330-3	AF50605	Total Recoverable	Water	6010D	754738
680-227330-4	AF50604	Total Recoverable	Water	6010D	754738
680-227330-5	AF50602	Total Recoverable	Water	6010D	754738
680-227330-6	AF50603	Total Recoverable	Water	6010D	754738
680-227330-7	AF50608	Total Recoverable	Water	6010D	754738

Metals (Continued)

Analysis Batch: 755000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-8	AF50609	Total Recoverable	Water	6010D	754738
680-227330-9	AF50610	Total Recoverable	Water	6010D	754738
MB 680-754738/1-A	Method Blank	Total Recoverable	Water	6010D	754738
LCS 680-754738/2-A	Lab Control Sample	Total Recoverable	Water	6010D	754738

Analysis Batch: 755052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total Recoverable	Water	6020B	754740
680-227330-2	AF50606	Total Recoverable	Water	6020B	754740
680-227330-3	AF50605	Total Recoverable	Water	6020B	754740
680-227330-4	AF50604	Total Recoverable	Water	6020B	754740
680-227330-5	AF50602	Total Recoverable	Water	6020B	754740
680-227330-6	AF50603	Total Recoverable	Water	6020B	754740
680-227330-7	AF50608	Total Recoverable	Water	6020B	754740
680-227330-8	AF50609	Total Recoverable	Water	6020B	754740
680-227330-9	AF50610	Total Recoverable	Water	6020B	754740
MB 680-754740/1-A	Method Blank	Total Recoverable	Water	6020B	754740
LCS 680-754740/2-A	Lab Control Sample	Total Recoverable	Water	6020B	754740

Analysis Batch: 755259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	754829
680-227330-2	AF50606	Total/NA	Water	7470A	754829
680-227330-3	AF50605	Total/NA	Water	7470A	754829
680-227330-4	AF50604	Total/NA	Water	7470A	754829
680-227330-5	AF50602	Total/NA	Water	7470A	754829
680-227330-6	AF50603	Total/NA	Water	7470A	754829
680-227330-7	AF50608	Total/NA	Water	7470A	754829
680-227330-8	AF50609	Total/NA	Water	7470A	754829
680-227330-9	AF50610	Total/NA	Water	7470A	754829
MB 680-754829/12-A	Method Blank	Total/NA	Water	7470A	754829
LCS 680-754829/13-A	Lab Control Sample	Total/NA	Water	7470A	754829
680-227330-1 MS	AF50607	Total/NA	Water	7470A	754829
680-227330-1 MSD	AF50607	Total/NA	Water	7470A	754829

Analysis Batch: 755260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1 MS	AF50607	Total/NA	Water	7470A	754829
680-227330-1 MSD	AF50607	Total/NA	Water	7470A	754829

Prep Batch: 756169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	
MB 680-756169/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-756169/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 756421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-227330-1	AF50607	Total/NA	Water	7470A	756169
MB 680-756169/1-A	Method Blank	Total/NA	Water	7470A	756169
LCS 680-756169/2-A	Lab Control Sample	Total/NA	Water	7470A	756169

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50607

Lab Sample ID: 680-227330-1

Date Collected: 12/06/22 10:22
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:08
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:30
Total/NA	Prep	7470A			756169	BCB	EET SAV	12/20/22 15:23
Total/NA	Analysis	7470A		1	756421	BCB	EET SAV	12/21/22 16:37
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:40

Client Sample ID: AF50606

Lab Sample ID: 680-227330-2

Date Collected: 12/06/22 11:34
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:11
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:33
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:48

Client Sample ID: AF50605

Lab Sample ID: 680-227330-3

Date Collected: 12/06/22 13:25
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:14
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:38
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:50

Client Sample ID: AF50604

Lab Sample ID: 680-227330-4

Date Collected: 12/06/22 14:34
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 13:50
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:14
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:53

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50602

Lab Sample ID: 680-227330-5

Date Collected: 12/07/22 10:07
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 13:59
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:22
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:55

Client Sample ID: AF50603

Lab Sample ID: 680-227330-6

Date Collected: 12/07/22 10:12
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:02
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:24
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 17:58

Client Sample ID: AF50608

Lab Sample ID: 680-227330-7

Date Collected: 12/07/22 13:42
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:05
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:27
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 18:05

Client Sample ID: AF50609

Lab Sample ID: 680-227330-8

Date Collected: 12/07/22 13:47
Date Received: 12/09/22 10:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:17
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:41
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 18:08

Lab Chronicle

Client: South Carolina Public Service Authority
Project/Site: 125915/JM02.08.G01.1/36500

Job ID: 680-227330-1

Client Sample ID: AF50610

Date Collected: 12/07/22 15:03
Date Received: 12/09/22 10:00

Lab Sample ID: 680-227330-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			754738	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6010D		1	755000	BJB	EET SAV	12/13/22 14:20
Total Recoverable	Prep	3005A			754740	RR	EET SAV	12/12/22 14:06
Total Recoverable	Analysis	6020B		1	755052	BWR	EET SAV	12/13/22 14:44
Total/NA	Prep	7470A			754829	JKL	EET SAV	12/13/22 08:49
Total/NA	Analysis	7470A		1	755259	JKL	EET SAV	12/13/22 18:11

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Contract Lab Info. TA SAV Contract Lab Due Date (Lab Only). 12 / 16 / 22 Send report to lcwillia@santeecooper.com & sjbrown@santeecooper.com

Chain of Custody

santee cooper
Santee Cooper
One Riverwood Drive
Moncks Corner, SC 29461
Phone (843)761-8000 Ext. 5148
Fax. (843)761-4175

Customer Email/Report Recipient: LINDA WILLIAMS @santeecooper.com

Date Results Needed by: ___/___/___

Project/Task/Unit #: 125915 / JM02.09.G01.1 / 36500

Rerun request for any flagged QC: (Yes) No

Analysis Group

Labworks ID # (Internal use only)	Sample Location/ Description	Collection Date	Collection Time	Sample Collector	Total # of containers	Bottle type: (Glass-G/Plastic-P)	Grab (G) or Composite (C)	Matrix(see below)	Preservative (see below)	Comments • Method # • Reporting limit • Misc. sample info • Any other notes	TOTAL METALS -SEE BELOW			
AF50607	WAP-29	12/6/22	1022	WJK BM	21	P	G	GW	2	6010 Ca Fe; 6020 As Cr Cu Ba Pb Ni Be Sb Tl Cd Se Co Tl	X			
06	WAP 28		1134											
05	WAP-27		1325											
04	WLF-A2-2		1434							Hg-747D				
AF50602	WLF-A2-1	12/7/22	1007											
03	WLF-A2-1 DUP		1012							* SEE SHEET FOR RLS.				
08	CGYP-7		1342											
09	CGYP-7 DUP		1347											
10	CCMAP-8		1503											

Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
SJBrown	35594	12/8/22	1500			12/9	10:10
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time
Relinquished by:	Employee#	Date	Time	Received by:	Employee #	Date	Time

Sample Receiving (Internal Use Only)
TEMP (°C):_____ Initial:_____
Correct pH: Yes No
Preservative Lot#: 15-1 // 15-1
Date/Time/Init for preservative:

☐ METALS (all)

☐ Ag	☒ Cu	☒ Sb
☐ Al	☒ Fe	☒ Se
☒ As	☐ K	☐ Sn
☐ B	☐ Li	☐ Sr
☒ Ba	☐ Mg	☐ Ti
☒ Be	☐ Mn	☒ Tl
☒ Ca	☐ Mo	☐ V
☒ Cd	☐ Na	☒ Zn
☒ Co	☒ Ni	☒ Hg
☒ Cr	☒ Pb	☐ CrVI

Nutrients
☐ TOC
☐ DOC
☐ TP/TPO4
☐ NH3-N
☐ F
☐ Cl
☐ NO2
☐ Br
☐ NO3
☐ SO4

MISC.
☐ BTEX
☐ Napthalene
☐ THM/HAA
☐ VOC
☐ Oil & Grease
☐ E. Coli
☐ Total Coliform
☐ pH
☐ Dissolved As
☐ Dissolved Fe
☐ Rad 226
☐ Rad 228
☐ PCB

Gypsum
☐ Wallboard
Gypsum(all below)
☐ AIM
☐ TOC
☐ Total metals
☐ Soluble Metals
☐ Purity (CaSO4)
☐ % Moisture
☐ Sulfites
☐ pH
☐ Chlorides
☐ Particle Size
☐ Sulfur

Coal
☐ Ultimate
☐ % Moisture
☐ Ash
☐ Sulfur
☐ BTUs
☐ Volatile Matter
☐ CHN
Other Tests:
☐ XRF Scan
☐ HGI
☐ Fineness
☐ Particulate Matter

Flyash
☐ Ammonia
☐ LOI
☐ % Carbon
☐ Mineral Analysis
☐ Sieve
☐ % Moisture

NPDES
☐ Oil & Grease
☐ As

Oil
☐ Trans. Oil Qual.
%Moisture
Color
Acidity
Dielectric Strength
IFT
Dissolved Gases
Used Oil
Flashpoint
Metals in oil (As,Cd,Cr,Ni,Pb Hg)
TX
GOFER

680-227330 Chain of Custody

Matrix codes: GW-groundwater, DW-drinking water, SW-surface water, WW-waste wa
C-coal, G-gypsum, FA-flyash, BA-bottom ash, M-misc (describe in comment section)
Preservative code- 1=<4°C 2=HNO_3 3=H_2SO_4 4-HCl 5=$Na_2S_2O_3$ 6-Other (Specify)

12/22/2022

Login Sample Receipt Checklist

Client: South Carolina Public Service Authority

Job Number: 680-227330-1

Login Number: 227330

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: South Carolina Public Service Authority
Job ID: 680-227330-1
Project/Site: 125915/JM02.08.G01.1/36500

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-23

Field Data Sheets

(Note: color coding is to assist with stabilization of the field parameters prior to sample collection)

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP-27	43.18	22.63	17-27	12/6/2022	1325	30.21
Drawdown:	23.63		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1300	21.49	6.12	-63	1380	1.9	1.7
1305	21.52	6.12	-82	1360	2	1.97
1310	21.52	6.11	-85	1330	3	2.64
1315	21.52	6.11	-86	1320	2.5	2.19
1320	21.99	6.11	-88	1300	3	1.98
1325	21.9	6.12	-88	1300	2.6	1.96

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Justin Kirk and

Winyah Generating Station
Area 2 Class 3 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP-27	43.18	23.17	17-27	10/20/2022	1539	30.21

Drawdown: 23.44 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1524	26.19	6.98	37	392	10	4.69
1529	25.02	6.18	-76	1150	0.9	0.85
1534	25	6.16	-78	1150	0	0.79
1539	24.99	6.16	-78	1130	0	0.75

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Justin Kirk and

Winyah Generating Station
Area 2 Class 3 Landfill Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP-22	30.32	9.91	26-36	10/20/2022	1047	39.06

Drawdown: 10.1 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
958	22.48	6.68	-49	1750	38.8	2.6
1003	22.47	6.73	-80	1790	12.4	1.38
1008	22.46	6.72	-86	1790	14.5	1.07
1013	22.4	6.71	-87	1790	12.9	0.96
1018	22.35	6.7	-88	1780	12.3	0.93
1023	22.29	6.7	-87	1780	15.6	0.9
1026	22.3	6.7	-87	1780	21.7	0.89
1029	22.32	6.7	-87	1800	19.4	0.89
1032	22.37	6.7	-86	1800	18.4	0.89
1035	22.46	6.7	-86	1800	19.4	0.88
1038	22.57	6.7	-86	1790	23.1	0.87
1041	22.68	6.7	-86	1790	23.9	0.85
1044	22.87	6.71	-86	1790	23.9	0.84
1047	23.01	6.71	-86	1790	20.4	0.82

CCR Only: As, Ba, Be, B, Ca, Cd, Co, Cr, Fe, Hg, Li, Mo, Pb, Se, Tl, Zn, dissolved As

Ra 226/228 Cl, F, SO4, TDS

Comments/Conditions:

Samples were collected by Justin Kirk and

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 26	27.56	9.56	12'-22'	7/11/2022	1141	25.95

Drawdown: 10.75 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1110	23.55	5.29	120	107	18.5	1.11
1115	23.69	5.05	89	106	10.5	0.78
1120	23.66	5.05	71	141	9.8	0.63
1125	23.73	5.04	68	157	5.1	0.6
1130	23.74	4.97	62	162	4.8	0.55
1135	23.8	4.96	57	167	5.1	0.53
1138	23.83	4.98	55	169	4.9	0.52
1141	23.81	4.97	53	171	5.3	0.5

Comments/Conditions:

DUP @ 1146

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 25	27.1	8.86	27-37	7/11/2022	1030	40.43
Drawdown:	9.01		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1015	20.69	7.21	-134	433	0	1.13
1020	20.72	7.22	-156	408	0	0.75
1025	20.97	7.23	-156	405	0	0.73
1030	21.13	7.21	-153	403	0	0.68

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 24	28.77	9.16	34-44	7/13/2022	1531	47.77
Drawdown:	11.69		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1500	22.89	7.4	-65	485	1.1	1.2
1505	22.81	7.43	-125	488	0.9	0.67
1510	22.58	7.46	-138	487	2.3	0.56
1515	22.51	7.46	-143	487	1.6	0.49
1520	22.4	7.21	-135	701	2.6	0.46
1525	22.26	7.14	-125	769	2.9	0.44
1528	22.19	7.16	-125	767	2.5	0.43
1531	22.12	7.16	-125	769	2.3	0.42

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 23	43.23	23.4	39-49	7/13/2022	1225	52.56
Drawdown:	24.46		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1154	26.36	6.59	-41	1830	15.4	1.32
1159	24.88	6.56	-68	2000	10.8	0.67
1204	24.39	6.55	-75	1990	11.1	0.54
1209	24.1	6.56	-80	1960	15	0.51
1214	23.34	6.56	-86	1880	16.5	0.46
1219	23.26	6.58	-89	1810	14.7	0.45
1222	23.14	6.59	-91	1760	14.1	0.44
1225	23.16	6.6	-92	1720	14.4	0.44

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 21	43.06	23.26	14- 24	7/14/2021	1045	27.04
Drawdown:	25.35		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1002	22.04	6.18	35	605	12.6	1.19
1007	22.71	6.18	-48	583	8.3	0.83
1012	22.8	6.21	-77	580	12.5	0.69
1017	23.66	6.26	-77	564	17.5	1.41
1022	23.01	6.33	-67	601	7.9	0.86
1027	22.56	6.27	-41	592	6.3	0.54
1030	22.57	6.29	-59	589	10.4	0.48
1033	22.46	6.3	-96	581	11.6	0.46
1036	22.63	6.31	-111	577	13.3	0.44
1039	22.68	6.33	-120	581	12.6	0.42
1042	22.7	6.33	-125	578	13.1	0.41
1045	23.06	6.34	-130	578	11.3	0.4

Comments/Conditions:

Samples were collected by Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 20	43.08	22.29	9- 19	7/6/2022		22.66

Drawdown: depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1054	31.06	6.3	-80	941	999	7.26

Comments/Conditions:

Well Ran Dry at , Low Water Volume

Since aquifer refills well and we want the equilibrium aquifer water, sample was taken automatically after we let well refill.

On 7/6/22 we attempted to take a reading and could not get the pump to prime. After, pulling the tubing out with a finger over th end very little water came up in the tubing.

Came back to well on 07/7/2022 @ 1037 and attmpted to take a reading

***During the reading we used the calibration cup and not a flow through cell. The NTU shot up to past 800 then went to zero on the reading

Came back to well on 07/11/2022 @939 collected 200 mL

Came back to well on 07/12/2022 collected very little water

Came back to well on 07/13/2022 and collected water -- well was dry and almost no wate came out

Came back to well on 07/14/2022 and collected water -- well was dry and almost no wate came out

Samples were collected by Trey West and Brad Mccray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 10	26.11	6.2	4-24	7/13/2022	1322	26.84

Drawdown: 6.78 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1302	26.44	6.51	-63	3850	1	0.83
1307	24.76	6.49	-74	3900	3.4	0.53
1312	24.1	6.47	-80	3800	4.1	0.46
1317	23.9	6.46	-84	3720	3.6	0.42
1322	23.77	6.46	-88	3630	3.6	0.4

Comments/Conditions:

DUP @ 1327

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 22	30.48	10.51	23.5-33.5	7/7/2022	1344	36.41
Drawdown:	10.96		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1319	28.45	6.61	-106	2720	4.1	0.67
1324	26.72	6.53	-113	2780	4.7	0.37
1329	26.82	6.32	-110	2900	4.7	0.35
1334	26.82	6.29	-99	3250	3.6	0.33
1339	26.31	6.32	-101	3250	3.5	0.32
1344	25.87	6.32	-101	3300	3.3	0.29

Comments/Conditions:

Samples were collected by Trey West and Damien Johnson

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 19	43.39	22.19	14-24	7/13/2022	1108	26.88

Drawdown: 22.47 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1034	23.28	4.75	-16	2390	20.6	3.4
1039	34.32	4.75	-41	2410	17.3	0.76
1044	24.5	4.92	-54	2330	16	0.68
1049	24.55	5.21	-75	2220	15.7	0.56
1054	24.48	5.45	-92	2160	15.3	0.51
1059	24.57	5.63	-108	2100	13.5	0.47
1102	24.59	5.73	-116	2070	12.5	0.45
1105	24.34	5.82	-124	2040	11.8	0.44
1108	24.38	5.88	-126	2030	10.7	0.43

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 18	31.04	11.03	7.5-17.5	7/7/2022	1443	21.86
Drawdown:	11.46		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1412	27.22	5.96	4	1790	3	0.41
1417	27.99	5.73	84	644	4.3	0.37
1422	27.7	5.73	92	557	4.6	0.45
1427	27.56	5.73	92	563	4.5	0.46
1432	27.48	5.74	89	580	4	0.42
1437	27.55	5.75	80	574	3.7	0.42
1440	27.46	5.77	74	576	3.5	0.41
1443	27.53	5.77	71	579	3.3	0.4

Comments/Conditions:

Samples were collected by Trey West and Damien Johnson

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 17	26.88	7.18	9- 19	7/12/2022	1235	21.92

Drawdown: 7.29 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1215	25.26	6.34	-77	1860	1	1.25
1220	24.32	6.01	-95	2030	0.1	0.52
1225	24.17	6.02	-99	2000	0	0.44
1230	24.43	6.04	-102	1960	0	0.43
1235	24.42	6.05	-104	1930	0	0.42

Comments/Conditions:
DUP @

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 9	28.04	10.59	9- 19	7/13/2022	1434	22.21
Drawdown:	10.66		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1400	24.57	6.25	-55	442	1.1	2.14
1405	24.85	6.3	-68	621	1.1	0.73
1410	23.93	6.24	-83	844	1.1	0.55
1415	23.78	6.19	-96	913	1.5	0.5
1420	23.64	6.19	-121	957	1.5	0.44
1425	23.75	6.17	-135	999	0.9	0.41
1428	24.04	6.17	-145	1040	0	0.37
1431	23.87	6.15	-149	1050	0	0.39
1434	23.82	6.15	-152	1060	0	0.39

Comments/Conditions:

Samples were collected by Trey West and Brad McCray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WBW - 1	31.97	9.99	7- 17	7/6/2022	1023	19.78
Drawdown:	10.12		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
958	22.89	4	260	94	9.1	5.76
1003	23.51	4.36	293	80	7.6	5.45
1008	23.78	4.33	306	80	6.5	5.06
1013	23.96	4.32	316	80	6.3	4.93
1018	24.01	4.31	322	81	5.6	4.85
1023	23.95	4.31	326	80	1.4	4.79

Comments/Conditions:

Samples were collected by Trey West and Brad Mccray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 1	29.44	7.66	4- 24	7/6/2022	1137	25.16

Drawdown: 7.74 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1103	24.07	4.67	142	88	0	1.28
1108	26.23	4.73	70	87	1.3	0.66
1113	25.92	4.74	53	86	6.9	0.56
1118	27.55	4.63	49	97	6.6	0.5
1123	26.19	4.56	54	114	2.3	0.42
1128	26.4	4.56	48	114	3	0.41
1131	27.21	4.57	46	111	4.6	0.35
1134	27.53	4.58	43	110	3.1	0.33
1137	27.62	4.59	41	109	3.8	0.32

Comments/Conditions:

Samples were collected by Trey West and Brad Mccray

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 26	27.56	8.78	12'-22'	2/24/2022	1459	25.99

Drawdown: 8.98 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1428	27.65	5.7	98	93	117	2.72
1433	27.18	5.04	218	87	61	0.65
1438	27.16	4.93	215	113	20.8	1.68
1443	27.03	4.9	205	128	13.2	1.41
1448	27.01	4.9	188	135	8.7	1.24
1453	26.77	4.91	175	139	7.8	1.06
1456	27.03	4.89	170	142	5	1
1459	27.03	4.88	166	139	7.6	0.92

Comments/Conditions:

DUP @ 1504

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 25	27.1	8.01	27-37	3/1/2022	1555	40.46
Drawdown:	8.15		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1535	23.16	7.28	-135	397	10.7	0.82
1540	22.77	7.09	-132	386	4.3	0.6
1545	22.21	7.09	-136	388	4.9	0.51
1550	22	7.08	-136	390	6.8	0.51
1555	21.95	7.08	-135	389	5.3	0.49

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 24	28.77	7.44	34-44	2/22/2022	1018	47.73

Drawdown: 9.41 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
958	21.99	7.2	-48	399	0	1.05
1003	22.11	7.8	-154	394	11.4	0.6
1008	22.26	7.82	-156	393	17	0.51
1013	22.43	7.78	-156	393	18.1	0.47
1018	22.51	7.74	-155	393	8	0.5

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 23	43.23	22.32	39-49	2/22/2022	1340	52.7
Drawdown:	23.15		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1315	24.35	6.71	-68	1330	11.7	0.98
1320	23.89	6.55	-69	1340	0	0.9
1325	23.79	6.57	-71	1290	0.4	0.92
1330	23.72	6.59	-74	1230	0	0.82
1335	23.57	6.61	-75	1220	2.4	0.78
1340	23.5	6.62	-77	1190	1.8	0.78

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 21	43.06	22.3	14- 24	2/22/2022	1204	27.09

Drawdown: 23.6 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1149	24.44	6.61	-5	501	100	0.94
1154	23.42	6.37	15	509	33.6	0.55
1159	23.17	6.37	18	510	17.9	0.55
1204	23.23	6.33	14	512	10.8	0.5

Comments/Conditions:
Low GW Depth, as screen is 14-24, GW Depth at 22.3

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 20	43.08	21.96	9- 19	2/22/2022	1037	22.41

Drawdown: depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1030	22.78	6.11	-46	825	542	8.53

Comments/Conditions:
Well Ran Dry at 1350, Low Water Volume
automatically after we let well refill.
Came back to well around 1030 02/23/2022 and collected a reading with low water
Came back to well on 02/23/2022 @ 1422 and collected 2/3 of a 250 mL bottle
Came back to well on 02/28/2022 @917 collected 200 mL
Came back to well on 02/28/2022 @ 1605 and collected another 200mL.
Came back to well on 03/01/2022 @ 1005 and collected water
Came back to well on 08/05/2021 @ 1310 and collected more water from well
Came back to well on 08/10/2021 @ 1051 and collected more water from well
Came back to well on 08/10/2021 @ 1536 and collected more water from well

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 10	26.11	5.24	4-24	2/21/2022	1448	26.88

Drawdown: 5.69 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1423	23.8	6.5	-79	3930	53.3	0.55
1428	23.17	6.48	-82	3930	35.9	0.48
1433	22.67	6.48	-83	3960	21.8	0.4
1438	22.26	6.48	-82	3960	15	0.38
1443	22.29	6.49	-83	3960	15.8	0.36
1448	22.19	6.5	-84	3950	15.3	0.34

Comments/Conditions:
DUP @ 1453

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 22	30.48	10.12	23.5-33.5	2/23/2022	1400	36.47
Drawdown:	10.29		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1332	24.52	6.5	-97	3480	185	0.5
1337	24.86	6.51	-99	3450	103	0.45
1342	25.09	6.52	-98	3440	75.6	0.41
1347	24.77	6.52	-97	3420	64	0.38
1352	24.49	6.53	-97	3420	54.2	0.37
1357	24.25	6.53	-96	3420	48.9	0.35
1400	24.25	6.53	-95	3410	39.8	0.34

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 19	43.39	24.22	14-24	2/22/2022	1514	26.9

Drawdown: 24.6 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1449	25.14	6.82	-62	1550	71.1	0.98
1454	25.03	6.79	-77	1570	28.4	0.82
1459	25.15	6.8	-108	1570	11.3	0.57
1504	25.56	6.8	-113	1500	7.9	0.4
1509	25.57	6.8	-114	1480	0	0.38
1514	25.82	6.81	-116	1460	3.6	0.37

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 18	31.04	10.59	7.5-17.5	2/23/2022	1218	20.88
Drawdown:	10.81		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1147	23.94	5.51	105	426	0	1.66
1152	23.23	5.43	135	427	33.9	1.88
1157	23.78	5.43	133	430	20.4	1.23
1202	23.96	5.44	132	434	14.8	0.91
1207	24	5.46	121	435	10.6	0.76
1212	24.2	5.47	113	437	8.5	0.67
1215	24.18	5.47	117	437	9.7	0.62
1218	23.96	5.49	114	439	9.7	0.6

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 17	26.88	6.38	9- 19	2/24/2022	1337	21.93

Drawdown: 6.46 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1300	30.2	6.65	-14	1330	24.4	3.4
1305	29.59	6.43	-1	1350	25.7	3.17
1310	29.14	6.4	-2	1340	25	2.78
1315	28.68	6.4	-9	1340	24.3	2.54
1320	28.37	6.38	-16	1350	22.1	2.32
1325	28.07	6.37	-23	1340	21.5	2.06
1328	27.81	6.37	-27	1330	17.8	1.94
1331	27.31	6.36	-29	1350	20.7	1.84
1334	27.15	6.35	-32	1340	19	1.72
1337	27.04	6.35	-33	1340	18.8	1.61

Comments/Conditions:
DUP @ 1342

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 9	28.04	9.98	9- 19	2/22/2022	1115	22.22

Drawdown: 10.04 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1050	22.4	6.35	-39	1090	0	0.81
1055	22.39	6.1	-31	1170	0.8	0.47
1100	22.2	6.09	-34	1200	3.1	0.37
1105	22.34	6.07	-37	1220	0.1	0.32
1110	22.4	6.07	-40	1240	0	0.3
1115	22.4	6.08	-43	1250	0	0.28

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WBW - 1	31.97	10.42	7- 17	2/15/2022	1124	19.82
Drawdown:	10.55		depth to GW (ft)			

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1050	18.84	4.46	269	71	63	7.92
1055	18.2	4.2	325	65	54.5	7.86
1100	17.56	4.18	338	65	48.9	7.88
1105	17.89	4.17	347	64	43.2	7.7
1110	17.91	4.13	351	64	30.1	7.66
1115	17.93	4.14	372	64	20.8	7.56
1118	17.92	4.14	377	64	14.7	7.54
1121	17.91	4.15	382	64	9.5	7.45
1124	18.06	4.16	385	64	5.8	7.34

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Winyah Generating Station
CCR Groundwater Monitoring Wells

Well ID	TOC Elevation (feet)	GW Depth (feet)	Screen Intervals (ft, bgs)	Sample Date	Sample Time	Total Well Depth
WAP - 1	29.44	6.79	4- 24	2/15/2022	1234	25.19

Drawdown: 6.86 depth to GW (ft)

Time	Temp round 1 (celcius)	pH round 1 (units)	Eh ORP (mV)	Spec Cond round 1 (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (ppm)
1203	19.48	4.6	117	83	0	1.3
1208	19.88	4.52	49	81	8.5	0.49
1213	20.22	4.54	41	82	7.9	0.41
1218	20.45	4.57	34	81	9.1	0.36
1223	20.55	4.58	33	81	4	0.32
1228	20.88	4.58	29	81	0	0.37
1231	20.78	4.6	35	81	0	0.35
1234	20.92	4.58	35	81	0	0.34

Comments/Conditions:

Samples were collected by Ben Taylor and Brian Brase

Appendix C – Well Installation Record

Save | Reset | Home | ? (These Buttons Do Not Print)

DHEC — PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SANTEE COOPER (last) (first)
Address: ONE RIVERWOOD DRIVE
City: MONCKS CORNER State: SC Zip: 29461
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** GEORGETOWN
Name: WINYAH GENERATING STATION
Street Address: 661 STEAM PLANT DRIVE
City: GEORGETOWN Zip: 29440
Latitude: 33° 19' 53.57" Longitude: 79° 21' 33.16"

3. PUBLIC SYSTEM NAME: WAP-22 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 0.0 ft. to 30.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ABANDONED VIA TREMIE PIPE		
WITH PORTLAND BENTONITE		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
5.0 GALLONS PORTLAND BENTONITE

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 30.0 ft. Date Started: 09/15/22 Date Completed: 09/15/22

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: CARL CARPENTER **CERT. NO.:** 02317
Address: (Print) Level: A B C D (circle one)
176 COMMERCE BLVD
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ (Well Driller) Date: 09/22/22

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Save | Reset | Home | ? (These Buttons Do Not Print)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SANTEE COOPER (last) (first)
Address: ONE RIVERWOOD DRIVE
City: MONCKS CORNER State: SC Zip: 29461
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** GEORGETOWN
Name: WINYAH GENERATING STATION
Street Address: 661 STEAM PLANT DRIVE
City: GEORGETOWN Zip: 29440
Latitude: 33° 19' 53.57" Longitude: 79° 21' 33.16"

3. PUBLIC SYSTEM NAME: WAP-22 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TOPSOIL	1.0	1.0
BROWN SILTY CLAY	9.0	10.0
GRAY SILTY SAND	10.0	20.0
FLOWING SAND	16.0	36.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL 22.0 - 24.0 FEET
CASING GROUTED 0.0 - 20.0 FEET

6. TYPE: ☑ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 36.0 ft. Date Started: 09/13/22 Date Completed: 09/15/22

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 26.0 ft. depth
6.0 in. to 20.0 ft. depth
Height: Above ☑ Below ☐
Surface 2.5 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 26.0 ft. and 36.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 20.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 24.0 ft. to 36.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 22.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: CARL CARPENTER **CERT. NO.:** 02317
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☐ ☑ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 09/22/22
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SANTEE COOPER (last) (first)
Address: ONE RIVERWOOD DRIVE
City: MONCKS CORNER State: SC Zip: 29461
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** GEORGETOWN
Name: WINYAH GENERATING STATION
Street Address: 661 STEAM PLANT DRIVE
City: GEORGETOWN Zip: 29440
Latitude: 33° 19' 53.57" Longitude: 79° 21' 33.16"

3. PUBLIC SYSTEM NAME: WAP-27 **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TOPSOIL	1.0	1.0
BROWN SILTY CLAY	9.0	10.0
GRAY SILTY SAND	10.0	20.0
FLOWING SAND	7.0	27.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BENTONITE SEAL 13.0 - 15.0 FEET

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☑ Other AUGER

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 27.0 ft. Date Started: 09/13/22 Date Completed: 09/13/22

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 17.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☑ Below ☐
Surface 2.5 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 17.0 ft. and 27.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 20.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: _____

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 15.0 ft. to 27.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 13.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☐
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: CARL CARPENTER **CERT. NO.:** 02317
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☑ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Well Driller Date: 09/22/22

If D Level Driller, provide supervising driller's name: