2024 Semiannual Groundwater Monitoring and Corrective Action Report

PLANT McMANUS

Former Ash Pond 1 (AP-1)

Prepared for:

GEORGIA POWER COMPANY

Atlanta, Georgia

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February 28, 2025

Georgia Power Company

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CERTIFICATION STATEMENT

This 2024 *Semiannual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McManus– Former Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Resolute Environmental & Water Resources Consulting, LLC (Resolute). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

EnSafe, Inc.

Signature: _____
Steven Hodskins, P.E.

Date: 02/28/2025

SUMMARY

This summary of the 2024 Semiannual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from July 2024 through December 2024 (the Semiannual reporting period) at Georgia Power Company's (Georgia Power's) Former Ash Pond (AP) AP-1 at Plant McManus (the Site). This summary was prepared by Resolute Environmental and Water Resources Consulting, LLC. (Resolute) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste 391-3-4-.10, and by reference, Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant McManus is located at 1 Crispen Island Drive in Glynn County, Georgia, approximately 5.37 miles northwest of the city of Brunswick. The plant property is bordered by the Turtle River to the west and by Burnett Creek to the north. The former AP-1 is located on the northeastern portion of the plant property. The former AP-1 was an approximately 80-acre ash pond that was built in the late 1950's. Ash sluicing operations at AP-1 commenced in 1959 and ceased in 1972. Closure of AP-1 commenced in 2016. As part of closure, AP-1 was dewatered sufficiently to remove the free liquids, and ash was removed and disposed of in an offsite permitted landfill. A certification of removal report demonstrating completion of removal activities was submitted to the Georgia Environmental Protection Division (GA EPD) on November 27, 2019. Based on review of the report and an inspection of AP-1 on December 13, 2019, GA EPD acknowledged the completion of CCR removal on January 10, 2020. The final CCR Permit for the Plant McManus Ash Pond was issued by GA EPD Friday June 18, 2021 (063-030D (CCR)).

Former Ash Pond (AP-1) and the Site.

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between August 2016 and May 2018. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures were established in August 2019 and July 2020, respectively. An *Assessment of Corrective Measures Report* was subsequently prepared for the former AP-1 (Arcadis, 2020b) and submitted to GA EPD in December 2020. During the Annual reporting period, the Site remained in assessment monitoring as corrective measures were evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD in February 2023 with revisions provided on January 18, 2024. Following the approval of GA EPD Watershed and Land Branch approval of the *MCM-06 Pilot Study Workplan* (Arcadis 2024b) on June 26 and August 2, 2024,

[1] 80 CFR 21468, Apr. 17, 2015, as amended at 81 CFR 51807, Aug. 5, 2016; 83 CFR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

respectively, a pilot study was initiated at former AP-1 in support of the ongoing remedy selection process.

During the 2024 Semiannual reporting period, Resolute conducted the semiannual groundwater and surface water sampling event in September 2024. Samples were submitted to GEL Laboratories (GEL) for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells provided in the table below.

Appendix III Constituents	**September 2024**
Boron	MCM-12 and MCM-17
pH	MCM-05, MCM-06, MCM-07, MCM-12, MCM-14 and MCM-17
Appendix IV Parameter[4]	**September 2024**
Arsenic	MCM-06
Lithium	DPZ-02

Based on review of the Appendix III and Appendix IV statistical results, the Site will continue in assessment monitoring. An alternate source demonstration (ASD) was approved for lithium at wells MCM-06 and DPZ-02 on May 1, 2023 by GA EPD (Arcadis 2023). Georgia Power will continue routine groundwater monitoring, reporting, and groundwater remedy evaluation at the Site. Reports will be posted to the Georgia Power CCR website and provided to GA EPD semiannually.

[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

[4] An SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the CCR rule specified level (RSL), if no MCL is available, or the calculated background interwell tolerance limit.

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, this *2024 Semiannual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power's) Plant McManus Former Ash Pond AP-1 (the Site) and satisfy the requirements of § 257.90(e). To specify groundwater monitoring requirements, Georgia EPD rule 391-3-4-.10(6)(a) incorporates by reference the USEPA CCR rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015). For ease of reference, the USEPA CCR rules are cited within this report.

Groundwater monitoring and reporting for the former AP-1 is performed in accordance with the monitoring requirements of 40 CFR 257.90 through 257.95 of the USEPA CCR rule, and Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6).

This report documents semiannual monitoring activities completed from July 2024 through December 2024 (the reporting period) and includes the required report components in accordance with 40 CFR 257.90(e).

1.1 SITE LOCATION AND DESCRIPTION

The Site is located at 1 Crispen Island Drive in Glynn County, Georgia, approximately 5.37 miles northwest of the city of Brunswick. The plant property is bordered by the Turtle River to the west and by Burnett Creek to the north. The former AP-1 is located on the northeastern portion of the plant property (Figure 1).

The former AP-1 was an approximately 80-acre ash pond that was built in the late 1950's. Ash sluicing operations at AP-1 commenced in 1959 and ceased in 1972. Closure of AP-1 commenced in 2016. As part of closure, AP-1 was dewatered sufficiently to remove the free liquids, and ash was removed and disposed of in an offsite, permitted landfill. A certification of removal report demonstrating completion of removal activities was submitted to GA EPD on November 27, 2019. Based on review of the report and an inspection of AP-1 on December 13, 2019, GA EPD acknowledged the completion of CCR removal on January 10, 2020. The final CCR Permit (No. 063-030D(CCR)) for the Plant McManus Ash Pond was issued by GA EPD on June 18, 2021. The former AP-1 is monitored by an on-site network of piezometers and wells to define groundwater elevation, flow direction, and monitor groundwater condition. The locations of the wells and piezometers are shown on Figures 2 and 3, respectively; well and piezometer construction details are listed in Tables 1 and 2, respectively.

1.1.1 Regional Geology

The aquifer systems in Brunswick, Glynn County, GA are: (1) the surficial aquifer, (2) the Brunswick aquifer (Upper and Lower) and (3) the Floridan aquifer system (Upper and Lower). The Floridian aquifer system can extend to depths beyond 2,000 feet or more (Clark et al. 1990, Maslia and Prowell,1990; Jones et.al 2002). The uppermost regional aquifer is the surficial aquifer. In the Brunswick area, this aquifer extends to a depth of approximately 180 feet. Although the surficial aquifer is defined on a regional scale as extending to approximately 180 feet below ground surface, Clarke et al. (1990) acknowledge that localized lower permeability units can create confined or semi-confined conditions within limited areas of the surficial aquifer (ATC Associates Inc., 1997).

Regionally, the surficial aquifer is composed of geologic formations overlying the Hawthorn Formation. These formations include the Satilla, Charlton, and Raysor Formations, as well as undifferentiated Holocene, Pleistocene, Pliocene and late-Miocene deposits. In the Brunswick area, the Satilla is described as extending to approximately 28 feet below ground surface and the Cypresshead to approximately 50 feet below ground surface. Underlying the Satilla and Cypresshead Formations are sands, gravels, and clays which have been described by Weems and Edwards (2001) as two pairs of alternating confining units and water-bearing zones of the Ebenezer Formation. These alternating units of the Ebenezer Formation are described as an uppermost confining unit extending from approximately 50 to 75 feet below ground surface, followed by a water-bearing zone from approximately 75 to 110 feet below ground surface, another confining unit from approximately 110 to 150 feet below ground surface, and then another water-bearing zone from approximately 150 to 185 feet below ground surface. Depositionally, these sediments represent marginal to shallow marine beds, that are overlain by marine terrace deposits. Fluvial or residual deposits overlay the terrace deposits (Miller, 1986; Clarke et al, 1990).

The regional surficial aquifer is underlain by approximately 90 feet of lower-permeability portions (Miocene Unit A) of the Hawthorn Formation. This stratum forms the upper confining bed for the Brunswick aquifer system. The Brunswick aquifer system is composed of two confined aquifers (the Upper Brunswick aquifer and the Lower Brunswick aquifer) which are separated and confined above and below by less permeable units of the Hawthorn Formation. The Upper Brunswick aquifer extends from approximately 270 feet to 350 feet below ground surface, and the Lower Brunswick aquifer extends from approximately 400 feet to 470 feet below ground surface (Clarke *et al*, 1990).

1.1.2 Site Geology and Hydrogeology

Based on information collected during subsurface investigations, Plant McManus is underlain by very fine sands and clays from land surface (or beneath a shallow fill layer) to depths ranging from 33 to 43 feet below land surface. Very fine sands are predominant, but discontinuous clay layers of varying thickness were encountered during drilling activities. The clay layers varied from less than one inch to approximately ten feet in thickness. These very fine sands and discontinuous clay layers are interpreted to be the Upper Satilla Formation (ATC Associates, Inc., 1997).

Underlying the Upper Satilla Formation are fine to medium sands with greater silt content, and apparently lower permeability, than the sands of the Upper Satilla. These siltier sands, which were interpreted to be the Lower Satilla Formation, were encountered at depths greater than 35 feet below ground surface during the Site investigation performed in the 1990s (ATC Associates Inc., 1997). These sands may also correspond to the Cypresshead Formation of Huddleston (1988). Sands and clays below the Cypresshead and above the confining unit of the Brunswick aquifer system have been described by Weems and Edwards (2001) as two pairs of alternating confining units and water-bearing zones of the Ebenezer Formation, extending from approximately 50 to 185 feet below ground surface in the Brunswick area.

The regional surficial aquifer that contains the Upper and Lower Satilla Formations is underlain by approximately 90 feet of lower-permeability portions (Miocene Unit A) of the Hawthorn Formation. This stratum forms the upper confining bed for the Brunswick aquifer system.

The surficial aquifer underlying the mainland, marsh, and island is composed of the very fine to fine grain sand with discontinuous clay layers of the Upper and Lower Satilla Formation. In the marsh, the groundwater elevation at low tide is below the top of the marsh surface. The upper portion of the aquifer in the marsh has been cut by tidal creeks, which meander through the marsh. In addition to current and historically recent (pre-ash pond construction) tidal channels, the marsh is also likely to have paleo (pre-historic) tidal channels present throughout the upper portion of the aquifer in the marsh area, which may provide zones of higher hydraulic conductivity or isolated pockets of groundwater. Vertically, the Satilla formation fines downward to a silty fine sand of the Lower Satilla Formation. The aquifer is generally unconfined, with localized clay layers. Groundwater flowing within the surficial aquifer is separated from deeper aquifers by approximately 90 feet of lower-permeability portions of the Hawthorn Formation (Miocene Unit A) that form the upper confining bed for the Brunswick aquifer system (Clarke et al, 1990).

Groundwater flows from two directions toward the former AP-1. One groundwater flow component originates on the mainland, northeast of the facility, and flows southwest, while the other flow component originates on Crispen Island and flows north and northeast (Figures 4-7). Groundwater elevations in the monitoring wells on the mainland (MCM-02, -15, and -16) and on the island (MCM-08, and -11) have consistently exhibited higher groundwater elevations than the monitoring wells and piezometers installed along the dikes (Table 3), with MCM-01 and -04 exhibiting intermediate elevations between the mainland and dike wells. The potentiometric surface of the surficial aquifer and the resultant groundwater flow direction in the vicinity of the former AP-1 is a reflection of the topography of the mainland, Crispen Island, and the tidal marsh surrounding the area.

1.2 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer around former AP-1. The monitoring system is designed to monitor groundwater passing the waste boundary of the former AP-1 within the uppermost aquifer. As

part of the assessment monitoring program, DPZ-02, an assessment monitoring well, was added to the program during the 2020 semiannual monitoring program to vertically characterize the nature and extent of groundwater downgradient of former AP-1.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the Assessment of Corrective Measures (ACM) program.

The construction and location of the detection monitoring wells, assessment wells, and piezometers are shown on Tables 1 and 2 and Figures 2 and 3.

2.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

As required by § 257.90(e), the following describes monitoring-related activities performed during the reporting period and discusses any change in status of the monitoring program.

2.1 WELL INSTALLATION, MAINTENANCE, AND ABANDONMENTS

On June 1, 2024, two piezometers (INW-01 and DR-03) were installed along the former AP dike in the vicinity of MCM-06 as part of the pilot study network (Arcadis, 2024b). These piezometers were installed at the end of the previous reporting period during final production of the annual report. INW-01 serves as an injection well and DR-03 serves as a dose response well during the pilot study injection. Well construction and installation details are presented in Well Installation Report submitted September 27, 2024 to GA EPD and presented in Appendix A of this report.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In September 2024, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix A. In summary, maintenance activities for this reporting period included:

- Visual inspection of well conditions prior to sampling, recording Site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.
- Installation of new AquaTroll 600 transducers in wells PT-03, DR-02, and DR-03 prior to the pilot study; transducers were removed in October 2024 and Aqua Troll 200 transducer was reinstalled in PT-03.
- Removal of Aqua Troll 200 transducer from MCM-05 due to faulty cable

2.2 ASSESSMENT MONITORING

Based on results of the August 2019 *Annual Groundwater Monitoring and Corrective Action Report*, assessment monitoring was initiated at the Site. Currently identified SSLs of Appendix IV constituents exceeding their respective Groundwater Protection Standard (GWPS) at former AP-1 are arsenic in MCM-06 and lithium in DPZ-02. An alternate source demonstration (ASD) was approved by GA EPD for lithium at wells MCM-06 and DPZ-02 on May 1, 2023 (Arcadis, 2023).

Pursuant to § 257.96, an *Assessment of Corrective Measures Report* (ACM) was initiated for the former AP-1 on July 9, 2020. An *Assessment of Corrective Measures Report* (ACM Report) was subsequently prepared for the former AP-1 (Arcadis, 2020b) and submitted to GA EPD in December 2020 and posted to the CCR compliance website in January 2021. A Draft Remedy Selection Report was submitted to GA EPD on February 28, 2023, with revisions provided on January 18, 2024, and is currently under review. In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy

design. Georgia Power submitted a Pilot Study Workplan to GA EPD on April 30, 2024. The GA EPD Watershed Protection Branch approved the request in a letter dated June 26, 2024. The GA EPD Land Protection Branch approved the implementation of the pilot study in a letter dated August 2, 2024. The pilot study activities are detailed in Appendix B– Semiannual Pilot Study Progress Report (Arcadis 2025). In accordance with § 257.96(b), groundwater continues to be monitored at the former AP-1 under the assessment monitoring program while the ACM phase is implemented.

Pursuant to § 257.95(b), the monitoring wells of the certified compliance monitoring network were sampled for the complete list of Appendix III and Appendix IV parameters in the monitoring event conducted in September 2024 (Table 4). A summary of the analyses collected is provided in Table 5. Details of these events and analytical results are discussed in Section 3, with the field sampling and calibration reports and laboratory analytical reports presented in Appendix C. The statistical results are discussed in Section 4.

2.3 ADDITIONAL EVALUATIONS

2.3.1 Assessment of Corrective Measures

Following GA EPD's approval of the *MCM-06 Pilot Study Workplan* (Arcadis 2024b), a pilot study was initiated at former AP-1 in support of the ongoing remedy selection process. During the reporting period, additional baseline sampling was performed in June and July 2024 at the proposed pilot-study well network. Pilot study injections activities were performed from August 13 to August 20, 2024. A post-injection performance sampling regime was implemented following the pilot injection event. Refer to section 6.2 and Appendix B for details of the Assessment of Corrective Measures.

2.3.2 Surface Water Sampling

To assess horizontal delineation of arsenic, Georgia Power has proactively completed additional sampling to assess concentrations of arsenic in surface water in the tidal salt marsh since February 2020. Surface water samples are collected in accordance with USEPA Region 4 Science and Ecosystem Support Division (SESD), Operating Procedure, Surface Water Sampling SESDPROC-201-R5 (December 23, 2021).

<u>September 2024 Sampling</u>

In September 2024, surface water samples were collected during high tide (HT, HTS) from each point along transect T2 (Figure 8). Low tide surface water samples (LT) were collected from Transect 2 (T2) at the fourth location (i.e., T2-4). Background samples were collected at high tide background location BG-2HT, located in the Turtle River, north of its confluence with Gibson Creek, and low tide background location BG-1LT, in Cowpen Creek, north of its confluence with Burnett Creek.

Surface water collected during the events was analyzed for arsenic, Appendix III parameters, and additional geochemical parameters (magnesium, potassium, sodium, alkalinity). The laboratory reports associated with the surface water sampling events are provided in Appendix D and a summary of the results are presented in Table 6. Surface water data from this reporting period are consistent with historical results. Surface water sampling will continue on a semiannual basis to support ongoing assessment monitoring.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to conduct groundwater and surface water monitoring, as well as the sampling results that were obtained from sampling events at the former AP-1 during the reporting period.

3.1 GROUNDWATER ELEVATION MEASUREMENT

Prior to each sampling event, groundwater levels were recorded from piezometers and wells in the network at the former AP-1. Groundwater measurements were taken from transducers installed in 16 wells (MCM-01, -02, -04 through -07, -11, -12, -14 through -20, and DPZ-02) and 17 piezometers (MCM-03, -08, -10 -13, PZ-09 through PZ-12, DPZ-01, DPZ-03 through -06, and PT-01 through PT-04D). When other wells and piezometers in the network are utilized for potentiometric surface maps, they are gauged by hand using a Heron water level indicator. Groundwater elevations calculated during the September 2024 monitoring event are summarized in Table 3. Groundwater elevation data was used to develop a high tide and low tide potentiometric surface elevation contour map for each event (Figures 4-7). Groundwater flow at the Site is discussed in Section 1.1.

3.2 GROUNDWATER GRADIENT AND HORIZONTAL FLOW VELOCITY

The horizontal groundwater flow velocity at the former AP-1 was calculated using a derivation of Darcy's Law. Specifically,

$$V = \frac{K * i}{\eta_e}$$

Where:

$V =$ Groundwater flow velocity $\left(\frac{feet}{day}\right)$

$K =$ Average Hydraulic Conductivity $\left(\frac{feet}{day}\right)$

$i =$ Horizontal hydraulic gradient $\left(\frac{feet}{feet}\right)$

$\eta_e =$ Effective porosity

Horizontal groundwater flow velocities were calculated for two well pairs at high and low tide using groundwater elevations collected on September 10, 2024. Groundwater flow velocities representing groundwater historically flowing from the mainland to former AP-1 (between MCM-16 and MCM-02) and from the island to former AP-1 (between MCM-11 and MCM-12) are presented in Table 7.

Groundwater flow between MCM-16 and MCM-02 was 0.034 feet per day (ft/day) at low tide and 0.037 ft/ day at high tide in September 2024, while groundwater flow between MCM-11 and MCM-12 was 0.058 ft/ day at low tide and 0.065 ft/day at high tide. During the September 2024 event, the gradient was relatively flat (approximately 0.03 ft/day), and positive, indicating a flow from MCM-16 toward MCM-02. A continuous net flow outward from the pond to the surface water had been observed since September 2022 through March 2024 as a function of the maintained pond surface water elevation. An outward groundwater flow from the pond was observed during the September 2024 event at low tide conditions. However, an inward groundwater flow towards the pond was observed during the September 2024 event at high tide conditions. It should be noted that observed tides were above average during the September 2024 event. Additionally, the pond effluent is now equipped with a floating weir to manage pond level and allows for surface water/pond water exchange. The overall groundwater conditions at the pond still appear to yield a net outward flow given the periodicity of the tidal conditions compared to adjacent monitoring well groundwater elevations.

Groundwater elevation fluctuations along the western dike have been previously observed due to the tidal influence interaction between the marsh-side surface water and groundwater well elevations. Previous groundwater observations have displayed an approximate 40-minute delay from when surface water reaches its greatest elevation until groundwater elevations are influenced. The groundwater gradient from MCM-11 to MCM-12 indicates a groundwater flow direction from the former island to the marsh at both high and low tides. For September 2024, groundwater flow velocities were 13.50 (MCM-16 to -02) and 23.57 (MCM-11 to -12) feet per year (ft/yr) at high tide and 12.57 (MCM-16 to -02) and 21.18 (MCM-11 to -12) ft/yr at low tide.

3.3 GROUNDWATER SAMPLING

Groundwater samples were collected from the compliance well network and select piezometers using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using a peristaltic pump with the intake tubing lowered to the midpoint of the well screen (or as appropriate determined by the water level). QED dedicated pumps are utilized in monitoring wells MCM-01, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-15, MCM-16, and MCM-17. Non-disposable equipment was decontaminated before use and between well locations.

An AquaTroll 400 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential [ORP]) during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we (or similar) 1970-USEPA and ISO Compliant Model turbidity meter.

Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- ± 5% for specific conductance

- ± 0.2 milligrams per liter (mg/L) or ± 10%, whichever is greater for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measurements less than or equal to 5 nephelometric turbidity units (NTU) or measurements between 5 to 10 NTUs following three hours of purging.

Once stabilization was achieved, samples were collected in appropriately preserved laboratory-supplied containers and placed in ice-packed coolers. No filtered samples were collected during this reporting period for Appendix III and IV analyses.

Upon completion of the sampling event in September 2024, samples were submitted to GEL for Appendix III and IV analysis. Sample submittals followed chain-of-custody protocol. The field sampling forms generated during this reporting period are included in Appendix C.

3.4 LABORATORY ANALYSES

Laboratory analysis was performed by GEL, which is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all Appendix III and Appendix IV constituents and geochemical parameters analyzed for this project.

The groundwater analytical results from this reporting period are summarized in Table 5, and the laboratory analytical reports are provided in Appendix C. This excludes the 2024 ACM performance events which are included in Appendix B – Semiannual Pilot Study Progress Report. The surface water results for the reporting period are summarized in Table 6, and the laboratory analytical reports are provided in Appendix D. The pH field measurements recorded during the groundwater and surface water sampling events are also provided in Tables 5 and 6, respectively.

3.5 QUALITY ASSURANCE AND QUALITY CONTROL

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of a least one set of field blanks (FB), field equipment rinsate blanks (EB), and duplicate (DUP) samples per every 10 samples collected. QA/QC sample data were evaluated during groundwater data validation (as described below) and are included in Appendix C.

Groundwater quality data for the assessment events were independently validated by Environmental Standards in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). Based on the data validation, the data collected during the reporting period are acceptable for meeting project objectives. The associated data validation results are provided in Appendix C with the laboratory reports.

4.0 STATISTICAL ANALYSIS

Statistical analysis of the reporting period groundwater monitoring data was performed by Groundwater Stats Consulting, LLC (GSC), following the appropriate certified statistical methodology for the Site. The reports generated from the statistical analyses are provided in Appendix E (GSC, 2024). A summary of methods and results is provided in the following sections.

4.1 METHODS

The statistical method used at the Site was developed by GSC using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, US EPA 530/ R-09-007 (US EPA, 2009). To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III and IV parameter. Sanitas groundwater statistical software was used to screen the data and perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations.

Appendix III statistical analysis was performed to determine if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to determine if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in Appendix E and summarized in Sections 4.1.1 and 4.1.2.

4.1.1 Appendix III Constituents

The statistical test used to evaluate the groundwater monitoring data was the interwell prediction limit (PL) method for Appendix III constituents (boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids [TDS]) combined with the option of a 1-of-2 verification resampling strategy. Interwell prediction limits, constructed from all available pooled upgradient well data were used to evaluate the most recent compliance sample from each downgradient well reported during the September 2024 sampling event.

If data from a sampling event initially exceeds the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an SSI is determined. When the resample result does not verify the initial result, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix IV Constituents

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified

Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to supplemental (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified. GWPS were established for statistical comparison of Appendix IV constituents and are presented in Table 8.

4.2 STATISTICAL ANALYSES RESULTS

Based on review of the full Appendix III statistical analysis discussion presented in Appendix E, groundwater conditions have not returned to background and assessment monitoring should continue. Review of the Sanitas results indicates that using the GWPS established according to both 40 CFR §257.95(h) and 391-3-4-.10(6)(a), the following Appendix IV SSLs were identified during the current reporting period:

<u>September 2024 Assessment Monitoring Event</u>
AP-1 (Federal and GA EPD CCR Rule):

- Arsenic: MCM-06
- Lithium: DPZ-02

An ASD was approved for lithium at MCM-06 and DPZ-02 by GA EPD on May 1, 2023 (Arcadis 2023).

Based on EPD guidance, groundwater trends at wells with SSLs were further evaluated by GSC using the Sen's Slope/Mann Kendall trend tests. A statistically-significant decreasing trend was identified for arsenic at MCM-06 and no statistical trend was identified for lithium at DPZ-02 following the September 2024 groundwater sampling event. Trends will continue to be evaluated as data is collected in future monitoring events. The full report generated from the analyses is provided in Appendix D.

5.0 NATURE AND EXTENT

The SSL previously identified for arsenic at MCM-06 is vertically delineated below the GWPS by assessment well DPZ-02.

As described in Section 2.3.2, to assess horizontal delineation of arsenic, Georgia Power proactively collected surface water samples from along Transect T2 in the tidal marsh adjacent to well MCM-06 of former AP-1. Arsenic was not detected above the Georgia instream water quality standard for dissolved arsenic for marine estuary environments (0.036 mg/L) using a laboratory reporting limit of 0.01 mg/L in surface water samples collected to date (Table 6); therefore, no impacts to surface water have been detected and horizontal delineation is complete.

The groundwater data from the September 2024 assessment monitoring events were used to generate the arsenic iso-concentration map presented on Figure 9.

6.0 MONITORING PROGRAM STATUS

6.1 ASSESSMENT MONITORING STATUS

Pursuant to 40 CFR 257.96(b), Georgia Power will continue to monitor the groundwater at the former AP-1 in accordance with the assessment monitoring program regulations of 40 CFR 257.95 as corrective measures to address arsenic in MCM-06 are evaluated. Pursuant to § 257. 95(g)(1)(iv), the assessment wells will continue to be sampled as part of the ongoing semiannual assessment groundwater monitoring program.

6.2 ASSESSMENT OF CORRECTIVE MEASURES

A *Draft Remedy Selection Report* was submitted to GA EPD on February 28, 2023 (Arcadis 2023). A revision to the *Draft Remedy Selection Report* was submitted on January 18, 2024 (Arcadis 2024) to correct a typographical error. The *Draft Remedy Selection Report* was submitted under separate cover and is currently being reviewed by GA EPD. The report summarizes:

(i) the current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Arcadis, 2020b);
(ii) an evaluation of each corrective measure retained for further consideration following the completed investigations; and,
(iii) an evaluation of corrective measure options using the comparative criteria such as long-term and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for former AP-1.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. As discussed in Section 2.3.1, Georgia Power collected baseline data from wells prior to implementation of a remedial action pilot study. Georgia Power submitted a pilot study workplan and in situ injection request to GA EPD on April 30, 2024 that summarizes the baseline data collected to date, treatability study results, and additional data to support corrective action design. The GA EPD Watershed Protection Branch approved the UIC request in a letter dated June 26, 2024. The GA EPD Land Protection Branch approved the implementation of the pilot study in a letter dated August 2, 2024. The pilot study activities are detailed in Appendix B – Semiannual Pilot Study Progress Report (Arcadis 2025). Post-injection monitoring is ongoing, and Georgia Power anticipates submitting a comprehensive pilot study technical memorandum as a stand-alone document by August 29, 2025. The memorandum will provide findings and recommendations for the design and implementation of the full-scale remedy. Following submittal of the memorandum, Georgia Power anticipates written approval from GA EPD for public meetings for the selected remedy. Prior to full-scale remedial actions, Georgia Power will revise the *Draft Remedy Selection Report* to incorporate results of the pilot study and public meeting comments.

6.3 ANNUAL POTABLE WELL SURVEY

As requested by EPD, a survey of water wells was conducted within a two-mile radius from the site. The survey incorporated records from federal, state, and county sources cited in the previous well survey; however, no information (e.g., septic tank permit records) was received from the Glynn County Health Department (NewFields, 2020). A current Environmental Data Resources (EDR) GeoCheck® Report is included in Appendix F. No additional parcels were identified as containing wells during the 2024 survey. A figure has been provided in Appendix F. The findings with the available data are consistent with previous well surveys completed in 2021, 2022, and 2023 (Arcadis, 2022 and 2023, Resolute 2023).

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2024 Semiannual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McManus Former Ash Pond 1 (AP-1)* was prepared to fulfill the requirements of USEPA's CCR Rule and GA EPD rule 391-3-4-.10(6)(c). Statistical evaluations of the groundwater monitoring data from the September 2024 event at the former AP-1 identified the continued presence of SSLs for arsenic in detection well MCM-06 and lithium in assessment well DPZ-02. The lithium SSL in DPZ-02 has been addressed by an ASD with final approval from EPD on May 1, 2023. The arsenic SSL in MCM-06 is vertically delineated below the GWPS by DPZ-02. Surface water data along Transect 2 (T2) will continue to be collected and analyzed for arsenic semiannually and reported in semiannual and annual groundwater monitoring reports. Arsenic was not detected above the Georgia instream water quality standard for dissolved arsenic for marine estuary environments in surface water samples collected to date; therefore, no impacts to surface water have been detected and horizontal delineation is complete.

Georgia Power will continue to monitor groundwater in the vicinity of former AP-1 under the current assessment monitoring program and adaptively manage the Site as new data become available. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on February 28, 2023. In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. Georgia Power submitted a Pilot Study Work Plan and Pilot Test Notification Form for EPD review prior to initiating pilot testing. Pilot study injections activities were performed from August 13 to August 20, 2024. Georgia Power anticipates submitting a comprehensive pilot study technical memorandum by August 29, 2025 as a stand-alone document which will provide findings and recommendations for the design and implementation of the full-scale remedy. The next routine semiannual assessment monitoring event for former AP-1 is scheduled for March 2025.

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TABLES

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Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Well ID	Compliance Purpose	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth (feet below ground surface)	Groundwater Zone Screened	Installation Date
MCM-01	Detection	Upgradient	443727.31	852732.08	5.70	8.63	-7.93	-17.93	23.63	SP	07/07/2016
MCM-02	Detection	Upgradient	444496.53	852663.64	8.25	11.25	-5.22	-15.22	23.47	SP	07/06/2016
MCM-04	Detection	Downgradient	444804.73	851695.27	9.50	12.39	-5.18	-15.18	24.68	SP	06/30/2016
MCM-05	Detection	Downgradient	444716.63	851309.91	7.80	10.04	-7.25	-17.25	25.05	SW	07/09/2016
MCM-06	Detection	Downgradient	444407.22	850782.11	7.87	10.15	-6.27	-16.27	24.14	SP	07/08/2016
MCM-07	Detection	Downgradient	444059.38	850195.96	7.52	10.20	-2.76	-12.76	20.28	SP	07/08/2016
MCM-11	Detection	Upgradient	442429.80	851072.91	7.52	10.23	-3.34	-13.34	20.68	SP	07/12/2016
MCM-12	Detection	Downgradient	442821.17	851312.45	8.99	11.87	-6.12	-16.12	25.11	SP	07/12/2016
MCM-14	Detection	Downgradient	443358.82	852317.59	8.66	11.50	-6.23	-16.23	24.89	SP	07/09/2016
MCM-15	Detection	Upgradient	444825.53	851949.02	10.18	12.84	-4.53	-14.53	24.71	SP	06/30/2016
MCM-16	Detection	Upgradient	444551.32	852716.60	13.04	16.02	-1.72	-11.72	24.76	SP	07/06/2019
MCM-17	Detection	Downgradient	443074.41	851899.68	9.09	11.49	-5.62	-15.62	23.90	SC	09/29/2016
MCM-18	Detection	Upgradient	442067.07	851698.41	6.01	9.00	-8.76	-18.76	24.77	SP	10/30/2019
MCM-19	Detection	Upgradient	441157.82	852338.86	5.77	8.71	-9.53	-19.53	25.30	SP	10/30/2019
MCM-20	Detection	Upgradient	440944.40	852185.15	7.07	10.07	-2.98	-12.98	20.05	SP	10/30/2019
DPZ-02	Assessment	Downgradient	444391.02	850757.94	7.34	9.54	-28.84	-33.84	41.18	SP	03/10/2020

Notes:
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Georgia State Plane NAD83 East Zone referenced for horizontal datum.
Ground surface measured at the mag nail in the concrete pad.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Groundwater screened zone uses USCS designations for soil type.

Table 2
Piezometer Network Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Well ID	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth (feet below top of casing)	Groundwater Zone Screened	Installation Date
MW-01R	443612.59	852690.25	9.91	12.40	-0.04	-15.04	27.44	SM	01/20/2009
MW-02	443349.44	852303.86	8.27	10.95	-0.85	-15.85	26.80	SP	09/11/1996
MW-03	443083.39	851911.86	8.81	11.17	-0.83	-15.83	27.00	SP	09/11/1996
MW-04	442850.60	851411.19	6.43	9.17	-3.23	-18.23	27.40	SP	09/11/1996
MW-05	442565.17	850741.75	10.53	13.29	0.69	-14.31	27.60	SP	09/11/1996
MW-06R	442413.05	850563.17	10.36	13.36	3.36	-6.64	20.00	SM	03/06/2018
MW-07	442815.97	850259.66	7.87	9.72	3.22	-11.78	21.50	SC	09/16/1996
MW-09	443747.22	849935.65	6.94	9.81	0.61	-14.39	24.20	SP	09/10/1996
MW-10	444057.81	850184.95	7.60	10.27	-1.83	-16.83	27.10	SC	09/05/1996
MW-11	444358.91	850694.98	7.66	10.27	-6.93	-21.93	32.20	SP	09/10/1996
MW-12	444635.59	851177.23	7.29	9.74	-7.56	-22.56	32.30	SP	09/10/1996
MCM-03	444414.88	851984.67	7.10	9.97	-7.73	-17.73	27.70	SP	07/06/2016
MCM-08	443758.80	849716.96	6.55	9.42	-1.84	-11.84	28.29	SP	07/11/2016
MCM-10	442791.88	850453.05	8.61	11.75	-1.25	-11.25	23.96	SC	07/11/2016
MCM-13	443030.23	851826.19	9.79	12.56	-4.90	-14.90	27.46	SM	07/09/2016
PZ-09	444082.13	849471.64	6.57	9.41	-4.56	-14.56	24.05	SP	10/31/2019
PZ-10	444949.09	851673.98	9.74	12.17	-0.26	-10.26	22.91	SP	11/01/2019
PZ-11	443222.86	849280.51	6.57	9.37	-4.63	-9.63	19.08	SC	11/22/2019
PZ-12	443593.34	849396.87	5.02	7.90	-5.72	-10.72	18.70	SP	11/22/2019
DPZ-01	444695.71	851277.40	7.36	9.71	-25.99	-30.99	40.78	SP	03/10/2020
DPZ-02	444391.02	850757.94	7.34	9.54	-28.84	-33.84	43.46	SP	03/10/2020
DPZ-03	444073.16	850218.83	7.04	9.46	-33.03	-38.03	47.57	SP	03/11/2020
DPZ-04	443062.60	851881.94	8.96	11.45	-34.70	-39.70	51.23	SP	03/12/2020
DPZ-05	443376.32	852342.11	8.60	11.00	-35.12	-40.12	51.20	SP	03/11/2020
DPZ-06	444614.79	851846.27	9.59	12.04	-23.38	-28.38	40.50	SP	03/12/2020
RW-1	444093.78	850251.19	7.64	9.46	-6.96	-16.96	26.42	CL	04/20/2017
RW-2	444161.86	850367.10	7.29	9.76	-7.51	-17.51	27.27	CL	04/20/2017
RW-3	444228.54	850479.64	7.23	9.69	-12.60	-22.60	32.29	SP	04/21/2017
RW-4	444299.42	850599.01	7.40	9.43	-7.45	-17.45	26.88	SP	04/21/2017
RW-5	444369.89	850714.06	7.42	9.98	-7.24	-17.24	37.22	SP	04/22/2017
RW-6	444436.29	850831.76	7.50	10.07	-6.51	-26.51	36.58	SP	04/22/2017
RW-7	444504.22	850949.51	7.27	9.72	-13.45	-28.45	38.17	SP	04/23/2017
RW-8	444572.83	851064.32	7.32	9.95	-6.67	-21.67	31.62	SP	04/23/2017
RW-9	444641.26	851181.25	7.55	10.05	-12.66	-27.66	37.71	SP	04/23/2017
RW-10	444706.81	851295.35	7.64	10.36	-12.44	-27.44	37.80	SP	04/24/2017
DR-01	444407.62	850777.93	7.86	7.58	-8.14	-23.14	30.58	SP	05/26/2022
DR-02	444411.68	850784.46	7.90	7.49	-8.10	-23.10	30.03	SP	05/26/2022
DR-03	444422.02	850792.49	7.65	7.40	-8.25	-23.25	31.96	SP	06/01/2024
INW-01	444418.01	850792.41	7.50	7.18	-8.45	-23.45	30.78	SP	06/01/2024
PT-01	444408.70	850768.53	7.82	7.49	-6.89	-16.89	24.38	SP	05/26/2022
PT-02	444414.19	850777.91	7.91	7.64	-6.74	-16.74	24.38	SP	05/31/2022
PT-03	444418.92	850785.95	7.93	7.45	-7.91	-17.91	25.36	SP	06/01/2022
PT-04D	444400.23	850753.07	7.80	7.51	-23.34	-33.34	40.85	SP	05/25/2022

Notes:
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Georgia State Plane NAD83 East Zone referenced for horizontal datum.
Ground Surface measured at the mag nail in the concrete pad.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Groundwater screened zone uses USCS designations for soil type.
Piezometers INW-01, PT-01 through PT-04, and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)
DPZ-01	9.71	LT	7.31	2.40
		HT	5.74	3.97
DPZ-02	9.54	LT	7.70	1.84
		HT	5.66	3.88
DPZ-03	9.46	LT	7.02	2.44
		HT	5.42	4.04
DPZ-04	11.45	LT	8.78	2.67
		HT	7.64	3.81
DPZ-05	11.00	LT	8.01	2.99
		HT	6.48	4.52
DPZ-06	12.04	LT	7.51	4.53
		HT	7.29	4.75
DR-01	7.58	LT	5.65	1.93
		HT	3.64	3.94
DR-02	7.49	LT	5.50	1.99
		HT	3.54	3.95
DR-03	7.40	LT	5.74	1.66
		HT	3.75	3.65
INW-01	7.18	LT	5.46	1.72
		HT	3.61	3.57
MCM-01	8.63	LT	3.45	5.18
		HT	3.15	5.48
MCM-02	11.25	LT	3.17	8.08
		HT	3.21	8.04
MCM-03	9.97	LT	5.74	4.23
		HT	5.70	4.27

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)
MCM-04	12.39	LT	8.28	4.11
		HT	7.52	4.87
MCM-05	10.04	LT	7.45	2.59
		HT	6.13	3.91
MCM-06	10.15	LT	8.26	1.89
		HT	6.20	3.95
MCM-07	10.20	LT	7.32	2.88
		HT	6.48	3.72
MCM-08	9.42	LT	4.98	4.44
		HT	5.06	4.36
MCM-10	11.75	LT	4.44	7.31
		HT	4.48	7.27
MCM-11	10.23	LT	3.55	6.68
		HT	3.66	6.57
MCM-12	11.87	LT	7.93	3.94
		HT	8.35	3.52
MCM-13	12.56	LT	9.54	3.02
		HT	9.05	3.51
MCM-14	11.50	LT	9.77	1.73
		HT	7.50	4.00
MCM-15	12.84	LT	7.78	5.06
		HT	7.50	5.34
MCM-16	16.02	LT	7.67	8.35
		HT	7.69	8.33
MCM-17	11.49	LT	8.65	2.84
		HT	7.87	3.62

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)
MCM-18	9.00	LT	4.89	4.11
		HT	4.91	4.09
MCM-19	8.71	LT	6.35	2.36
		HT	4.58	4.13
MCM-20	10.07	LT	7.32	2.75
		HT	5.46	4.61
MW-01R	12.40	LT	8.03	4.37
		HT	7.28	5.12
MW-02	10.95	LT	7.23	3.72
		HT	6.99	3.96
MW-03	11.17	LT	7.67	3.50
		HT	7.40	3.77
MW-04	9.17	LT	5.52	3.65
		HT	5.49	3.68
MW-05	13.29	LT	4.44	8.85
		HT	4.49	8.80
MW-06R	13.36	LT	4.42	8.94
		HT	4.47	8.89
MW-07	9.72	LT	2.63	7.09
		HT	2.68	7.04
MW-09	9.81	LT	5.47	4.34
		HT	5.44	4.37
MW-10	10.27	LT	7.38	2.89
		HT	6.50	3.77
MW-11	10.27	LT	9.15	1.12
		HT	6.36	3.91

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)
MW-12	9.74	LT	7.50	2.24
		HT	5.96	3.78
PT-01	7.49	LT	5.70	1.79
		HT	3.52	3.97
PT-02	7.64	LT	5.74	1.90
		HT	3.66	3.98
PT-03	7.45	LT	5.54	1.91
		HT	3.49	3.96
PT-04D	7.51	LT	5.58	1.93
		HT	3.47	4.04
PZ-09	9.41	LT	4.83	4.58
		HT	4.98	4.43
PZ-10	12.17	LT	7.76	4.41
		HT	7.18	4.99
PZ-11	9.37	LT	4.47	4.90
		HT	4.53	4.84
PZ-12	7.90	LT	4.54	3.36
		HT	4.17	3.73
RW-1	9.46	LT	7.02	2.44
		HT	6.62	2.84
RW-10	10.36	LT	8.09	2.27
		HT	6.75	3.61
RW-2	9.76	LT	6.99	2.77
		HT	7.02	2.74
RW-3	9.69	LT	6.86	2.83
		HT	6.11	3.58

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2024	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)
RW-4	9.43	LT	6.49	2.94
		HT	5.86	3.57
RW-5	9.98	LT	8.23	1.75
		HT	6.14	3.84
RW-6	10.07	LT	7.40	2.67
		HT	6.62	3.45
RW-7	9.72	LT	7.91	1.81
		HT	6.19	3.53
RW-8	9.95	LT	7.35	2.60
		HT	6.62	3.33
RW-9	10.05	LT	7.82	2.23
		HT	6.29	3.76
Oil Dock SW Monitor (Burnett Creek)	NA	LT	NA	-1.23
		HT	NA	4.14
Ash Pond Monitor	NA	LT	NA	3.83
		HT	NA	3.81

NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
LT - Low Tide Measurement
HT - High Tide Measurement
Surface water transducer monitors used for surface water elevations
NA - indicates not applicable
Piezometers INW-01, PT-01 through PT-04, and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

Table 4
Groundwater Event Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 10 2024 - September 12 2024
			Assessment
Well ID	Hydraulic Location	Compliance Purpose	
DPZ-02	Downgradient	Assessment	X
MCM-01	Upgradient	Detection	X
MCM-02	Upgradient	Detection	X
MCM-04	Downgradient	Detection	X
MCM-05	Downgradient	Detection	X
MCM-06	Downgradient	Detection	X
MCM-07	Downgradient	Detection	X
MCM-11	Upgradient	Detection	X
MCM-12	Downgradient	Detection	X
MCM-14	Downgradient	Detection	X
MCM-15	Upgradient	Detection	X
MCM-16	Upgradient	Detection	X
MCM-17	Downgradient	Detection	X
MCM-18	Upgradient	Detection	X
MCM-19	Upgradient	Detection	X
MCM-20	Upgradient	Detection	X

Notes:
X - Indicates well sampled during event
Assessment Event includes Appendix III and Appendix IV analytes.

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-01	MCM-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11	MCM-12
	Sample Date	09/11/2024	09/11/2024	09/10/2024	09/11/2024	09/12/2024	09/11/2024	09/10/2024	09/10/2024
ANALYTE	UNITS								
Appendix III									
Boron	mg/L	0.0753	0.0875	0.131	0.463	0.745	0.888	0.0483	1.31
Calcium	mg/L	9.60	5.36	9.06	78.50	134	72.50	6.36	4.67
Chloride	mg/L	9.34	16.40	100	1800	3240	2440	11.20	297
Fluoride	mg/L	0.0669 J	< 0.0330	0.0749 J	0.654	0.392 J	0.692	0.202	1.67
pH, Field	SU	5.01	5.43	5.10	6.94	7.20	6.53	5.19	6.44
Sulfate	mg/L	42.10	26.20	103	148	271	296	24.30	0.462
TDS	mg/L	70.00	64.00	316	3020	5340	4640	79.00	1230
Appendix IV									
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.00586	< 0.00200	< 0.00200	0.0249	0.107	0.00833	0.0163	< 0.00200
Barium	mg/L	0.0868	0.0585	0.0630	0.0230	0.0727	0.0454	0.0301	0.0633
Beryllium	mg/L	0.000200 J	< 0.000200	0.000321 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00137
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00672 J
Cobalt	mg/L	< 0.000300	< 0.000300	0.00238	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000453 J
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	0.0290	0.0550	0.0147	< 0.00300	0.00967 J
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	0.00113	0.000895 J	0.000949 J	< 0.000200	0.000276 J
Combined Radium 226 + 228	pCi/L	2.61	6.28	4.33	2.55	5.25	5.35	2.49	4.80
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.0669 J	< 0.0330	0.0749 J	0.654	0.392 J	0.692	0.202	1.67

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-14	MCM-15	MCM-16	MCM-17	MCM-18	MCM-19	MCM-20	DPZ-02
	Sample Date	09/11/2024	09/11/2024	09/11/2024	09/10/2024	09/11/2024	09/11/2024	09/11/2024	09/11/2024
ANALYTE	UNITS								
Appendix III									
Boron	mg/L	0.415	0.0350	0.0517	1.65	0.172	0.610	0.841	1.52
Calcium	mg/L	41.30	0.928	5.49	57.20	15.30	127	87.80	162
Chloride	mg/L	1320	3.34	9.65	3080	856	4880	4420	4570
Fluoride	mg/L	0.164 J	< 0.0330	< 0.0330	0.986 J	0.267	0.743 J	2.83	< 0.330
pH, Field	SU	6.66	4.99	5.41	6.11	4.04	4.61	3.58	7.18
Sulfate	mg/L	180	5.75	23.20	323	149	781	852	752
TDS	mg/L	2480	28.00	54.00	5490	1530	9180	8630	8970
Appendix IV									
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.00215 J	0.00538	< 0.00200	< 0.00200	0.00210 J	0.0134	0.0197	0.0121
Barium	mg/L	0.0279	0.0243	0.0651	0.0724	0.123	0.0837	0.0823	0.0398
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00225	0.0157	0.0127	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	0.00441 J	< 0.00300	0.00601 J	0.00551 J	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.0181	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0204	< 0.00300	< 0.00300	0.0211	< 0.00300	0.0200	0.0201	0.0667
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	0.00123	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000217 J
Combined Radium 226 + 228	pCi/L	3.40	4.32	1.89	4.29	9.30	15.50	29.40	7.95
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	0.00440 J	0.0469	0.0212	0.00176 J
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.164 J	< 0.0330	< 0.0330	0.986 J	0.267	0.743 J	2.83	< 0.330

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Notes:
TDS - Total Dissolved Solids
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Sample Location		BG-1LT	BG-2HT	T2-1HT	T2-2HT	T2-2HTS
Sample Date		09/18/2024	09/18/2024	09/18/2024	09/18/2024	09/18/2024
ANALYTE	UNITS					
APPENDIX III						
Boron	mg/L	2.19	2.56	2.14	2.20	2.21
Calcium	mg/L	211	248	216	218	222
Chloride	mg/L	8710	10800	9010	8990	8930
Fluoride	mg/L	< 0.825	0.948 J	< 0.825	< 0.825	< 0.825
pH, Field	SU	7.30	7.22	7.31	7.26	7.26
Sulfate	mg/L	1430	1670	1400	1430	1390
TDS	mg/L	17500	20400	17100	17900	17100
APPENDIX IV						
Arsenic	mg/L	0.00461 J	0.00501 J	0.00421 J	0.00432 J	0.00416 J
Fluoride	mg/L	< 0.825	0.948 J	< 0.825	< 0.825	< 0.825
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	93.50	99.40	94.40	96.60	95.00
Bicarbonate Alkalinity as CaCO3	mg/L	93.50	99.40	94.40	96.60	95.00
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Magnesium	mg/L	619	735	623	635	642
Potassium	mg/L	195	232	198	199	203
Sodium	mg/L	5200	6480	5350	5410	5450

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Sample Location		T2-3HT	T2-3HTS	T2-4HT	T2-4HTS	T2-4LT
Sample Date		09/18/2024	09/18/2024	09/18/2024	09/18/2024	09/18/2024
ANALYTE	UNITS					
APPENDIX III						
Boron	mg/L	2.37	2.18	2.29	2.22	1.88
Calcium	mg/L	228	215	222	212	185
Chloride	mg/L	9320	8760	9310	9010	7130
Fluoride	mg/L	1.03 J	< 0.825	< 0.825	< 0.825	< 0.825
pH, Field	SU	7.28	7.31	7.29	7.30	7.23
Sulfate	mg/L	1450	1410	1520	1460	1220
TDS	mg/L	18800	16900	19100	17900	14000
APPENDIX IV						
Arsenic	mg/L	0.00442 J	0.00432 J	0.00429 J	0.00434 J	0.00438 J
Fluoride	mg/L	1.03 J	< 0.825	< 0.825	< 0.825	< 0.825
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	97.30	94.30	95.40	93.90	88.70
Bicarbonate Alkalinity as CaCO3	mg/L	97.30	94.30	95.40	93.90	88.70
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Magnesium	mg/L	668	626	647	627	525
Potassium	mg/L	211	198	206	196	165
Sodium	mg/L	5700	5380	5510	5340	4450

Notes:
TDS - Total Dissolved Solids
mg/L - milligrams per liter
SU - Standard Units
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.
J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.

Table 7
Groundwater Flow Velocity Calculations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Gauging Event	Well Pair	Tidal Stage	Groundwater Elevation in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)	Average Hydraulic Conductivity (K) (ft/day)	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
September 2024	MCM-11 to MCM-12	LT	6.68	3.94	2.74	458.76	0.0060	3.40	0.35	0.058	21.18
September 2024	MCM-11 to MCM-12	HT	6.57	3.52	3.05	458.76	0.0066	3.40	0.35	0.065	23.57
September 2024	MCM-16 to MCM-02	LT	8.35	8.08	0.27	76.17	0.0035	3.40	0.35	0.034	12.57
September 2024	MCM-16 to MCM-02	HT	8.33	8.04	0.29	76.17	0.0038	3.40	0.35	0.037	13.50

Notes:
ft – feet
HT - High Tide Measurement
LT- Low Tide Measurement
In-situ hydraulic conductivity (slug) tests in the overburden at the Site ranged from 0.27 to 52.72 feet/day with an average of 3.40 feet/day
Effective porosity of 35% was selected for the alluvial coastal deposits of very fine to fine sands ranging from the surface to 33-43ft below ground surface identified during subsurface investigations at the site. (Resolute, 2021b)
See figures for illustrated flow path
Groundwater flow velocity equation: V= (K* i)/ne

Table 8
Summary of Background Levels and GWPS - September 2024
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Analyte	Units	EPA MCL	Federal CCR Rules Specified Limit	Background Limit	GWPS
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.032	0.032
Barium	mg/L	2		0.22	2
Beryllium	mg/L	0.004		0.021	0.021
Cadmium	mg/L	0.005		0.0043	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt	mg/L		0.006	0.036	0.036
Combined Radium 226 + 228	pCi/L	5		34.9	34.9
Fluoride	mg/L	4		3.98	4
Lead	mg/L		0.015	0.005	0.015
Lithium	mg/L		0.04	0.049	0.049
Mercury	mg/L	0.002		0.0007	0.002
Molybdenum	mg/L		0.1	0.01	0.1
Selenium	mg/L	0.05		0.049	0.05
Thallium	mg/L	0.002		0.002	0.002

Notes:

GWPS- Groundwater Protection Standard

MCL - Maximum Contaminant Level

pCi/L - picocuries per liter

mg/L - milligrams per liter

The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a). Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL or RSL

FIGURES

2024 Semiannual Groundwater Monitoring and Corrective Action Report

ENSAFE

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188

Plant McManus Former AP-1
Site Location Map

Brunswick, GA

Legend

CCR Permitted Boundary

0 500 1,000 2,000 Feet

N

Figure 1

February 2025

N

0 195 390 780 1,170 1,560

Feet

Cowpen

Burnett Creek

Turtle River

Island

Mainland

Former AP-1

MCM-04
MCM-15
MCM-05
MCM-16
MCM-02
DPZ-02
MCM-06
MCM-07
MCM-01
MCM-14
MCM-17
MCM-12
MCM-11
MCM-18
MCM-19
MCM-20

Johnson Creek

Legend

- Detection Well
- Assessment Well
- CCR Permitted Boundary

2024 Semiannual Groundwater Monitoring and Corrective Action Report

ENSAFE

Woodstock, GA | February 2025

Plant McManus
Former AP-1
Monitoring Well Location Map

Brunswick, GA

Figure

2

N

0 185 370 740 1,110

Feet

PZ-10
DPZ-01
RW-10
RW-9
MW-12
DPZ-06
RW-8
PT-03
PT-02
INW-01
PT-01
RW-6
RW-7
MCM-03
PT-04D
DR-03
DR-02
RW-4
RW-5
DR-01
RW-3
MW-11
RW-2
RW-1
PZ-09
DPZ-03
MW-10
MCM-08
MW-09
PZ-12
MW-01R
DPZ-05
MW-02
PZ-11
DPZ-04
MW-03
MCM-13
MW-04
MW-07
MCM-10
MW-05
MW-06R

Legend

- Groundwater Piezometer
- Deep Piezometer
- CCR Permitted Boundary

Note:
Piezometers INW-01, PT-01 through PT-04D and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

2024 Semiannual Groundwater Monitoring and Corrective Action Report

ENSAFE

Woodstock, GA | February 2025

Plant McManus
Former AP-1
Piezometer Location Map
Brunswick, GA

Figure

3

N

0 250 500 1,000 1,500
Feet

Burnett Creek
-1.23

Turtle River
-1.23

Former
AP-1
3.83

Gibson Creek
-1.23

PZ-10 4.41
MCM-04 4.11
MCM-15 5.06
MCM-16 8.35
MCM-02 8.08
MCM-03 4.23
DPZ-06 4.53*
MCM-01 5.18
MW-01R 4.37
MCM-14 1.73
DPZ-05 2.99*
MW-02 3.72
MW-03 3.50
MCM-13 3.02
MCM-17 2.84
DPZ-04 2.67*
MCM-12 3.94
MW-04 3.65
MCM-11 6.68
MCM-18 4.11
MCM-19 2.36
MCM-20 2.75
MW-07 7.09
MCM-10 7.31
MW-05 8.85
MW-06R 8.94
PZ-09 4.58
PZ-12 3.36
PZ-11 4.90
MCM-08 4.44
MW-09 4.34
MW-10 2.89
MCM-07 2.88
DPZ-03 2.44*
RW-1 2.44*
RW-2 2.77*
RW-3 2.83*
RW-4 2.94*
RW-5 1.75*
RW-6 2.67*
RW-7 1.81*
RW-8 2.60*
RW-9 2.23*
RW-10 2.27*
MW-12 2.24
DPZ-01 2.40*
INW-01 1.72*
DR-03 1.66
PT-02 1.90
PT-03 1.91
PT-04D 1.93*
MCM-06 1.89
PT-01 1.79
DPZ-02 1.84*
MW-11 1.12
DR-01 1.93
DR-02 1.99

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 3.94 — Groundwater Elevation (Detection Well)

DPZ-02 1.84* — Groundwater Elevation (Assessment Well)

MCM-08 4.44 — Groundwater Elevation (Piezometer)

DPZ-04 2.67* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

TRENTON M. GODWIN
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2086

2024 Semiannual Groundwater Monitoring and Corrective Action Plan

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Woodstock, GA | February 2025

Plant McManus
Former AP-1
Potentiometric Surface Map
Low Tide September 10, 2024
Brunswick, GA

Figure
4

N

0 250 500 1,000 1,500

Feet

Burnett Creek 4.14

Turtle River 4.14

Gibson Creek 4.14

Former AP-1 3.81

PZ-10 4.99
MCM-04 4.87
MCM-15 5.34
RW-9 3.76*
DPZ-01 3.97*
MCM-05 3.91
DPZ-06 4.75*
MCM-16 8.33
INW-01 3.57*
DR-03 3.65
PT-02 3.98
RW-7 3.53*
RW-10 3.61*
MW-12 3.78
PT-03 3.96
RW-8 3.33*
MCM-03 4.27
PT-04D 4.04*
MCM-06 3.95
PT-01 3.97
RW-6 3.45*
MCM-02 8.04
RW-5 3.84*
DPZ-02 3.88*
RW-3 3.58*
MW-11 3.91
DR-02 3.95
DR-01 3.94
RW-1 2.84*
RW-4 3.57*
PZ-09 4.43
DPZ-03 4.04*
RW-2 2.74*
MW-10 3.77
MCM-07 3.72
MCM-01 5.48
MCM-08 4.36
MW-09 4.37
MW-01R 5.12
PZ-12 3.73
MCM-14 4.00
DPZ-05 4.52*
MW-02 3.96
PZ-11 4.84
MCM-17 3.62
MCM-13 3.51
MW-03 3.77
DPZ-04 3.81*
MCM-12 3.52
MW-07 7.04
MCM-10 7.27
MW-04 3.68
MW-05 8.80
MCM-11 6.57
MW-06R 8.89
MCM-18 4.09
MCM-19 4.13
MCM-20 4.61

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 3.52 — Groundwater Elevation (Detection Well)

DPZ-02 3.88* — Groundwater Elevation (Assessment Well)

MCM-08 4.36 — Groundwater Elevation (Piezometer)

DPZ-04 3.81* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

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Plant McManus
Former AP-1
Potentiometric Surface Map
High Tide September 10, 2024
Brunswick, GA

Figure
5

2024 Semiannual Groundwater Monitoring and Corrective Action Report

N

0 3 6 12 18 Feet

Burnett Creek
-1.23

DR-03
1.66

PT-03
1.91

INW-01
1.72*

PT-02
1.90

DR-02
1.99

PT-01
1.79

DR-01
1.93

MCM-06
1.89

PT-04D
1.93*

DPZ-02
1.84*

Former
AP-1
3.83

0

1

2

3

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GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2086

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-06 1.89 — Groundwater Elevation (Detection Well)
- DPZ-02 1.84* — Groundwater Elevation (Assessment Well)
- DR-01 1.93 — Groundwater Elevation (Piezometer)
- PT-04D 1.93 — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

2024 Semiannual Groundwater Monitoring and Corrective Action Report

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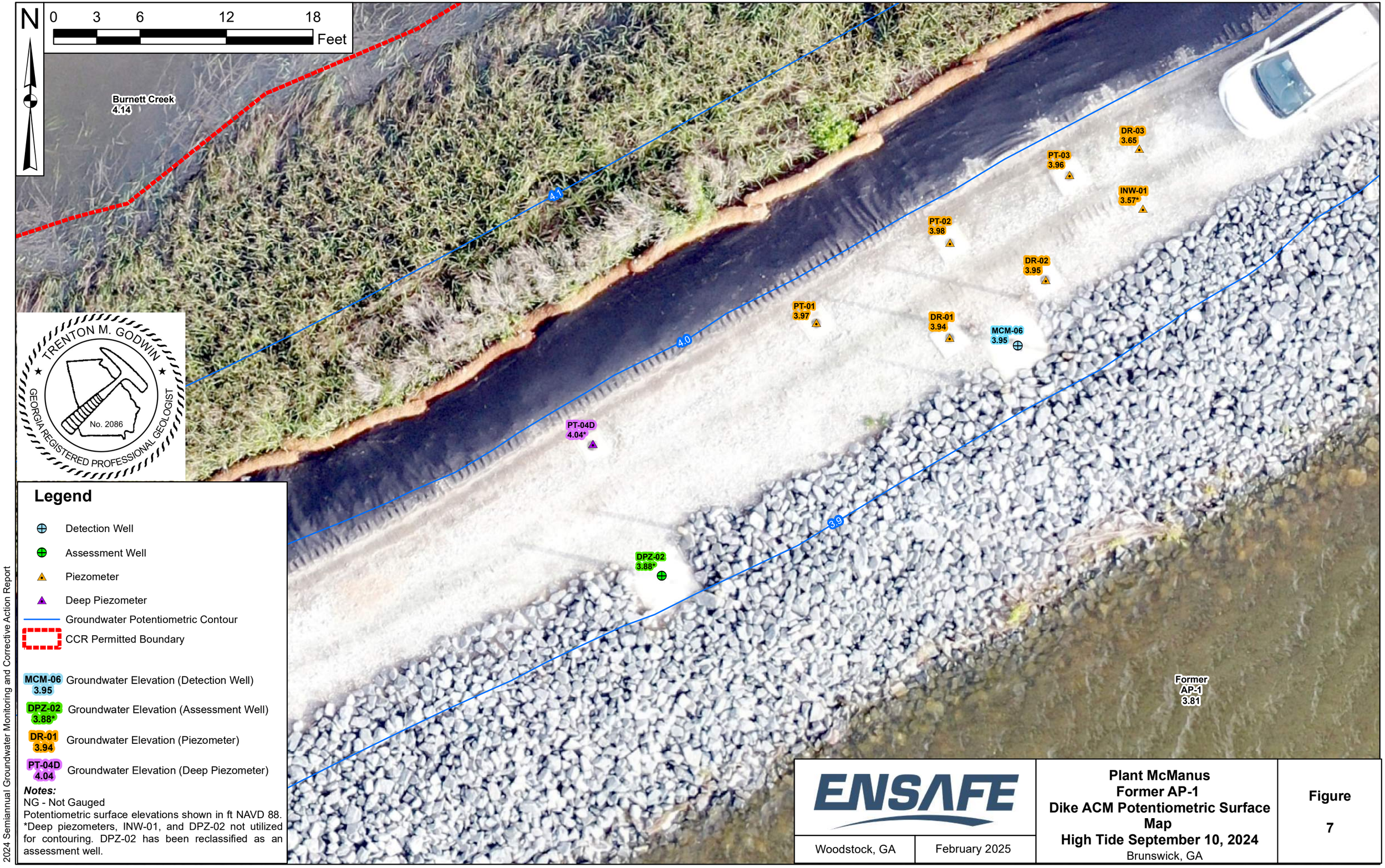
Woodstock, GA | February 2025

Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
Low Tide September 10, 2024
Brunswick, GA

Figure

6



TRENTON M. GODWIN
No. 2086
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary

- MCM-06 3.95 — Groundwater Elevation (Detection Well)
- DPZ-02 3.88* — Groundwater Elevation (Assessment Well)
- DR-01 3.94 — Groundwater Elevation (Piezometer)
- PT-04D 4.04 — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring. DPZ-02 has been reclassified as an assessment well.

2024 Semiannual Groundwater Monitoring and Corrective Action Report

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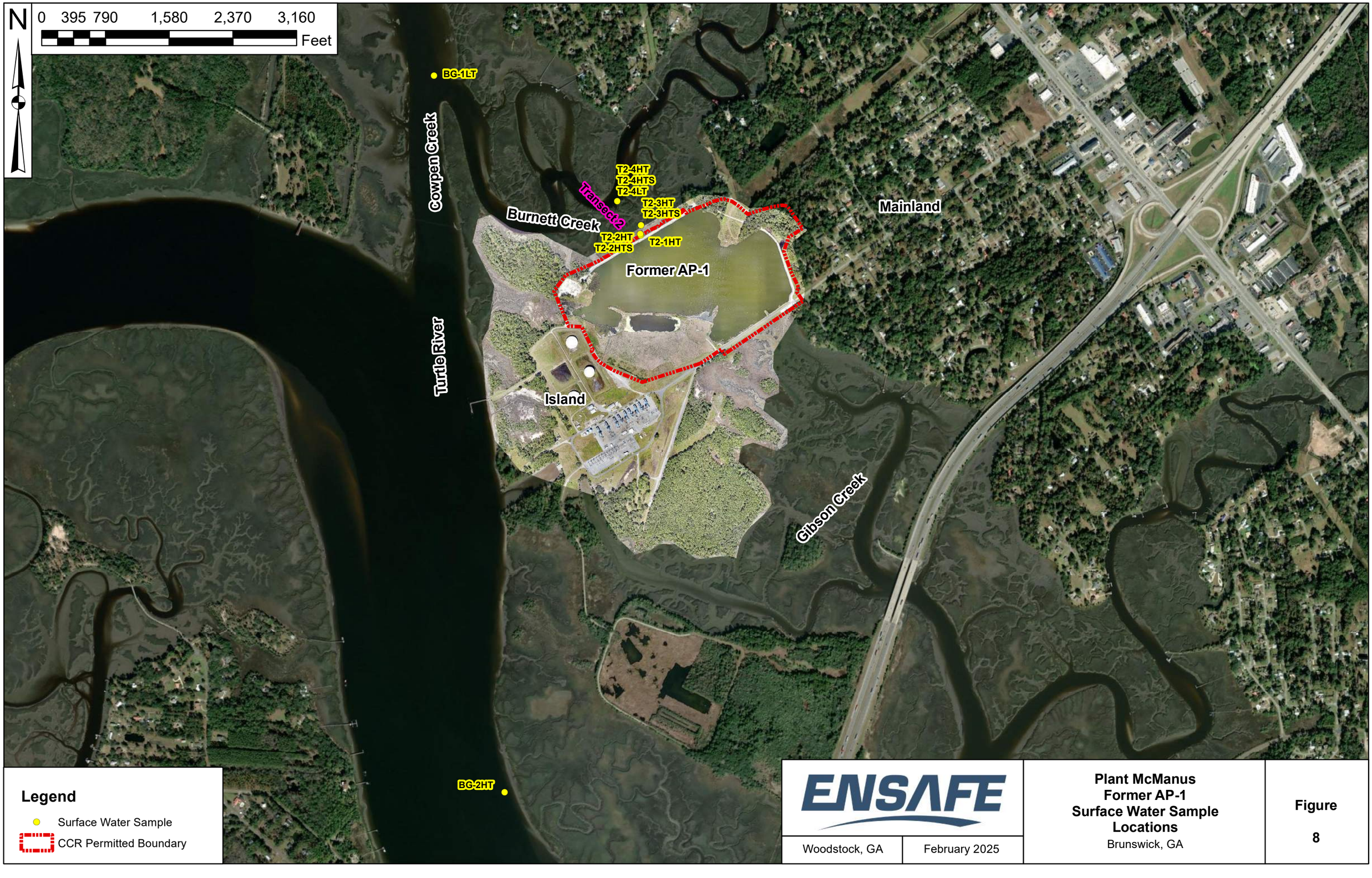
Woodstock, GA | February 2025

Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
High Tide September 10, 2024
Brunswick, GA

Figure
7



Legend

- Surface Water Sample
- CCR Permitted Boundary

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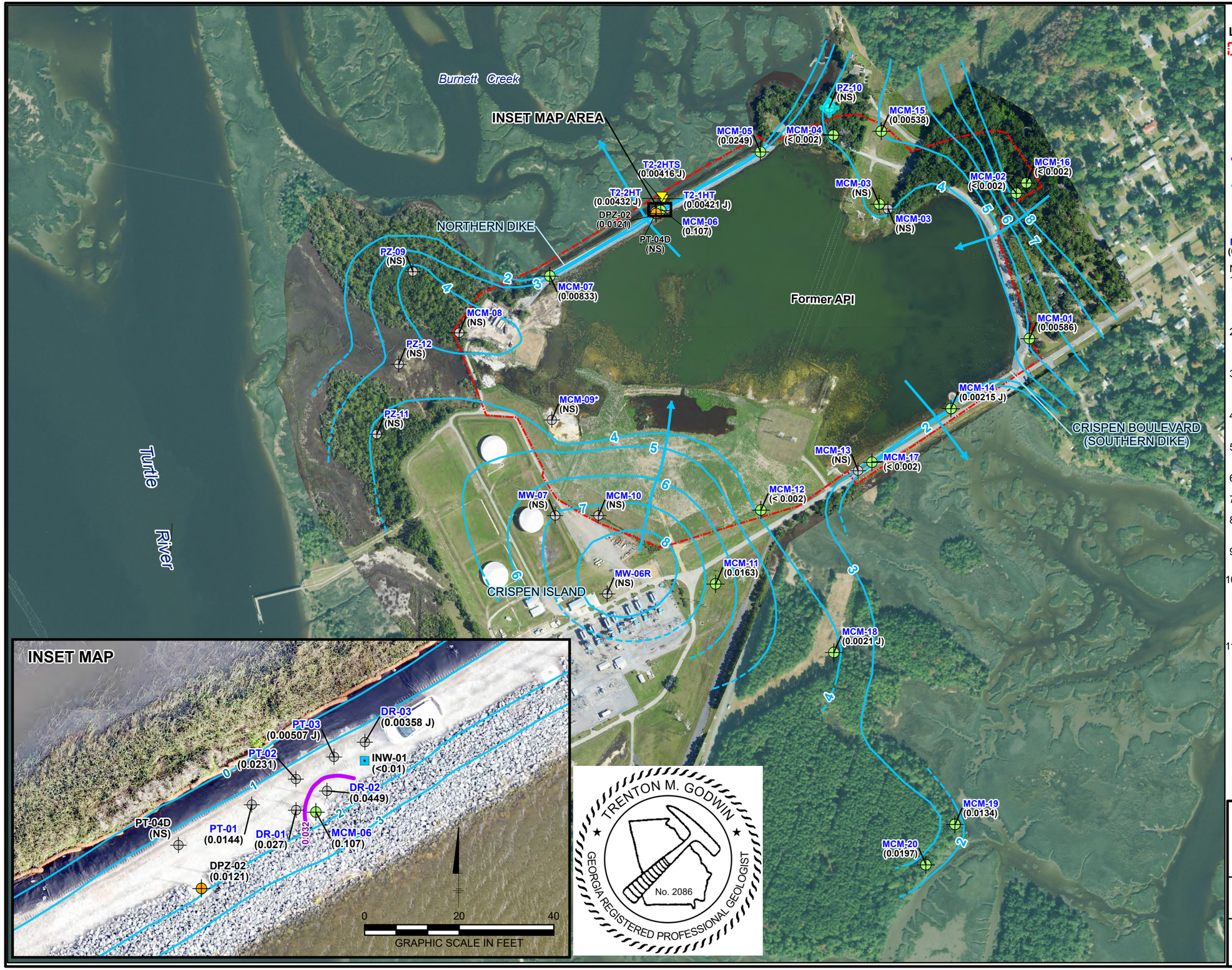
Woodstock, GA | February 2025

Plant McManus
Former AP-1
Surface Water Sample Locations
Brunswick, GA

Figure
8

2024 Semiannual Groundwater Monitoring and Corrective Action Report



LEGEND

- PERMITTED CCR BOUNDARY
- DETECTION WELL
- PIEZOMETER
- ASSESSMENT WELL
- INJECTION WELL
- SURFACE WATER SAMPLE
- ARSENIC ISCONCENTRATION LINE DASHED WHERE INFERRED
- GROUNDWATER ELEVATION CONTOUR (FT NAVD 88) DASHED WHERE INFERRED
- NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988
- MCM-01 (0.00586) WELL ID WITH ARSENIC CONCENTRATION

NOTES:

1. BLUE LABELS INDICATE WELL WAS USED FOR GROUNDWATER ELEVATION CONTOURING. BLACK LABELS ARE ARSENIC CONCENTRATIONS.
2. DATA SHOWN FROM GROUNDWATER SAMPLING EVENT CONDUCTED SEPTEMBER 2024.
3. ISOCONCENTRATION LINE DEVELOPED FROM GROUNDWATER COLLECTED DURING SEPTEMBER 2024 SAMPLING EVENT.
4. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L).
5. ASSESSMENT WELL DPZ-02 DATA ARE NOT USED IN ISOCONTOUR DEVELOPMENT.
6. NS = NOT SAMPLED.
7. CCR = COAL COMBUSTION RESIDUALS
8. < = NOT DETECTED AT OR ABOVE ADJUSTED METHOD DETECTION LIMIT.
9. ARSENIC GROUNDWATER PROTECTION STANDARD = 0.032 MILLIGRAMS PER LITER.
10. LOW TIDE GROUNDWATER CONTOURS BASED ON INTERPRETATION PRESENTED IN *SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT (RESOLUTE 2025)*.
11. A GA EPD-APPROVED PILOT INJECTION STUDY WAS COMPLETED IN AUGUST 2024 AT INJECTION WELL INW-01.

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
IMAGERY SOURCES:
USA NAIP NATURAL COLOR
MAP PLAN ORTHOMOSAIC DRONE FLIGHTS

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ARSENIC ISOCONCENTRATION MAP SEPTEMBER 2024

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FIGURE 9

APPENDIX A

WELL INSTALLATION, MAINTENANCE AND REPAIR DOCUMENTATION

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Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Prepared By:
Arcadis U.S., Inc.
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Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company
Brunswick, Georgia

Our Ref:
30180421.00009

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

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1 Introduction 1
2 Drilling and Well Installation 1
2.1 Drilling Method 1
2.2 Screened Interval 1
2.3 Well Construction Materials 1
2.3.1 Filter Pack 2
2.3.2 Annular Seal 2
3 Well Development 2
4 Survey 3
5 References 3

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Table 1. Well Completion Details

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Figure 1. Site Map and Compliance Monitoring Well Network
Figure 2. Well Location Map – Pilot Study Area

Appendices

A Boring Logs and Well Construction Details
B Well Driller Performance Bond
C Well Development Logs
D Survey Report

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

09-27-2024

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng), Vice President

Date

1 Introduction

This report documents the installation of two piezometers at Georgia Power Company (Georgia Power) Plant McManus Former Ash Pond 1 (AP-1). One injection well (INW-01) and one dose response well (DR-03), screened at similar depth and lithology to detection well MCM-06 and in general accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan [GWMP] (Resolute 2021) were installed. Exceptions to the design presented in the GWMP are associated with the purpose of the wells (injection and dose response monitoring) in support of an approved Injection Pilot Study Workplan (Arcadis 2024, GEOS ID 836675).

2 Drilling and Well Installation

The piezometer locations are shown in **Figure 1**. The installation date, location, elevation, screen interval, and designations for the installed wells are provided in the following sections. Boring logs with well construction details are provided in **Appendix A**. A summary of well construction details is provided in **Table 1**.

2.1 Drilling Method

The wells were installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation, provided in **Appendix B**. The well installations were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. A Terra Sonic 150CC Compact Crawler sonic rig was used to drill the boreholes where the wells were installed. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Interval

Injection well INW-01 is constructed with 15 feet of 4-inch diameter well screen placed at an interval of 15.95 feet to 30.95 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap placed on the bottom 0.1-foot sump/sediment trap.

Dose response well DR-03 is constructed with 15 feet of 2-inch diameter well screen placed at an interval of 15.90 feet to 30.90 feet bgs with a flush-threaded PVC end cap placed on the bottom 0.6-foot sump/sediment trap.

The screen intervals are provided along with the construction details in **Table 1**.

2.3 Well Construction Materials

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling and injection in the case of INW-01; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The dose response well was constructed of 2-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. The injection well was constructed of 4-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. Factory machine slotted 0.010-inch

screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. The casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing at INW-01, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to a minimum of 2 feet above the top of the screen. Approximately 4.5 cubic feet of filter sand were used for INW-01.

Following placement of the well screen and casing at DR-03, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to approximately 3 feet above the top of the screen. Approximately 2.5 cubic feet of bags of filter sand were used for DR-03.

After placing the filter pack and prior to installing the annular seal, each well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen. Well construction and boring logs are provided in **Appendix A**.

2.3.2 Annular Seal and Well Completion

For INW-01, an annular seal composed of approximately 12 feet of neat cement grout (approximately 9 cubic feet) was placed on top of 2 feet of Standard Sand & Silica Co. fine sand (30/65 filter sand) and tremie-grouted to surface. Approximately 0.5 cubic feet of 30/65 filter sand was used as an annular seal for INW-01. The monitoring well surface completion consists of a 12-inch bolt down manhole and a four-foot by four-foot by six-inch concrete pad.

For DR-03, an annular seal composed of 3/8-inch Baroid Holeplug® non-coated, bentonite chips was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Bentonite chips were placed from the top of the 20/30 sand to a thickness of approximately 2 feet in order to prevent grout contamination into the water-bearing zone. Approximately 0.5 cubic feet of bentonite chips were used. Following hydration of the bentonite, the remaining annular space was filled to approximately 4.9 feet bgs with Sand & Silica Co. fine sand (30/65 filter sand) to top of the water table (approximately 1 cubic foot) and tremie-grouted to surface with approximately 0.5 cubic feet of cement bentonite grout. The monitoring well surface completion consists of a 6-inch diameter bolt down manhole and a two-foot by two-foot by six-inch concrete pad.

3 Well Development

Injection well INW-01 was developed on June 4, 2024, using a 12-volt Proactive submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the Proactive submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 1.43 nephelometric turbidity units (NTU).

Dose response well DR-03 was developed on June 3, 2024, using a Geotech Reclaimer submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH,

temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 9.19 nephelometric turbidity units (NTU).

The well development forms are included in **Appendix C**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Shupe Surveying Company, P.C. on June 27, 2024 using a Carlson BRX-7 Global Positioning System (GPS) and Geomax Model Zone 20-HV Laser Level. A re-survey was performed on August 28, 2024 to achieve the requisite vertical accuracy. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83), US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.5-foot. Vertical elevations are referenced to North American Vertical Datum of 1988 (NAVD1988), US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix D**.

5 References

Arcadis. 2024. MCM-06 Pilot Study Work Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

Resolute. 2021. Groundwater Monitoring Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

Tables

Table 1 - Well Completion Details
Georgia Power Company
Plant McManus
Brunswick, Georgia

Well ID	Installation Date	Northing [1] (feet)	Easting [1] (feet)	Ground Surface Elevation [2]	Top of Casing Elevation [2]	Total Depth (feet bgs)	Depth of Well (feet bTOC)	Screened Interval (feet bgs)	
								Top	Bottom
INW-01	6/1/2024	444,418.01	850,792.41	7.50	7.18	31.05	30.73	15.95	30.95
DR-03	6/1/2024	444,422.02	850,792.49	7.65	7.40	31.50	31.25	15.90	30.90

Notes:
1 - All horizontal locations surveyed to the Georgia State Plane Coordinate System, East Zone, NAD83
2 - Vertical elevations surveyed relative to NAVD88 (U.S. Survey Feet)
3 - Total Depth includes well sump (0.1 ft for INW-01 and 0.6 ft for DR-03)

Acronyms & Abbreviations:
bgs - below ground surface
bTOC - below top of casing
NAD83 - North American Datum of 1983
NAVD88 - North American Vertical Datum of 1988

Figures

Burnett Creek

Turtle River

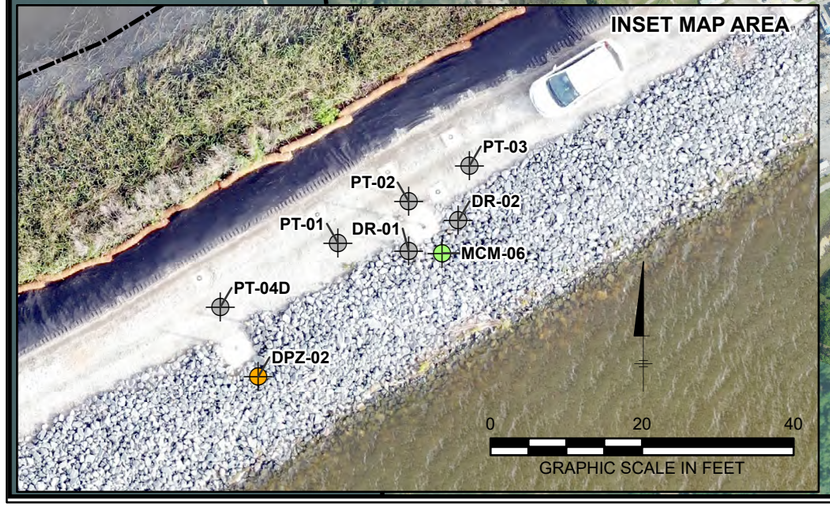
NORTHERN DIKE

CRISPEN BOULEVARD
(SOUTHERN DIKE)

FORMER AP-1

INSET MAP AREA

MCM-01
MCM-02
MCM-04
MCM-05
MCM-06
MCM-07
MCM-11
MCM-12
MCM-14
MCM-15
MCM-16
MCM-17
MCM-18
MCM-19
MCM-20
PT-01
PT-02
PT-03
DR-01
DR-02
DPZ-02



LEGEND

- PROPERTY BOUNDARY
- PERMITTED CCR BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

SITE MAP AND MONITORING WELL NETWORK

ARCADIS

FIGURE
1

LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

**WELL LOCATION MAP -
PILOT STUDY AREA**

ARCADIS

FIGURE
2

Appendix A

Boring Logs and Well Construction Details

RECORD OF BOREHOLE INW-01

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/30/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444418.01
EASTING: 850792.41
GS ELEVATION: 7.50
TOC ELEVATION: 7.18

DEPTH W.L.: 5.94
ELEVATION W.L.: 1.24
DATE W.L.:
TIME W.L.:

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC
	0.0 - 1.0 Gravel	FILL		0.0			
	1.0 - 10.8 (SP) SAND; 7.5YR 7/6; loose; fine grained; well sorted; subangular; moist; FILL.	SP		1.0	1		7.5 10.0
5	Grading to 10YR 8/4.						
10	10.8 - 14.6 (CLS) Sandy CLAY; 7.5 YR 4/1; soft; medium to high plasticity; wet.	CLS		10.8	2		9.0 10.0
15	14.6 - 16.8 (SP) SAND; 7.5YR 5/1; loose; fine grained; poorly sorted; subangular; wet; odor.	SP		14.6			
20	Grading to 7.5YR 5/2.				3		8.5 10.0
25							
30	grading some shell fragments; GLEY1 5/N				4		3.0 3.0
	Boring terminated at 33 feet bgs.						

INW-01 MONITORING WELL DIAGRAM and NOTES

ANNULUS SEAL
Interval: 0.5'-12'
Type: Quickrete Portland Type I/II Neat Cement Grout
Quantity: 9.0 cf

FILTER PACK SEAL
Interval: 12'-14'
Type: 30/65 Standard Sand and Silica
Quantity: 0.5 cf

FILTER PACK
Interval: 14'-33'
Type: 20/30 Standard Sand and Silica
Quantity: 4.5 cf

WELL CONSTRUCTION DETAILS

SURFACE COMPLETION
Protection: 12" Cast Iron
Pad: 4'x4' Concrete
Lock: Yes

WELL CASING
Interval: 0'-15.95'
Material: Schedule 40 PVC
Diameter: 4"
Joint Type: Threaded

WELL SCREEN
Interval: 15.95'-30.95'
Material: Schedule 40 PVC
Diameter: 4"
Slot Size: 0.010"

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

RECORD OF BOREHOLE DR-03

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/31/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444422.02
EASTING: 850792.49
GS ELEVATION: 7.65
TOC ELEVATION: 7.40

DEPTH W.L.: 6.67
ELEVATION W.L.: 0.75
DATE W.L.: 6/3/2024
TIME W.L.: 12:45:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	DR-03 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 0.8 Gravel	FILL		0.0				ANNULUS SEAL Interval: 0.5'-4.9' Type: Quickrete Portland Type I/II Cement Bentonite Grout Quantity: 0.5 cf	SURFACE COMPLETION Protection: 6" Cast Iron Pad: 2'x2' Concrete Lock: Yes
	0.8 - 11.5 (SP) SAND; 7.5YR 7/4; loose; well sorted; fine grained; subangular; moist; FILL.			0.8					WELL CASING Interval: 0'-15.90' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	Grading to 7.5YR 7/2.				1		8.5 10.0		
	Grading to 7.5YR 7/3.	SP						FILTER PACK SEAL Interval: 4.9'-11.1' Type: 30/65 Standard Sand and Silica Quantity: 1.0 cf	
	Grading to 10YR 6/1.								
10									
	11.5 - 13.0 (CL) CLAY; GLEY1 5/N; soft; high plasticity; moist.	CL		11.5				FILTER PACK SEAL Interval: 11.1'-13.1' Type: 3/8" Hole Plug Bentonite Chips Quantity: 0.5 cf	
	13.0 - 13.5 (CLS) Sandy CLAY; GLEY1 5/N; soft; high plasticity; moist.	CLS		13.0					
	13.5 - 33.0 (SP) SAND; GLEY1 5/10Y; well sorted; fine grained; subangular to subrounded; wey.			13.5					
15					2		10.0 10.0		WELL SCREEN Interval: 15.90'-30.90' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010"
20	Grading to very fine grained; very wet; GLEY2 5/10BG.								
		SP						FILTER PACK Interval: 13.1'-32' Type: 20/30 Standard Sand and Silica Quantity: 2.5 cf	
25	Grading fine grained; subrounded; less wet.				3		9.0 10.0		
30	grading some shell fragments GLEY1 5/N.				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

Appendix B

Well Driller Performance Bond

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

Appendix C

Well Development Logs

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/3/24

Calibrated By: Jay Siewert

Field Conditions: 86°/68°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	1502	**Time Finish**	1523		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.72	36.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4313.1	34.29	± 10% of standard	EPA 2023
pH (SU)	4.00	3.81	34.58	± 0.1	GWMP
pH (SU)	7.00	6.74	32.59	± 0.1	GWMP
pH (SU)	10.00	9.70	31.78	± 0.1	GWMP
ORP (mV)	228.0	216.0	31.37	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.38		

Calibration Check					
Time Start	1842	**Time Finish**	1850		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4805.9	31.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	30.79	± 0.1	GWMP
pH (SU)	7.00	~~7.23~~ 7.35	30.32	± 0.1	GWMP
pH (SU)	10.00	10.23	29.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.58		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/4/24

Calibrated By: Jay Stewart

Field Conditions: 86° / 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	832	**Time Finish**	845		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.77	25.73	± 10%	NA
Specific Conductance (µS/cm)	4,490	4568.6	25.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	25.58	± 0.1	GWMP
pH (SU)	7.00	7.05	25.21	± 0.1	GWMP
pH (SU)	10.00	10.13	25.58	± 0.1	GWMP
ORP (mV)	228.0	236.3	25.42	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.63		

Calibration Check					
Time Start	1535	**Time Finish**	1541		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4592.3	31.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	31.36	± 0.1	GWMP
pH (SU)	7.00	~~8.90~~ 7.28	32.07	± 0.1	GWMP
pH (SU)	10.00	10.07	31.15	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.28		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/4/2024 2:14:19 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.77 ft** **Total Depth: 30.77 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: 12V Proactive** **Tubing Type: LDPE** **Pump Intake From TOC: 23.27 ft** **Estimated Total Volume Pumped: 480000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 4.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 5 hours and 1,968 L prior to trolling. Gray/black purge water on initial pumping. 6.25ft of drawdown observed at 2.5GPM. Hydraulic surging performed across full length of the screen. Pumping performed at each foot of screen length for approximatley 10 minutes and an average of 20gals. 5.41ft of drawdown observed before termination of pumping at 2.5 GPM. Final Depth: 30.78ft.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/4/2024 2:14 PM	00:00	7.44 pH	24.67 °C	7,993.4 µS/cm	0.00 mg/L	1.03 NTU	-104.7 mV	10.45 ft	4.49 PSU	8,000.0 ml/min
6/4/2024 2:19 PM	05:00	7.49 pH	22.43 °C	8,199.3 µS/cm	0.01 mg/L	1.23 NTU	-258.0 mV	10.10 ft	4.61 PSU	8,000.0 ml/min
6/4/2024 2:24 PM	10:00	7.47 pH	22.42 °C	8,249.2 µS/cm	0.00 mg/L	0.97 NTU	-157.9 mV	10.74 ft	4.64 PSU	8,000.0 ml/min
6/4/2024 2:29 PM	15:00	7.47 pH	22.39 °C	8,314.6 µS/cm	0.00 mg/L	0.56 NTU	-166.9 mV	10.80 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:34 PM	20:00	7.46 pH	22.37 °C	8,235.2 µS/cm	0.00 mg/L	0.52 NTU	-176.6 mV	10.80 ft	4.63 PSU	8,000.0 ml/min
6/4/2024 2:39 PM	25:00	7.46 pH	22.37 °C	8,321.6 µS/cm	0.00 mg/L	0.56 NTU	-186.2 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:44 PM	30:00	7.46 pH	22.30 °C	8,333.3 µS/cm	0.00 mg/L	0.36 NTU	-194.7 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:49 PM	35:00	7.46 pH	22.29 °C	8,308.4 µS/cm	0.00 mg/L	0.36 NTU	-201.5 mV	10.79 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:54 PM	40:00	7.45 pH	22.35 °C	8,297.7 µS/cm	0.00 mg/L	0.33 NTU	-208.1 mV	10.80 ft	4.67 PSU	8,000.0 ml/min
6/4/2024 2:59 PM	45:00	7.44 pH	22.34 °C	8,278.6 µS/cm	0.00 mg/L	0.31 NTU	-215.4 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:04 PM	50:00	7.44 pH	22.36 °C	8,264.5 µS/cm	0.00 mg/L	0.26 NTU	-222.4 mV	10.80 ft	4.65 PSU	8,000.0 ml/min
6/4/2024 3:09 PM	55:00	7.44 pH	22.36 °C	8,280.2 µS/cm	0.00 mg/L	0.24 NTU	-228.0 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:14 PM	01:00:00	7.44 pH	22.35 °C	8,269.2 µS/cm	0.00 mg/L	1.43 NTU	-234.9 mV	10.80 ft	4.65 PSU	8,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/3/2024 4:25:45 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.22 ft** **Total Depth: 31.22 ft** **Initial Depth to Water: 6.67 ft**	**Pump Type: GeoTech Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 23.72 ft** **Estimated Total Volume Pumped: 170000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min** **Final Draw Down: -1.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 6+ hours and 2,365L prior to trolling. Gray purge water on initial pumping. 0.83ft of drawdown observed at 3GPM. Water cleared fast. Hydraulic surging performed across full length of the screen 2x with pumping being performed at each foot of screen length.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/3/2024 4:25 PM	00:00	7.51 pH	23.33 °C	6,902.5 µS/cm	0.30 mg/L	45.90 NTU	-65.5 mV	6.20 ft	3.84 PSU	1,400.0 ml/min
6/3/2024 4:30 PM	05:00	7.63 pH	22.96 °C	7,124.7 µS/cm	0.47 mg/L	35.20 NTU	-82.1 mV	6.03 ft	3.97 PSU	1,400.0 ml/min
6/3/2024 4:35 PM	10:00	7.71 pH	22.92 °C	7,298.9 µS/cm	1.49 mg/L	33.20 NTU	-75.4 mV	6.29 ft	4.07 PSU	1,400.0 ml/min
6/3/2024 4:40 PM	15:00	7.70 pH	22.81 °C	7,420.3 µS/cm	0.51 mg/L	23.20 NTU	-75.5 mV	6.02 ft	4.15 PSU	1,400.0 ml/min
6/3/2024 4:45 PM	20:00	7.68 pH	22.79 °C	7,547.7 µS/cm	0.32 mg/L	16.20 NTU	-86.9 mV	6.12 ft	4.22 PSU	1,400.0 ml/min
6/3/2024 4:50 PM	25:00	7.68 pH	22.79 °C	7,689.5 µS/cm	0.44 mg/L	15.40 NTU	-90.6 mV	6.08 ft	4.31 PSU	1,400.0 ml/min
6/3/2024 4:55 PM	30:00	7.67 pH	22.71 °C	7,739.5 µS/cm	0.29 mg/L	17.30 NTU	-93.8 mV	5.99 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:00 PM	35:00	7.66 pH	22.79 °C	7,748.0 µS/cm	0.28 mg/L	11.30 NTU	-97.4 mV	5.95 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:05 PM	40:00	7.66 pH	22.78 °C	7,742.5 µS/cm	0.31 mg/L	13.60 NTU	-99.9 mV	6.01 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:10 PM	45:00	7.65 pH	22.79 °C	7,736.3 µS/cm	0.27 mg/L	17.60 NTU	-105.0 mV	5.96 ft	4.33 PSU	1,400.0 ml/min
6/3/2024 5:15 PM	50:00	7.65 pH	22.79 °C	7,777.5 µS/cm	0.29 mg/L	11.70 NTU	-107.1 mV	5.92 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:20 PM	55:00	7.65 pH	22.72 °C	7,764.8 µS/cm	0.29 mg/L	17.80 NTU	-111.3 mV	5.90 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:25 PM	01:00:00	7.64 pH	22.76 °C	7,760.3 µS/cm	0.23 mg/L	16.50 NTU	-116.2 mV	5.78 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:30 PM	01:05:00	7.64 pH	22.79 °C	7,777.2 µS/cm	0.28 mg/L	13.50 NTU	-119.9 mV	5.65 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:35 PM	01:10:00	7.63 pH	22.75 °C	7,810.3 µS/cm	0.34 mg/L	14.10 NTU	-128.8 mV	5.72 ft	4.38 PSU	1,400.0 ml/min

6/3/2024 5:40 PM	01:15:00	7.63 pH	22.79 °C	7,797.3 µS/cm	0.37 mg/L	11.90 NTU	-136.2 mV	5.55 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 5:45 PM	01:20:00	7.63 pH	22.75 °C	7,808.1 µS/cm	0.35 mg/L	11.40 NTU	-149.0 mV	5.48 ft	4.38 PSU	1,400.0 ml/min
6/3/2024 5:50 PM	01:25:00	7.63 pH	22.74 °C	7,774.4 µS/cm	0.38 mg/L	12.20 NTU	-161.3 mV	5.39 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:55 PM	01:30:00	7.61 pH	22.83 °C	7,829.8 µS/cm	0.26 mg/L	10.22 NTU	-171.3 mV	5.25 ft	4.39 PSU	1,400.0 ml/min
6/3/2024 6:00 PM	01:35:00	7.64 pH	22.83 °C	7,808.5 µS/cm	0.51 mg/L	12.46 NTU	-173.2 mV	5.21 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:05 PM	01:40:00	7.60 pH	22.88 °C	7,807.1 µS/cm	0.27 mg/L	10.86 NTU	-186.6 mV	5.15 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:10 PM	01:45:00	7.62 pH	22.83 °C	7,803.2 µS/cm	0.43 mg/L	10.81 NTU	-192.0 mV	5.06 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:15 PM	01:50:00	7.59 pH	23.00 °C	7,841.5 µS/cm	0.19 mg/L	10.33 NTU	-201.3 mV	4.92 ft	4.40 PSU	1,400.0 ml/min
6/3/2024 6:20 PM	01:55:00	7.59 pH	23.03 °C	7,789.8 µS/cm	0.17 mg/L	8.53 NTU	-208.4 mV	4.86 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:25 PM	02:00:00	7.59 pH	22.97 °C	7,778.1 µS/cm	0.23 mg/L	9.19 NTU	-210.1 mV	4.81 ft	4.36 PSU	1,400.0 ml/min

Samples

Sample ID:	Description:

Appendix D

Survey Report

Shupe Surveying Company, P.C.

3837 Darien Hwy
Brunswick, GA 31525
912-265-0562

PLANT MCMANUS WELL SURVEY 9/05/2024

WELL #	NORTHING	EASTING	CASING ELEVATION	GROUND ELEVATION
INW-01	444418.01	850792.41	7.18	(NAIL) 7.50
DR-03	444422.02	850792.49	7.40	(NAIL) 7.65

HORIZONTAL DATUM: GA COORD SYSTEM, EAST ZONE NAD-83

VERTICAL DATUM: NAVD-88

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION FOR THE PVC WELL CASINGS.

DATE OF FIELD SURVEY & INSPECTION: 06/27/2024 AND 08/28/24. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL AND VERTICAL LOCATION: CARLSON BRX-7 GPS RECEIVER WITH A VRS NETWORK, CARLSON RT4 DATA COLLECTOR AND A GEOMAX MODEL ZONE 20-HV LASER LEVEL.

Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
MCM-01	YES	YES	NO	YES
MCM-02	YES	YES	NO	YES
MCM-04	YES	YES	NO	YES
MCM-05	YES	YES	NO	YES
MCM-06	YES	YES	NO	YES
MCM-07	YES	YES	NO	YES
MCM-11	YES	YES	NO	YES
MCM-12	YES	YES	NO	YES
MCM-14	YES	YES	NO	YES
MCM-15	YES	YES	NO	YES
MCM-16	YES	YES	NO	YES
MCM-17	YES	YES	NO	YES
MCM-18	YES	YES	NO	YES
MCM-19	YES	YES	NO	YES
MCM-20	YES	YES	NO	YES
DPZ-02	YES	YES	NO	YES
MW-01R	YES	YES	NO	YES
MW-02	YES	YES	NO	YES
MW-03	YES	YES	NO	YES
MW-04	YES	YES	NO	YES
MW-05	YES	YES	NO	YES
MW-06R	YES	YES	NO	YES
MW-07	YES	YES	NO	YES
MW-09	YES	YES	NO	YES
MW-10	YES	YES	NO	YES
MW-11	YES	YES	NO	YES
MW-12	YES	YES	NO	YES
MCM-03	YES	YES	NO	YES
MCM-08	YES	YES	NO	YES
MCM-10	YES	YES	NO	YES
MCM-13	YES	YES	NO	YES
PZ-09	YES	YES	NO	YES
PZ-10	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
PZ-12	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1 Date: 9/10/24

Permit Number: 063-030D (CCR) Field Conditions: 84/70, 0% Rain

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
DPZ-01	YES	YES	NO	YES
DPZ-03	YES	YES	NO	YES
DPZ-04	YES	YES	NO	YES
DPZ-05	YES	YES	NO	YES
DPZ-06	YES	YES	NO	YES
RW-1	YES	YES	NO	YES
RW-2	YES	YES	NO	YES
RW-3	YES	YES	NO	YES
RW-4	YES	YES	NO	YES
RW-5	YES	YES	NO	YES
RW-6	YES	YES	NO	YES
RW-7	YES	YES	NO	YES
RW-8	YES	YES	NO	YES
RW-9	YES	YES	NO	YES
RW-10	YES	YES	NO	YES
DR-01	YES	YES	NO	YES
DR-02	YES	YES	NO	YES
PT-01	YES	YES	NO	YES
PT-02	YES	YES	NO	YES
PT-03	YES	YES	NO	YES
PT-04D	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
MCM-01	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES
MW-02	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES
MW-05	YES	YES	NO	YES	YES
MW-06R	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
DPZ-01	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MCM-01	YES	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES	YES
MW-02	NO	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES	YES
MW-05	YES	YES	YES	YES	YES	YES
MW-06R	YES	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
PZ-12	NO	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
DPZ-01	YES	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/10/24

Permit Number: 063-030D (CCR)

Field Conditions: 84/70, 0% Rain

Well ID:	Corrective actions as needed, by date:
MCM-01	
MCM-02	
MCM-04	
MCM-05	
MCM-06	
MCM-07	
MCM-11	
MCM-12	
MCM-14	
MCM-15	
MCM-16	
MCM-17	
MCM-18	
MCM-19	
MCM-20	
DPZ-02	
MW-01R	
MW-02	Corner of surface pad is broken off, condition will be monitored and repaired if needed
MW-03	
MW-04	
MW-05	Weep hole will be drilled during next sampling event
MW-06R	
MW-07	
MW-09	
MW-10	
MW-11	
MW-12	
MCM-03	
MCM-08	
MCM-10	
MCM-13	
PZ-09	
PZ-10	
PZ-11	
PZ-12	Surface pad has a hairline fracture, condition will be monitored and repaired if needed

Well Inspection

Site Name: Plant McManus Former AP-1 Date: 9/10/24

Permit Number: 063-030D (CCR) Field Conditions: 84/70, 0% Rain

Well ID:	Corrective actions as needed, by date:
DPZ-01	
DPZ-03	
DPZ-04	
DPZ-05	
DPZ-06	
RW-1	
RW-2	
RW-3	
RW-4	
RW-5	
RW-6	
RW-7	
RW-8	
RW-9	
RW-10	
DR-01	
DR-02	
PT-01	
PT-02	
PT-03	
PT-04D	

APPENDIX B

SEMIANNUAL PILOT STUDY PROGRESS SUMMARY

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2024 Semiannual Pilot Study Progress Summary

Plant McManus Former Ash Pond 1 (AP-1)

Prepared by:

Arcadis U.S., Inc.
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Phone: 770 431 8666
Fax: 770 435 2666

Our Ref:
30180421

Prepared for:

Georgia Power Company
Brunswick, Georgia
Glynn County

CERTIFICATION STATEMENT

This 2024 Semiannual Pilot Study Progress Summary*, Georgia Power Company – Plant McManus Former Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng.), Vice President
February 28, 2025

2024 Semiannual Pilot Study Progress Summary

Plant McManus Former Ash Pond 1 (AP-1)
Georgia Power Company

February 28, 2025

Introduction

This Pilot Study Progress Summary (Summary) was developed by Arcadis U.S. Inc. (Arcadis) as part of implementing the Assessment of Corrective Measures (ACM) process at Georgia Power Company (Georgia Power) Plant McManus former Ash Pond 1 (AP-1). Arsenic is present in groundwater at statistically significant levels (SSLs) above the Groundwater Protection Standard (GWPS) of 0.032 milligrams per liter (mg/L) in detection monitoring well MCM-06. The nature and extent of arsenic can be found in Figure 9 of the adjoining 2024 Semiannual Groundwater Monitoring and Corrective Action Report (EnSafe 2025). A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to Georgia Environmental Protection Division (GA EPD) on February 28, 2023 (revised on January 18, 2024) (Arcadis 2024a). Following GA EPD's approval of the MCM-06 Pilot Study Workplan (Arcadis 2024b) on June 26, 2024, a pilot study was initiated at former AP-1 in support of the ongoing remedy selection process. The purpose of this Summary is to describe the in situ injection pilot study work completed at the site between July and December 2024 and includes baseline sampling, injection activities, and post-injection monitoring. In addition, the Pilot Study Post-Injection Report submitted to GA EPD 45 days after initiation of injection is included as Appendix A of this Summary and provides a detailed summary of pilot study work completed between June 1 and August 20, 2024.

Pilot Study Summary

Pilot study injection well INW-01 and performance monitoring well DR-03 were installed on June 1, 2024. The well completion report is included within the Pilot Study Post-Injection Report (Arcadis 2024c) included as Appendix A to this Summary.

Prior to injection, baseline groundwater sampling was conducted at the pilot study network, on June 18 to 19 and July 23, 2024 in accordance with the sampling schedule provided in Table 1 and the MCM-06 Pilot Study Work Plan (Arcadis 2024b). A summary of baseline groundwater analytical data is provided in Table 2 of the Pilot Study Post-Injection Report (Appendix A; Arcadis 2024c).

Injection activities were performed between August 13 to 20, 2024 by Cascade Drilling, Inc. with technical supervision conducted by Arcadis. Approximately 4,329 gallons (gal) of a 0.2% by weight solution of iron (Fe) and 0.037% deuterium tracer was administered at the MCM-06 pilot study area. The iron for the injection solution was supplied from a ferrous chloride salt. All pilot study injection

activities were completed in accordance with the GA EPD approved Pilot Test Notification Form and the MCM-06 Pilot Study Workplan (Arcadis 2024b).

Additional details pertaining to the remedial implementation (pilot study well installation, injection activities, and dose response monitoring) can be found in the Pilot Study Post-Injection Event Report (Arcadis 2024c) submitted to GA EPD 45 days after initiation of injection activities and included as Appendix A to this Report.

Post-Injection Sampling Summary

Post-injection performance monitoring sample collection was initiated on August 27, 2024 per the sampling schedule provided in Table 1[1]. The wells sampled in post-injection performance monitoring program included the injection well (INW-01), dose response wells (DR-02, PT-03, DR-03), performance monitoring wells (PT-01, PT-02, DR-01), and detection monitoring well (MCM-06). Groundwater samples collected from these wells were generally evaluated for the complete suite of Appendix III and Appendix IV constituents (except radium), arsenic speciation, geochemical parameters (including deuterium[2]), and field parameters. The groundwater analytical results from the post-injection performance monitoring events between August 27, 2024, and November 13, 2024 are summarized in Table 2. Time series plots for arsenic at the injection well, dose response wells, and performance monitoring wells associated with the pilot study are included in Figures 1 and 2. The field and laboratory reports associated with these results are provided in Appendix B and C, respectively.

Summary

Post-injection monitoring is ongoing, and Georgia Power anticipates submitting a comprehensive pilot study technical report as a stand-alone document by August 29, 2025. The report will provide findings and recommendations for the design and implementation of the full-scale remedy. Following submittal of the report, Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection) and MNA. After the public meeting, Georgia Power will revise the Draft Remedy Selection Report (Arcadis 2024a), incorporating results of the pilot study and public meeting comments.

[1] Changes to the sampling program compared to the sample schedule provided in the Pilot Study Work Plan (Arcadis 2024b) include the addition of boron, magnesium, potassium, and sodium to the analyte list (assessed during each sampling event) and an expansion of analytes evaluated from groundwater collected at INW-01 to match the analyte list for the dose response and performance monitoring wells.
[2]Deuterium results were analyzed by Isotope Tracer Technologies Inc. (Waterloo, Ontario) rather than the UC Davis Isotope Laboratory, as indicated in the Pilot Study Work Plan (Arcadis 2024b).

References

Arcadis. 2021. Semiannual Remedy Selection and Design Progress Report – Plant McManus Former Ash Pond 1. Prepared for Georgia Power Company. July 30.

Arcadis. 2024a. Draft Remedy Selection Report, Plant McManus Former Ash Pond 1, Brunswick, Georgia. February 28, 2023. Revised January 18, 2024.

Arcadis. 2024b. MCM-06 Pilot Study Work Plan - Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

Arcadis. 2024c. Pilot Study Post-Injection Event Report. Prepared for Georgia Power. September 27.

GA EPD. 2020. Final Closure through Removal Certification. Glynn- County – Plant McManus Ash Pond AP-1 APL 0631. January.

EnSafe. 2025. 2024 Semiannual Groundwater Monitoring and Corrective Action Report – Plant McManus Former Ash Pond AP-1. Prepared for Georgia Power Company. February 28.

United States. Code of Federal Regulations, Title 40, vol. 24, sec. 257, subpart D.

Attachments

Tables

Table 1. Pilot Study Sample Schedule – Post-Injection Monitoring

Table 2. Post-Injection Performance Monitoring Results

Figures

Figure 1. Total and Dissolved Arsenic: Injection and Dose Response Wells

Figure 2. Total and Dissolved Arsenic: Performance Monitoring and Detection Monitoring Wells

Appendices

Appendix A. Pilot Study Post-Injection Event Report (Arcadis 2024c)

Appendix B. Field Forms

Appendix C. Analytical Laboratory Reports

Tables

Table 1
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter		Analytical Method	GWPS (mg/L)	Baseline Sampling		Post Injection Monitoring					
						Month 1				Month 2	
						Week 1	Week 2	Week 3	Week 4	Week 6	Week 8
Sampling Event Dates				6/18/2024 6/19/2024	7/23/2024	8/27/2024 8/28/2024	9/5/2024	9/12/2024	9/17/2024 9/18/2024	10/1/2024 10/2/2024	10/15/2024 10/16/2024
Primary Performance Monitoring Parameters	Arsenic	EPA 6020B	0.032	X	X	X	X	X	X	X	X
	Iron	EPA 6020B	--	X	X	X	X	X	X	X	X
	Sulfide	SM 4500-S2D	--	X	X	X	X	X	X	X	X
	Sulfate	USEPA 300.0	--	X	X	X	X	X	X	X	X
	Deuterium (δ^2H H_2O)	IRMS	--	X		X	X	X	X	X	X
Appendix IV Parameters	Antimony	EPA 6020B	0.006	X		X	X	X	X	X	X
	Barium	EPA 6020B	2	X		X	X	X	X	X	X
	Beryllium	EPA 6020B	0.021	X		X	X	X	X	X	X
	Cadmium	EPA 6020B	0.005	X		X	X	X	X	X	X
	Chromium	EPA 6020B	0.10	X		X	X	X	X	X	X
	Cobalt	EPA 6020B	0.036	X		X	X	X	X	X	X
	Fluoride	USEPA 300.0	4	X		X	X	X	X	X	X
	Lead	EPA 6020B	0.015	X		X	X	X	X	X	X
	Lithium	EPA 6020B	0.049	X		X	X	X	X	X	X
	Mercury	EPA 7470A	0.002	X		X	X	X	X	X	X
	Molybdenum	EPA 6020B	0.1	X		X	X	X	X	X	X
	Selenium	EPA 6020B	0.05	X		X	X	X	X	X	X
	Thallium	EPA 6020B	0.002	X		X	X	X	X	X	X
Geochemical Parameters/ Appendix III Parameters	Alkalinity	SM 2320B	--	X	X	X			X		X
	Boron	EPA 6020B	--	X		X	X	X	X	X	X
	Calcium	EPA 6020B	--	X	X	X			X		X
	Chloride	SM 4500	--	X	X	X	X	X	X	X	X
	Magnesium	EPA 6020B	--	X	X	X			X		X
	Manganese	EPA 6020B	--	X	X	X			X		X
	Potassium	EPA 6020B	--	X	X	X			X		X
	Sodium	EPA 6020B	--	X	X	X			X		X
	Total Dissolved Solids	SM 2540C	--	X	X	X			X		X
	Arsenic Speciation	IC-ICP-MS	--	X		X			X		X
Field Parameters	Dissolved Oxygen	Field Measurement	--	X	X	X	X	X	X	X	X
	Oxidation Reduction Potential	Field Measurement	--	X	X	X	X	X	X	X	X
	pH	Field Measurement	--	X	X	X	X	X	X	X	X
	Specific Conductance	Field Measurement	--	X	X	X	X	X	X	X	X
	Temperature	Field Measurement	--	X	X	X	X	X	X	X	X
	Turbidity	Field Measurement	--	X	X	X	X	X	X	X	X

Notes and abbreviations on page 3

Table 1
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter		Analytical Method	Post Injection Monitoring			
			Month 3		Month 6	Month 9
			Week 10	Week 12	Week 22	Week 34
		Sampli	10/29/2024	11/12/2024 11/13/2024	To be completed	To be completed
Primary Performance Monitoring Parameters	Arsenic	EPA 6020B	X	X	X	X
	Iron	EPA 6020B	X	X	X	X
	Sulfide	SM 4500-S2D	X	X	X	X
	Sulfate	USEPA 300.0	X	X	X	X
	Deuterium (δ^2H H_2O)	IRMS	X	X	X	X
Appendix IV Parameters	Antimony	EPA 6020B	X	X	X	X
	Barium	EPA 6020B	X	X	X	X
	Beryllium	EPA 6020B	X	X	X	X
	Cadmium	EPA 6020B	X	X	X	X
	Chromium	EPA 6020B	X	X	X	X
	Cobalt	EPA 6020B	X	X	X	X
	Fluoride	USEPA 300.0	X	X	X	X
	Lead	EPA 6020B	X	X	X	X
	Lithium	EPA 6020B	X	X	X	X
	Mercury	EPA 7470A	X	X	X	X
	Molybdenum	EPA 6020B	X	X	X	X
	Selenium	EPA 6020B	X	X	X	X
	Thallium	EPA 6020B	X	X	X	X
Geochemical Parameters/ Appendix III Parameters	Alkalinity	SM 2320B		X	X	X
	Boron	EPA 6020B	X	X	X	X
	Calcium	EPA 6020B		X	X	X
	Chloride	SM 4500	X	X	X	X
	Magnesium	EPA 6020B		X	X	X
	Manganese	EPA 6020B		X	X	X
	Potassium	EPA 6020B		X	X	X
	Sodium	EPA 6020B		X	X	X
	Total Dissolved Solids	SM 2540C		X	X	X
	Arsenic Speciation	IC-ICP-MS		X	X	X
Field Parameters	Dissolved Oxygen	Field Measurement	X	X	X	X
	Oxidation Reduction Potential	Field Measurement	X	X	X	X
	pH	Field Measurement	X	X	X	X
	Specific Conductance	Field Measurement	X	X	X	X
	Temperature	Field Measurement	X	X	X	X
	Turbidity	Field Measurement	X	X	X	X

Notes and abbreviations on page 3

Table 1
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:
1. Appendix IV constituents are 40 CFR Part 257 Appendix IV constituents for assessment monitoring, excluding radium. Total and dissolved metals were evaluated during each sampling event.

Abbreviations:
GWPS = Groundwater Protection Standard
mg/L = milligram per liter
USEPA = United States Environmental Protection Agency
IRMS = Isotope Ratio Mass Spectroscopy
IC-ICP-MS = Ion chromatography Inductively Coupled Plasma Mass Spectroscopy
-- = no GWPS assigned to constituent

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Injection Well							
			INW-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	< 0.01	< 0.002	< 0.01	0.00235 J	< 0.01	< 0.002	< 0.01	< 0.002
Dissolved Arsenic	--	mg/L	< 0.002	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	0.00239 J
Total Iron	--	mg/L	1,470	205	118	76.6	30.2	26.0	19.1	20.0
Dissolved Iron	--	mg/L	1,330	207	96.9	68.0	32.4	23.4	19.4	18.4
Sulfide	--	mg/L	9.6	11	2.8	2.7	< 1	< 0.83	< 0.81	1.8
Sulfate	--	mg/L	230	808	975	1,010	930	725	758	730
Deuterium (δ2H H2O)	--	‰	2330.5 ± 2.9	369.4 ± 0.3	192.6 ± 1	124.7 ± 0.9	53 ± 0.4	40.1 ± 0.2	30.9 ± 0.2	19 ± 0.4
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.394	0.637 J	0.640 J	0.539 J	0.576 J	0.531 J	0.504 J	0.510 J
Dissolved Barium	--	mg/L	0.358	0.663 J	0.605 J	0.591 J	0.546 J	0.512 J	0.542 J	0.490 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001
Dissolved Boron	--	mg/L	0.283	0.414	0.416	0.453	0.482	0.499	0.516	0.568
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.015	< 0.015	< 0.003	< 0.015	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015
Fluoride	4	mg/L	1.11 J	< 0.66	< 0.66	< 0.66	< 0.33	< 0.33	< 0.33	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0180 J	0.0131 J	< 0.015	0.00988 J	0.00782 J	0.00746 J	0.00707 J	< 0.015
Dissolved Lithium	--	mg/L	0.0186	< 0.015	0.0101 J	< 0.015	< 0.015	0.00734 J	< 0.015	< 0.015
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000780 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000881 J	0.00197 J	0.00103 J	< 0.001	< 0.001	0.00119 J	0.000776 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.00198 J	< 0.001	< 0.001	0.0005 J
Total Selenium	0.05	mg/L	< 0.0075	0.00189 J	< 0.0075	0.00170 J	< 0.0075	0.00195 J	< 0.0075	0.0019 J
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	< 0.0075	< 0.015	< 0.0075	< 0.0075	< 0.0075	0.00209 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Injection Well INW-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	6	NA	NA	135	NA	167	NA	180
Total Boron	--	mg/L	0.293	0.451	0.424	0.449	0.461	0.494	0.536	0.587
Total Calcium	--	mg/L	132	NA	NA	239	NA	225	NA	237
Dissolved Calcium	--	mg/L	128	NA	NA	257	NA	223	NA	224
Chloride	--	mg/L	3,350	5,830	5,360	5,520	5,470	5,020	5,310	5,020
Total Magnesium	--	mg/L	132	NA	NA	320	NA	359	NA	348
Dissolved Magnesium	--	mg/L	123	NA	NA	347	NA	361	NA	340
Total Manganese	--	mg/L	0.415	NA	NA	0.119	NA	0.0783	NA	0.0747
Dissolved Manganese	--	mg/L	0.341	NA	NA	0.131	NA	0.0733	NA	0.072
Total Potassium	--	mg/L	37.7	NA	NA	88.2	NA	88.0	NA	97.1
Dissolved Potassium	--	mg/L	37.1	NA	NA	100	NA	87.9	NA	91.1
Total Sodium	--	mg/L	972	NA	NA	3,140	NA	3,300	NA	3,220
Dissolved Sodium	--	mg/L	838	NA	NA	3,270	NA	3,310	NA	3,140
Total Dissolved Solids	--	mg/L	4,900	NA	NA	10,900	NA	10,600	NA	9,890
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	6.0	3.5	7.0	3.0	5.0	2.0	5.0
Dissolved Oxygen	--	mg/L	0.05	0.47	0.06	0.02	0.02	0.02	0.02	0.07
Oxidation Reduction Potential	--	mV	-77.25	-65.18	-88.25	-93.91	-69.95	-120.64	-185.02	-156.63
pH	--	SU	5.85	6.24	6.36	6.46	6.47	6.53	6.54	6.55
Specific Conductance	--	µS/cm	10065.58	17041.60	17284.08	16922.97	17256.03	17462.24	17610.02	16964.86
Temperature	--	°C	28.17	25.15	25.85	28.03	26.49	26.16	23.87	25.22
Turbidity	--	NTU	22.30	2.18	63.40	40.50	9.83	8.73	4.47	0.99
Arsenic Speciation										
As(III)	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
As(V)	--	µg/L	≤ 0.500	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	1.12 J	NA	≤ 0.250

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-03							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/17/2024	Week 6 10/1/2024	Week 8 10/15/2024	Week 10 10/29/2024	Week 12 11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	< 0.01	0.00538 J	0.00358 J	0.00371 J	0.00344 J	0.00254 J	< 0.01	< 0.002
Dissolved Arsenic	--	mg/L	0.00450 J	< 0.01	0.00357 J	< 0.01	0.00243 J	0.00221 J	< 0.01	< 0.002
Total Iron	--	mg/L	1,210	403	212	165	85.2	47.9	34.6	32.6
Dissolved Iron	--	mg/L	1,080	437	215	155	89.7	47.1	31.9	31.1
Sulfide	--	mg/L	11	12	11	12	< 1	4.2	3.1	9.4
Sulfate	--	mg/L	111	249	324	338	1,170	247	258	261
Deuterium (δ2H H2O)	--	‰	2647.3 ± 27.6	1053.5 ± 4.1	564.7 ± 8.7	421.1 ± 0.5	170.4 ± 0.5	84.5 ± 0.3	55.6 ± 0.4	41.3 ± 0.3
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Barium	2	mg/L	0.0590	0.0420 J	0.0386 J	0.0345 J	0.0326 J	0.0283 J	0.0270 J	0.0248 J
Dissolved Barium	--	mg/L	0.0522	0.0453 J	0.0379 J	0.0340 J	0.0312 J	0.0283 J	0.0272 J	0.0251 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.314	0.687	0.763	0.861	0.911	0.884	0.951	0.948
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	0.000315 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	1.09	1.42 J	1.08	1.03	1.92	0.799 J	0.689 J	0.809 J
Total Lead	0.015	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0315	0.0482	0.0467	0.0472	0.0456	0.0445	0.0531	0.0503
Dissolved Lithium	--	mg/L	0.0364	0.0482 J	0.0466	0.0479	0.0437	0.0431	0.0502	0.0500
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000760 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000780 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.00111 J	0.000936 J	0.000959 J	0.000860 J	0.000716 J	< 0.001	0.000597 J
Dissolved Molybdenum	--	mg/L	0.000678 J	< 0.001	0.000821 J	0.000834 J	0.000675 J	0.000570 J	0.000547 J	0.000500 J
Total Selenium	0.05	mg/L	< 0.0075	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075	< 0.0015
Total Thallium	0.002	mg/L	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-03							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/17/2024	Week 6 10/1/2024	Week 8 10/15/2024	Week 10 10/29/2024	Week 12 11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	28	NA	NA	180	NA	215	NA	268
Total Boron	--	mg/L	0.354	0.675	0.744	0.844	0.843	0.958	0.987	0.934
Total Calcium	--	mg/L	153	NA	NA	89.1	NA	73.7	NA	78.4
Dissolved Calcium	--	mg/L	149	NA	NA	96.4	NA	68.9	NA	78.8
Chloride	--	mg/L	2,340	2,290	2,110	2,070	2,170	1,890	2,010	2,150
Total Magnesium	--	mg/L	99.3	NA	NA	101	NA	111	NA	122
Dissolved Magnesium	--	mg/L	93.9	NA	NA	115	NA	104	NA	125
Total Manganese	--	mg/L	1.53	NA	NA	0.66	NA	0.317	NA	0.272
Dissolved Manganese	--	mg/L	1.46	NA	NA	0.679	NA	0.321	NA	0.27
Total Potassium	--	mg/L	26.8	NA	NA	45.6	NA	48.6	NA	57.8
Dissolved Potassium	--	mg/L	27.6	NA	NA	52.8	NA	46.8	NA	58.0
Total Sodium	--	mg/L	334	NA	NA	1,130	NA	1,340	NA	1,430
Dissolved Sodium	--	mg/L	298	NA	NA	1,200	NA	1,230	NA	1,440
Total Dissolved Solids	--	mg/L	3,080	NA	NA	4,350	NA	4,180	NA	4,070
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	7.0	7.0	6.0	7.0	3.0	3.0	3.0
Dissolved Oxygen	--	mg/L	0.04	0.35	0.02	0.00	-0.02	-0.03	-0.01	-0.02
Oxidation Reduction Potential	--	mV	-145.86	-136.79	-163.16	-174.87	-373.18	-364.61	-471.23	-487.18
pH	--	SU	6.29	6.48	6.73	6.81	6.87	6.92	6.90	6.98
Specific Conductance	--	µS/cm	6918.91	7124.26	7259.53	7107.64	7374.22	7464.48	7596.26	7503.38
Temperature	--	°C	26.91	24.42	25.09	24.13	26.03	24.58	22.79	24.59
Turbidity	--	NTU	11.72	8.09	7.83	4.66	3.49	1.96	2.58	0.74
Arsenic Speciation										
As(III)	--	µg/L	0.289 J	NA	NA	0.320 J	NA	≤ 0.800	NA	0.364 J
As(V)	--	µg/L	3.8	NA	NA	1.9	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well PT-03							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/17/2024	Week 6 10/1/2024	Week 8 10/15/2024	Week 10 10/29/2024	Week 12 11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0226 J	0.0105	0.00507 J	0.0109	0.00852 J	0.0108	0.0163 J	0.0106
Dissolved Arsenic	--	mg/L	0.00747	< 0.01	0.00315 J	< 0.01	0.00855 J	0.0107	0.0154 J	0.00943 J
Total Iron	--	mg/L	128	6.29	18.1	3.10	0.860	0.492	0.729	0.702
Dissolved Iron	--	mg/L	127	3.40	8.26	2.05	0.518	0.354	0.381	0.453 J
Sulfide	--	mg/L	9.9	12	13	16	31	26	16	18
Sulfate	--	mg/L	464	546	379	505	448	480	437	583
Deuterium (δ2H H2O)	--	‰	399.2 ± 1.5	29.2 ± 0.3	42.3 ± 0.4	13.8 ± 0.3	14.7 ± 0.5	9.2 ± 0.5	7.1 ± 0.4	6.5 ± 0.5
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001
Total Barium	2	mg/L	0.344	0.389 J	0.171 J	0.344 J	0.247 J	0.275 J	0.238 J	0.312 J
Dissolved Barium	--	mg/L	0.319	0.430 J	0.170 J	0.358 J	0.255 J	0.308 J	0.225 J	0.311 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.573	0.647	0.701	0.637	0.690	0.695	0.703	0.660
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.400 HJ	< 0.66	0.812 J	0.398 J	0.418 J	0.423 J	0.984 J	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0305 J	0.0282 J	0.0395 J	0.0285 J	0.0332 J	0.0317 J	0.0396 J	0.0309 J
Dissolved Lithium	--	mg/L	0.0333	0.0291 J	0.0374 J	0.0296 J	0.0320 J	0.0330 J	0.0376 J	0.0320 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000840 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000810 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	0.00159 J	0.000517 J	< 0.001	0.000453 J	0.000462 J	0.000382 J	< 0.001	0.000473 J
Dissolved Molybdenum	--	mg/L	0.00148	< 0.001	0.000247 J	< 0.001	0.000284 J	< 0.001	0.000280 J	0.000320 J
Total Selenium	0.05	mg/L	< 0.0075	0.00195 J	0.00183 J	0.00158 J	0.00150 J	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	0.00167 J	< 0.0075	0.00159 J	0.00186 J	< 0.0075	0.00181 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well PT-03							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	145	NA	NA	210	NA	221	NA	202
Total Boron	--	mg/L	0.586	0.634	0.721	0.641	0.679	0.652	0.719	0.633
Total Calcium	--	mg/L	164	NA	NA	160	NA	146	NA	177
Dissolved Calcium	--	mg/L	165	NA	NA	173	NA	155	NA	183
Chloride	--	mg/L	4,030	4,530	3,180	3,870	3,460	3,650	3,450	4,370
Total Magnesium	--	mg/L	216	NA	NA	229	NA	231	NA	277
Dissolved Magnesium	--	mg/L	209	NA	NA	258	NA	248	NA	309
Total Manganese	--	mg/L	0.379	NA	NA	0.093	NA	0.0656	NA	0.0931
Dissolved Manganese	--	mg/L	0.425	NA	NA	0.0932	NA	0.0734	NA	0.0959
Total Potassium	--	mg/L	66.1	NA	NA	72.1	NA	72.4	NA	78.9
Dissolved Potassium	--	mg/L	65.4	NA	NA	84.0	NA	76.3	NA	82.1
Total Sodium	--	mg/L	2,270	NA	NA	2,150	NA	2,090	NA	2,330
Dissolved Sodium	--	mg/L	1,850	NA	NA	2,320	NA	2,220	NA	2,570
Total Dissolved Solids	--	mg/L	6,820	NA	NA	7,530	NA	6,800	NA	6,420
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	4.0	2.0	2.0	1.5	0.5	1.0	0.5
Dissolved Oxygen	--	mg/L	0.00	0.12	-0.02	0.00	0.00	0.00	0.02	-0.01
Oxidation Reduction Potential	--	mV	-347.36	-193.43	-352.65	-339.32	-293.58	-333.11	-325.73	-330.14
pH	--	SU	6.39	6.65	6.78	6.62	6.76	6.57	6.84	6.55
Specific Conductance	--	µS/cm	12049.10	14047.99	9325.37	12430.00	11598.35	13564.16	11673.45	13418.47
Temperature	--	°C	26.51	25.53	25.21	25.98	25.60	26.11	24.36	25.50
Turbidity	--	NTU	4.36	4.79	6.25	3.55	0.53	0.83	2.11	0.75
Arsenic Speciation										
As(III)	--	µg/L	3.6	NA	NA	0.414 J	NA	≤ 0.800	NA	0.385 J
As(V)	--	µg/L	3.5	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	0.441 J	NA	NA	5.5	NA	9.2	NA	13.3

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-02							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/18/2024	Week 6 10/1/2024	Week 8 10/16/2024	Week 10 10/29/2024	Week 12 11/13/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.151	0.0659	0.0449	0.0652	0.0571	0.0576	0.0508	0.0556
Dissolved Arsenic	--	mg/L	0.0571	0.0616	0.0470	0.0652	0.0521	0.0604	0.0676	0.0568
Total Iron	--	mg/L	5.47	1.26	0.287	1.32	0.213	0.477	0.108	0.324 J
Dissolved Iron	--	mg/L	0.0707 J	< 0.165	0.0586 J	0.142	0.0369 J	0.182	0.0459 J	< 0.165
Sulfide	--	mg/L	35	30	33	8.5	64	27	28	33
Sulfate	--	mg/L	310	325	317	329	324	330	343	383
Deuterium (δ2H H2O)	--	‰	8.8 ± 0.2	6.6 ± 0.1	2.4 ± 0.2	6.4 ± 0.2	6 ± 0.2	5.8 ± 0.4	6.5 ± 0.4	7.4 ± 0.1
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Barium	2	mg/L	0.0813	0.0675 J	0.0537 J	0.0692 J	0.0652 J	0.0734 J	0.0571 J	0.0718 J
Dissolved Barium	--	mg/L	0.0758	0.0713 J	0.0518 J	0.0697 J	0.0714 J	0.0720 J	0.0543 J	0.0725 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.811	0.950	0.852	0.910	0.870	0.866	0.897	0.907
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	0.00407 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	0.000300 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.587 HJ	0.918 J	0.870 J	0.618 J	0.613 J	0.587 J	2.64	0.588 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0428	0.0478	0.0440	0.0489	0.0478	0.0486	0.0532	0.0567
Dissolved Lithium	--	mg/L	0.0527	0.0536	0.0478	0.0503	0.0468	0.0490	0.0528	0.0570
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000750 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	0.00244 J	0.00121 J	0.000840 J	0.00110 J	0.00104 J	0.000956 J	< 0.001	0.00105 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	0.000459 J	0.000557 J	0.000595 J	0.000624 J	0.000596 J	0.000571 J
Total Selenium	0.05	mg/L	< 0.0075	0.00162 J	0.00193 J	< 0.0015	0.00887 J	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	0.00170 J	< 0.0075	0.00163 J	< 0.0015	< 0.0075	< 0.0015
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/16/2024	10/29/2024	11/13/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	321	NA	NA	306	NA	303	NA	301
Total Boron	--	mg/L	0.777	0.838	0.825	0.898	0.840	0.843	0.924	0.923
Total Calcium	--	mg/L	100	NA	NA	105	NA	114	NA	130
Dissolved Calcium	--	mg/L	99.8	NA	NA	113	NA	114	NA	132
Chloride	--	mg/L	2,690	2,860	2,590	2,690	2,730	2,680	2,720	3,140
Total Magnesium	--	mg/L	170	NA	NA	173	NA	192	NA	225
Dissolved Magnesium	--	mg/L	167	NA	NA	197	NA	193	NA	236
Total Manganese	--	mg/L	0.105	NA	NA	0.0951	NA	0.0943	NA	0.115
Dissolved Manganese	--	mg/L	0.089	NA	NA	0.0925	NA	0.0955	NA	0.114
Total Potassium	--	mg/L	65.5	NA	NA	67.3	NA	69.6	NA	77.2
Dissolved Potassium	--	mg/L	65.1	NA	NA	77.1	NA	70.0	NA	78.5
Total Sodium	--	mg/L	1,730	NA	NA	1,640	NA	1,710	NA	1,800
Dissolved Sodium	--	mg/L	1,510	NA	NA	1,640	NA	1,670	NA	1,900
Total Dissolved Solids	--	mg/L	4,570	NA	NA	5,730	NA	5,510	NA	5,780
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	0.5	1.0	1.0	0.5	1.0	1.0	0.5
Dissolved Oxygen	--	mg/L	0.03	0.03	0.02	0.03	0.04	0.01	0.04	0.03
Oxidation Reduction Potential	--	mV	-369.53	-366.88	-369.60	-350.04	-340.27	-368.89	-361.10	-297.50
pH	--	SU	7.33	7.31	7.38	7.33	7.32	7.29	7.36	7.20
Specific Conductance	--	µS/cm	9125.20	9364.84	9080.64	9559.51	9650.98	9941.72	9616.20	10162.46
Temperature	--	°C	25.32	24.68	24.67	24.19	24.68	22.97	23.96	25.00
Turbidity	--	NTU	3.19	2.02	2.35	3.55	1.10	1.23	1.99	0.72
Arsenic Speciation										
As(III)	--	µg/L	0.658 J	NA	NA	0.604 J	NA	≤ 0.800	NA	0.658 J
As(V)	--	µg/L	≤ 0.500	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	89.6	NA	NA	71.1	NA	79.5	NA	80.9

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well							
			PT-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0131 J	0.00878 J	0.0144	0.00991 J	0.0130 J	0.0109	0.0166 J	0.0115
Dissolved Arsenic	--	mg/L	0.0141 J	0.0105 J	0.0117	< 0.01	0.0108	0.00983 J	0.0177 J	0.00987 J
Total Iron	--	mg/L	0.446 J	0.118	0.233	0.320	0.156	0.106	0.0907 J	0.218 J
Dissolved Iron	--	mg/L	0.106	< 0.165	0.0789 J	0.0711 J	0.0929 J	0.0808 J	< 0.165	< 0.165
Sulfide	--	mg/L	23	20	24	21	36	21	15	20
Sulfate	--	mg/L	526	542	525	548	523	533	517	573
Deuterium (δ2H H2O)	--	‰	10.6 ± 0.5	5.4 ± 0.2	8.8 ± 0.4	6.8 ± 0.3	6.1 ± 0.4	4.8 ± 0.3	5.6 ± 0.3	6.5 ± 0.1
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.687	0.693 J	0.621 J	0.684 J	0.633 J	0.629 J	0.573 J	0.579 J
Dissolved Barium	--	mg/L	0.661	0.721 J	0.608 J	0.726 J	0.659 J	0.640 J	0.644 J	0.588 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001
Dissolved Boron	--	mg/L	0.759	0.758	0.737	0.719	0.777	0.701	0.753	0.739
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.015	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0015	< 0.0015
Fluoride	4	mg/L	0.347 HJ	< 0.66	< 0.66	0.395 J	0.390 J	0.389 J	< 0.33	0.373 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0310 J	0.0293 J	0.0345 J	0.0299 J	0.0318 J	0.0330 J	0.0374 J	0.0374 J
Dissolved Lithium	--	mg/L	0.0381	0.0322 J	0.0344 J	0.0313 J	0.0321 J	0.0338 J	0.0402 J	0.0363 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000676 J	< 0.001	0.000643 J	0.0006770 J	0.000568 J	0.000620 J	0.000632 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000412 J	< 0.001	< 0.001	0.000366 J
Total Selenium	0.05	mg/L	< 0.0075	0.00199 J	0.00230 J	< 0.0015	< 0.0075	0.00157 J	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00224 J	< 0.0075	0.00162 J	0.00165 J	< 0.0075	0.00176 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well PT-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	231	NA	NA	229	NA	232	NA	236
Total Boron	--	mg/L	0.656	0.751	0.723	0.726	0.700	0.739	0.736	0.708
Total Calcium	--	mg/L	176	NA	NA	183	NA	184	NA	189
Dissolved Calcium	--	mg/L	180	NA	NA	192	NA	180	NA	186
Chloride	--	mg/L	4,360	4,550	4,090	4,270	4,100	4,070	4,160	4,550
Total Magnesium	--	mg/L	283	NA	NA	283	NA	296	NA	308
Dissolved Magnesium	--	mg/L	274	NA	NA	303	NA	316	NA	308
Total Manganese	--	mg/L	0.279	NA	NA	0.279	NA	0.258	NA	0.307
Dissolved Manganese	--	mg/L	0.274	NA	NA	0.31	NA	0.263	NA	0.308
Total Potassium	--	mg/L	82.3	NA	NA	85.9	NA	91.9	NA	92.1
Dissolved Potassium	--	mg/L	88.1	NA	NA	99.0	NA	89.3	NA	92.2
Total Sodium	--	mg/L	2,340	NA	NA	2,270	NA	2,440	NA	2,390
Dissolved Sodium	--	mg/L	2,140	NA	NA	2,370	NA	2,420	NA	2,380
Total Dissolved Solids	--	mg/L	8,320	NA	NA	8,460	NA	7,970	NA	7,350
Field Parameters										
Ferrous (II) Iron	--	mg/L	1.0	0.5	0.5	0.5	1.0	0.0	0.0	0.0
Dissolved Oxygen	--	mg/L	0.05	0.07	0.04	0.02	0.01	0.04	0.03	0.01
Oxidation Reduction Potential	--	mV	-339.56	-316.35	-291.32	-339.07	-308.00	-187.61	-331.67	-300.07
pH	--	SU	6.74	6.80	6.87	6.80	6.79	6.76	6.83	6.79
Specific Conductance	--	µS/cm	14103.32	12220.49	12904.38	13974.17	13842.26	13990.76	13762.61	14561.80
Temperature	--	°C	26.19	24.13	24.18	24.31	25.68	23.41	24.45	25.90
Turbidity	--	NTU	1.10	0.92	1.01	0.70	0.66	0.40	0.12	0.29
Arsenic Speciation										
As(III)	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
As(V)	--	µg/L	≤ 0.500	NA	NA	NA	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	13.4	NA	NA	NA	NA	13.2	NA	14.4

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well							
			PT-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/13/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0101 J	0.00368 J	0.0231	0.0120	0.0292	0.00730 J	0.0281	0.00446 J
Dissolved Arsenic	--	mg/L	0.0107 J	< 0.01	0.0219	0.011 J	0.0279	0.00677 J	0.0240 J	0.00409 J
Total Iron	--	mg/L	3.11	3.70	1.24	3.62	0.909	2.67	2.17	2.04
Dissolved Iron	--	mg/L	2.59	4.22	1.16	3.50	0.763	2.74	2.20	1.95
Sulfide	--	mg/L	18	13	25	17	35	15	13	13
Sulfate	--	mg/L	499	538	430	513	438	512	453	547
Deuterium (δ2H H2O)	--	‰	1.1 ± 0.4	3.6 ± 0.2	7.7 ± 0.2	5 ± 0.3	4.8 ± 0.3	3.6 ± 0.2	5.3 ± 0.2	4.4 ± 0.4
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.582	0.660 J	0.496 J	0.578 J	0.486 J	0.597 J	0.482 J	0.533 J
Dissolved Barium	--	mg/L	0.585	0.711 J	0.477 J	0.621 J	0.485 J	0.609 J	0.539 J	0.563 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001
Dissolved Boron	--	mg/L	0.589	0.609	0.618	0.597	0.673	0.542	0.630	0.551
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0015
Fluoride	4	mg/L	< 0.33 H	< 0.66	< 0.66	< 0.33	0.400 J	< 0.33	1.55	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0210 J	0.0159 J	0.0290 J	0.0195 J	0.0239 J	0.0175 J	0.0265 J	0.0179 J
Dissolved Lithium	--	mg/L	0.0253	0.0177 J	0.0272 J	0.0197 J	0.0253 J	0.0194 J	0.0234 J	0.0176 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000686 J	< 0.001	0.000804 J	0.000810 J	0.000794 J	0.000863 J	0.000742 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000483 J	< 0.001	< 0.001	0.000543 J
Total Selenium	0.05	mg/L	< 0.0075	0.00207 J	0.00220 J	0.00209 J	0.00159 J	0.00174 J	< 0.0075	0.00184 J
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00260 J	< 0.0075	0.00183 J	0.00198 J	< 0.0075	0.00181 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well PT-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/13/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	208	NA	NA	209	NA	201	NA	199
Total Boron	--	mg/L	0.554	0.549	0.669	0.582	0.606	0.571	0.636	0.538
Total Calcium	--	mg/L	167	NA	NA	169	NA	179	NA	185
Dissolved Calcium	--	mg/L	171	NA	NA	181	NA	175	NA	188
Chloride	--	mg/L	4,090	4,450	3,660	3,890	3,640	4,060	3,780	4,380
Total Magnesium	--	mg/L	245	NA	NA	248	NA	273	NA	286
Dissolved Magnesium	--	mg/L	254	NA	NA	275	NA	283	NA	291
Total Manganese	--	mg/L	0.248	NA	NA	0.248	NA	0.224	NA	0.258
Dissolved Manganese	--	mg/L	0.261	NA	NA	0.264	NA	0.233	NA	0.261
Total Potassium	--	mg/L	71.3	NA	NA	73.2	NA	74.8	NA	75.0
Dissolved Potassium	--	mg/L	73.8	NA	NA	83.2	NA	72.4	NA	75.7
Total Sodium	--	mg/L	2,380	NA	NA	2,100	NA	2,200	NA	2,340
Dissolved Sodium	--	mg/L	2,070	NA	NA	2,240	NA	2,240	NA	2,360
Total Dissolved Solids	--	mg/L	6,620	NA	NA	8,000	NA	7,590	NA	7,410
Field Parameters										
Ferrous (II) Iron	--	mg/L	2.5	1.0	1.5	1.5	1.5	1.5	1.5	2.5
Dissolved Oxygen	--	mg/L	0.03	0.05	0.02	0.01	0.03	0.06	0.01	0.03
Oxidation Reduction Potential	--	mV	-366.41	-198.53	-401.53	-293.99	-323.69	-278.33	-342.87	-177.70
pH	--	SU	6.53	6.53	6.82	6.57	6.66	6.49	6.55	6.47
Specific Conductance	--	µS/cm	12687.34	11824.70	11634.53	12936.64	12189.96	13119.68	12777.99	13115.86
Temperature	--	°C	24.63	24.69	24.14	26.21	24.94	24.99	25.62	24.72
Turbidity	--	NTU	0.37	0.36	0.29	0.11	0.17	0.36	0.06	0.42
Arsenic Speciation										
As(III)	--	µg/L	0.524 J	NA	NA	NA	NA	1.32 J	NA	0.674 J
As(V)	--	µg/L	≤ 0.500	NA	NA	NA	NA	23.3	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	9.3	NA	NA	NA	NA	9.4	NA	12.2

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well							
			DR-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0385	0.0205	0.0270	0.0180	0.0263	0.0200	0.0281	0.0205
Dissolved Arsenic	--	mg/L	0.0400	0.0236 J	0.0281	0.0160 J	0.0219	0.0174	0.0256	0.0154
Total Iron	--	mg/L	0.552	0.302	0.265	0.223	0.317	0.488	0.132	0.593
Dissolved Iron	--	mg/L	0.214	0.201 J	0.238	0.132	0.272	0.328	0.112	0.242 J
Sulfide	--	mg/L	31	24	27	23	40	24	18	23
Sulfate	--	mg/L	478	509	482	498	465	513	468	537
Deuterium (δ2H H2O)	--	‰	8.2 ± 0.5	7.4 ± 0.3	9.8 ± 0.5	7.5 ± 0.3	6.4 ± 0.4	5.7 ± 0.4	6.3 ± 0.4	7.1 ± 0.5
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001
Total Barium	2	mg/L	0.341	0.370 J	0.326 J	0.372 J	0.335 J	0.349 J	0.316 J	0.344 J
Dissolved Barium	--	mg/L	0.280	0.377 J	0.334 J	0.387 J	0.338 J	0.371 J	0.318 J	0.351 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.659	0.752	0.723	0.676	0.746	0.726	0.788	0.865
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.396 HJ	< 0.66	< 0.66	0.409 J	0.445 J	0.411 J	1.95	0.437 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0397 J	0.0409	0.0429	0.0419	0.0431	0.0435	0.0479	0.0472 J
Dissolved Lithium	--	mg/L	0.0462	0.0454 J	0.0431	0.0415	0.0419	0.0445	0.0478	0.0537
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000740 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000655 J	< 0.001	0.000551 J	0.000741 J	0.000607 J	< 0.001	0.000719 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000376 J	< 0.001	0.00040 J	0.000371 J
Total Selenium	0.05	mg/L	< 0.0075	0.00196 J	0.00240 J	< 0.0015	< 0.0075	0.00171 J	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00238 J	< 0.0075	0.00180 J	0.00190 J	< 0.0075	0.00161 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well DR-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	252	NA	NA	236	NA	240	NA	251
Total Boron	--	mg/L	0.631	0.724	0.691	0.727	0.713	0.714	0.785	0.776
Total Calcium	--	mg/L	169	NA	NA	175	NA	169	NA	181
Dissolved Calcium	--	mg/L	155	NA	NA	182	NA	170	NA	201
Chloride	--	mg/L	4,280	4,550	4,080	4,190	3,960	4,140	3,910	4,440
Total Magnesium	--	mg/L	303	NA	NA	313	NA	321	NA	321
Dissolved Magnesium	--	mg/L	273	NA	NA	318	NA	323	NA	327
Total Manganese	--	mg/L	0.194	NA	NA	0.194	NA	0.181	NA	0.207
Dissolved Manganese	--	mg/L	0.176	NA	NA	0.196	NA	0.186	NA	0.225
Total Potassium	--	mg/L	79.8	NA	NA	82.3	NA	84.1	NA	91.8
Dissolved Potassium	--	mg/L	76.1	NA	NA	92.2	NA	84.8	NA	100
Total Sodium	--	mg/L	2,390	NA	NA	2,250	NA	2,250	NA	2,320
Dissolved Sodium	--	mg/L	2,150	NA	NA	2,320	NA	2,270	NA	2,400
Total Dissolved Solids	--	mg/L	7,650	NA	NA	8,560	NA	7,580	NA	6,870
Field Parameters										
Ferrous (II) Iron	--	mg/L	1.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5
Dissolved Oxygen	--	mg/L	0.04	0.08	0.04	0.02	0.03	0.05	0.03	0.02
Oxidation Reduction Potential	--	mV	-355.88	-332.56	-279.25	-339.12	-281.16	-328.38	-332.73	-306.27
pH	--	SU	6.86	6.80	6.89	6.79	6.78	6.80	6.86	6.79
Specific Conductance	--	µS/cm	12782.20	12026.61	13006.33	13809.65	13375.54	13205.98	13128.66	13839.41
Temperature	--	°C	25.12	24.69	24.41	24.82	25.26	25.19	23.92	25.81
Turbidity	--	NTU	0.50	0.15	0.42	0.37	0.43	0.37	0.16	0.28
Arsenic Speciation										
As(III)	--	µg/L	1.5	NA	NA	NA	NA	≤ 0.800	NA	0.294 J
As(V)	--	µg/L	≤ 0.500	NA	NA	NA	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	57.8	NA	NA	NA	NA	26.5	NA	29.1

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Detection Monitoring Well MCM-06							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.111	0.110	0.107	0.101	0.099	0.0991	0.117	0.109
Dissolved Arsenic	--	mg/L	0.107	0.125	0.105	0.118	0.103	0.104	0.127	0.105
Total Iron	--	mg/L	< 0.165	0.0442 J	0.0435 J	0.0453 J	0.0590 J	0.0397 J	0.0498 J	< 0.165
Dissolved Iron	--	mg/L	0.0360 J	< 0.165	0.0445 J	< 0.033	0.0462 J	0.0445 J	0.0495 J	< 0.165
Sulfide	--	mg/L	42	42	47	43	67	40	35	36
Sulfate	--	mg/L	348	310	271	296	376	408	385	430
Deuterium (δ2H H2O)	--	‰	11.1 ± 0.4	36.6 ± 1	5.3 ± 0.3	3.9 ± 0.5	8.9 ± 0.1	6.6 ± 0.4	7.2 ± 0.4	8.6 ± 0.1
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.0902	0.0822 J	0.0727	0.0782 J	0.105 J	0.115 J	0.111 J	0.113 J
Dissolved Barium	--	mg/L	0.0907	0.0831 J	0.0776 J	0.0806 J	0.105 J	0.117 J	0.119 J	0.114 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.696	0.732	0.680	0.750	0.740	0.672	0.735	0.764
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.470 HJ	< 0.66	0.392 J	0.594 J	0.488 J	0.476 J	0.415 J	0.501 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0534	0.0531	0.0550	0.0535	0.0549	0.0583	0.0659	0.0708
Dissolved Lithium	--	mg/L	0.0615	0.0555	0.0518	0.0561	0.0550	0.0615	0.0677	0.0719
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000760 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000750 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000906 J	0.000895 J	0.000904 J	0.000969 J	0.000714 J	0.000899 J	0.000912 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	0.000486 J	< 0.001	0.000366 J	< 0.001	< 0.001	0.000273 J
Total Selenium	0.05	mg/L	< 0.0075	0.00162 J	< 0.0015	< 0.0015	0.00169 J	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00172 J	< 0.0075	0.00155 J	0.00171 J	< 0.0075	< 0.0015
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

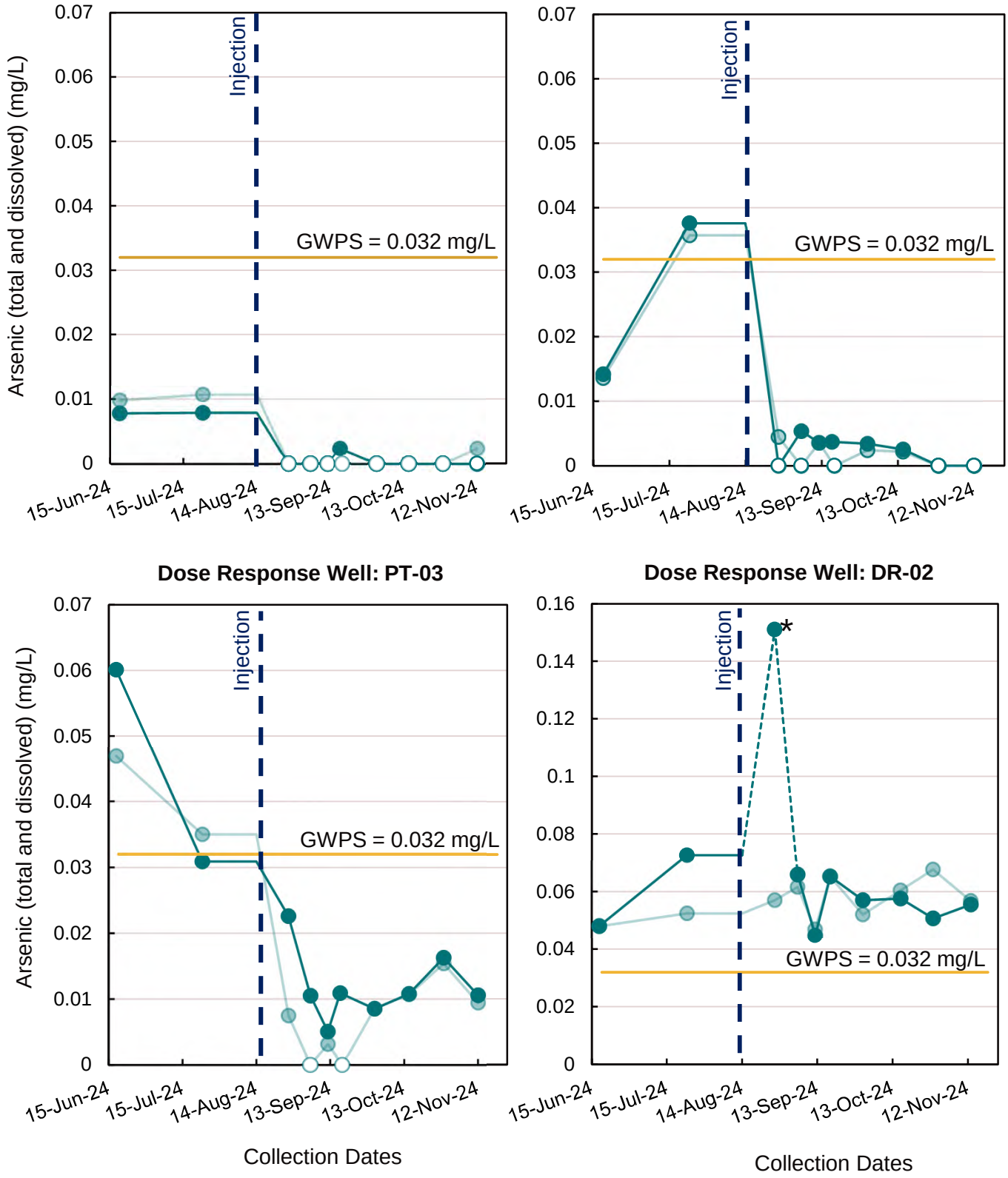
Analyte	Groundwater Protection Standard (GWPS)	Unit	Detection Monitoring Well MCM-06							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	305	NA	NA	321	NA	284	NA	310
Total Boron	--	mg/L	0.618	0.751	0.745	0.759	0.679	0.669	0.729	0.770
Total Calcium	--	mg/L	129	NA	134	136	NA	169	NA	201
Dissolved Calcium	--	mg/L	140	NA	NA	145	NA	171	NA	198
Chloride	--	mg/L	3,290	3,250	3,240	3,080	3,370	3,600	3,690	4,040
Total Magnesium	--	mg/L	233	NA	NA	231	NA	290	NA	333
Dissolved Magnesium	--	mg/L	238	NA	NA	250	NA	318	NA	336
Total Manganese	--	mg/L	0.145	NA	NA	0.145	NA	0.186	NA	0.239
Dissolved Manganese	--	mg/L	0.164	NA	NA	0.152	NA	0.194	NA	0.238
Total Potassium	--	mg/L	71.2	NA	NA	76.0	NA	85.3	NA	98.7
Dissolved Potassium	--	mg/L	76.9	NA	NA	86.3	NA	86.0	NA	96.4
Total Sodium	--	mg/L	1,800	NA	NA	1,660	NA	1,890	NA	2,090
Dissolved Sodium	--	mg/L	1,560	NA	NA	1,740	NA	1,980	NA	2,150
Total Dissolved Solids	--	mg/L	5,380	NA	5,340	6,140	NA	6,860	NA	6,250
Field Parameters										
Ferrous (II) Iron	--	mg/L	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Dissolved Oxygen	--	mg/L	0.01	0.06	0.01	-0.02	0.00	0.00	0.00	-0.01
Oxidation Reduction Potential	--	mV	-373.70	-335.43	-254.55	-376.80	-351.54	-230.02	-363.23	-338.91
pH	--	SU	7.12	7.19	7.20	7.19	7.05	7.05	7.07	7.01
Specific Conductance	--	µS/cm	10186.70	8954.69	10135.21	10488.85	11330.38	12020.96	12076.24	12908.05
Temperature	--	°C	24.69	24.32	23.85	25.61	25.58	24.31	23.63	25.12
Turbidity	--	NTU	0.96	0.15	0.27	0.09	0.06	0.47	0.24	0.26
Arsenic Speciation										
As(III)	--	µg/L	0.92 J	NA	NA	0.865 J	NA	0.837 J	NA	0.942 J
As(V)	--	µg/L	≤ 2.00	NA	NA	≤ 2.00	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 1.00	NA	NA	≤ 1.00	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.800	NA	NA	≤ 0.800	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	134.0	NA	NA	146.0	NA	143.0	NA	163.0

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:
1. Analytical methods are provided in Table 1.
2. Negative dissolved oxygen values are assumed to be zero.
3. "Unknown arsenic species" is the total estimated concentration of any unidentified arsenic-containing species. Previous analytical data evaluating the "Unknown arsenic species" results have demonstrated that these species are thioarsenic species (Arcadis 2024a).
4. The evaluation of 40 CFR Part 257 Appendix IV constituents excludes radium.
5. “J” qualifiers are applied by the laboratory when the reported concentration is above the method detection limit, but below the laboratory reporting limit.

Abbreviations:
< = not detected at or above the laboratory method detection limit.
As(III) = arsenite
As(V) = arsenate
°C = degrees Celsius
$CaCO_3$ = calcium carbonate
H = sample exceeded the specified holding time
J = estimated value (see Note 5)
µg/L = microgram per liter
mg/L = milligram per liter
mV = millivolt
NTU = nephelometric turbidity unit
NA = not analyzed
S.U. = standard units
µS/cm = microSiemen per centimeter
-- = no Groundwater Protection Standard (GWPS) assigned to constituent
‰ = per mil
$\delta^2H\ H_2O$ = delta notation measurement of stable hydrogen isotope concentrations. Results are compared to a known standard (δ^2H_s/δ^1H_s) by the following equation: $\delta^2H\ H_2O = ([(\delta^2H/\delta^1H)\div(\delta^2H_s/\delta^1H_s)]-1)x1000$.
Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

Figures



Notes:
1. Detects are plotted with a full circle. Non-detects are plotted with an open circle.
2. The method detection limit is used for non-detects.
3. The GWPS for arsenic is plotted in yellow.
* Particulates observed in water likely affected total arsenic result.

Abbreviations:
GWPS – groundwater protection standard
mg/L – milligrams per liter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

TOTAL AND DISSOLVED ARSENIC:
INJECTION AND DOSE RESPONSE WELLS

ARCADIS

FIGURE
1

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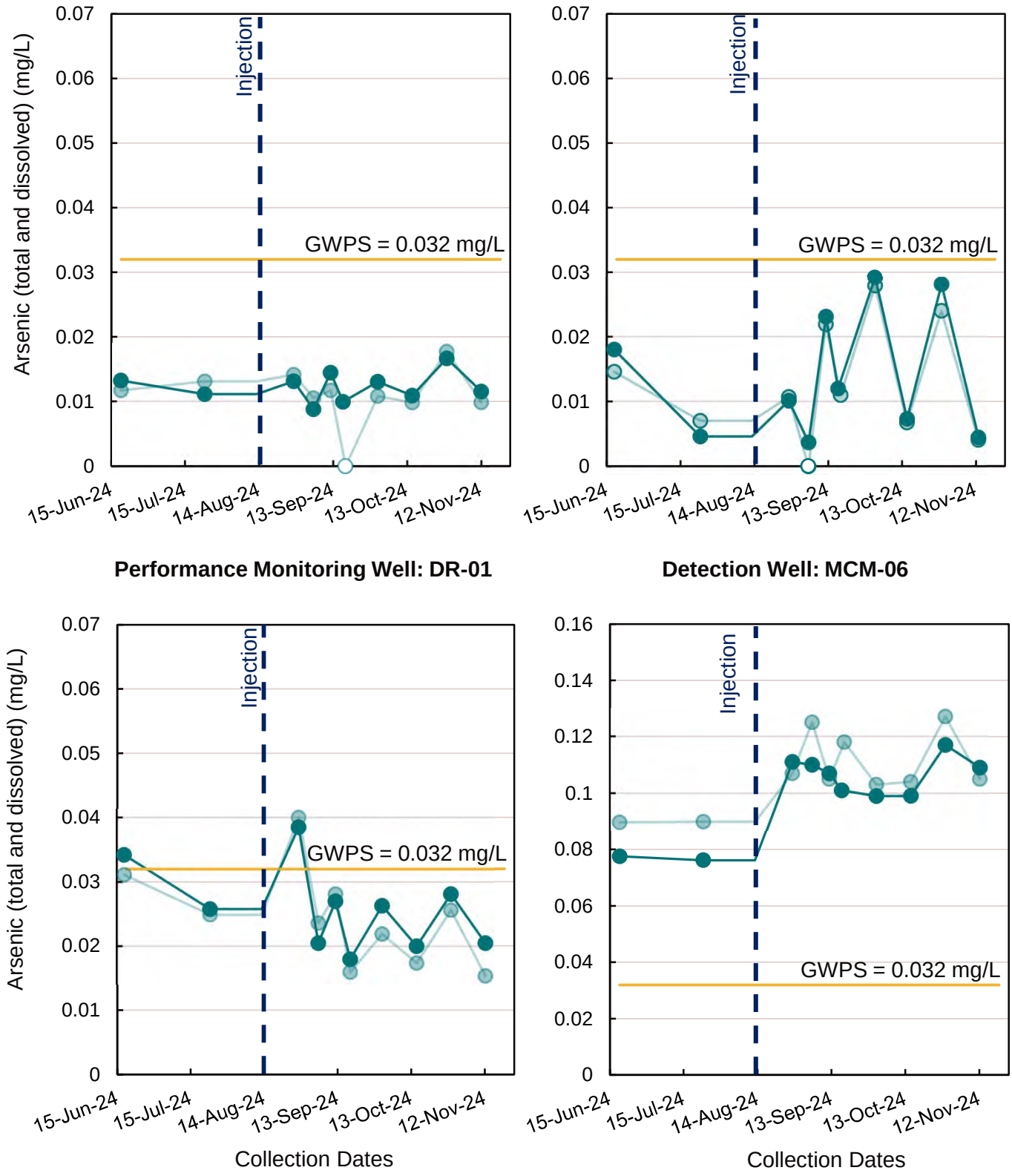

Legend:

- Total Arsenic
- Dissolved Arsenic

Notes:

1. Detects are plotted with a full circle. Non-detects are plotted with an open circle.
2. The method detection limit is used for non-detects.
3. The GWPS for arsenic is plotted in yellow.

Abbreviations:

GWPS – groundwater protection standard
mg/L – milligrams per liter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

TOTAL AND DISSOLVED ARSENIC: PERFORMANCE MONITORING AND DETECTION WELLS

ARCADIS

FIGURE
2

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Appendices

Appendix A

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Georgia Power

Pilot Study Post-Injection Event Report

Pilot Test No. UPT000071

Plant McManus Former Ash Pond 1 (AP-1)

September 27, 2024

Pilot Study Post-Injection Event Report

Plant McManus Former Ash Pond 1 (AP-1)

September 27, 2024

Prepared By:
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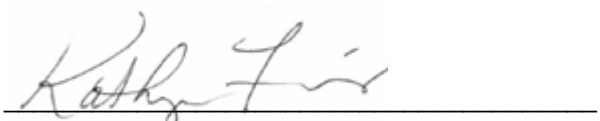
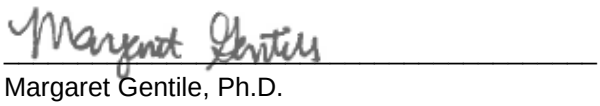
Prepared For:
Georgia Power Company
Brunswick, Georgia
Glynn County

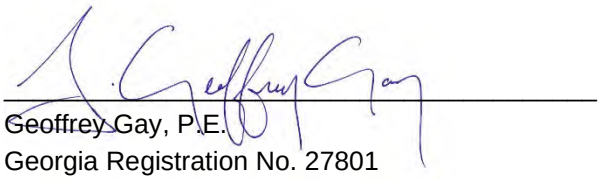
Our Ref:
30180421



Kathryn Farris, M.Sc.
Environmental Engineer



Margaret Gentile, Ph.D.
Technical Expert



Geoffrey Gay, P.E.
Georgia Registration No. 27801
Technical Expert, Vice President

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Appendix A. GA EPD Approvals

Appendix B. Well Installation Report

Appendix C. Baseline Analytical Laboratory Results and Field Sampling Forms

Appendix D. Injection Field Forms

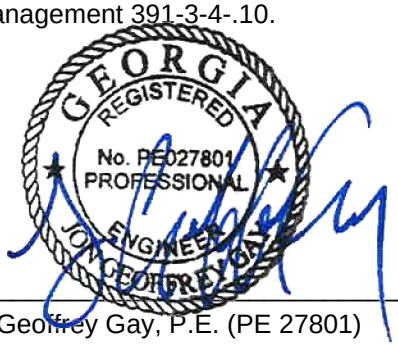
Appendix E. Field Parameter Data

Acronyms and Abbreviations

AP-1	Plant McManus Former Ash Pond 1
Arcadis	Arcadis U.S., Inc.
$CaCO_3$	calcium carbonate
CCR	coal combustion residual
Fe	iron
ferrous chloride	ferrous chloride tetrahydrate
FeS	mackinawite
FeS_2	pyrite
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
g/L	grams per liter
gpm	gallon per minute
GWPS	Groundwater Protection Standard
Injection Work Plan	MCM-06 Pilot Study Work Plan
mg/L	milligram per liter
NELAP	National Environmental Laboratory Accreditation Program
ORP	oxidation-reduction potential
psi	pound per square inch
report	Pilot Study Post-Injection Event Report
site	Georgia Power Plant McManus former Ash Pond 1
SSL	statistically significant level
S.U.	standard units
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is, “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.



09-27-2024

J. Geoffrey Gay, P.E. (PE 27801) — Date

Technical Expert (Eng.), Vice President

1 Introduction

Arsenic is present in groundwater at statistically significant levels (SSLs) above the Groundwater Protection Standard (GWPS) of 0.032 milligrams per liter (mg/L) in detection monitoring well MCM-06 at the Georgia Power Plant McManus former Ash Pond 1 (AP-1; the site). In situ injections (ISI) were proposed as the corrective measure for the arsenic SSL in the Draft Remedy Selection Report (Arcadis 2024a) for the site submitted on February 28, 2023. On February 16, 2024, the Georgia Environmental Protection Division (GA EPD) concurred with the initiation of pilot studies for ISI to facilitate further remedial design and a copy of the concurrence letter is provided in **Appendix A**. Georgia Power submitted the MCM-06 Pilot Study Work Plan with an application to conduct an ISI pilot study under the Underground Injection Control (UIC) Program on April 30, 2024 to GA EPD (Injection Work Plan; Arcadis 2024b; GEOS ID 836675). The Watershed Protection Branch deemed the injections acceptable under the UIC program in a letter dated June 26, 2024, included in **Appendix A**. The Land Protection Branch approved the initiation of pilot studies based on review of the work plan in a letter dated August 2, 2024, included in **Appendix A**.

This report provides a summary of ISI pilot study work completed at the site between June 1 and August 20, 2024, including pilot study well installation, baseline sampling activities, and injection activities. Pilot study injections and associated activities detailed herein were conducted under the direction of a qualified groundwater scientist. The work was completed in accordance with the MCM-06 Pilot Study Work Plan (Arcadis 2024b).

2 Background

2.1 Site Description

Plant McManus is an electrical power generation plant located on Crispen Island in Glynn County, near Brunswick, Georgia (**Figure 1**). The physical address of the plant is 1 Crispen Island Drive, Brunswick, Georgia 31523. The plant is separated from the mainland to the northeast by tidal marsh and bound on the west and southwest by the Turtle River.

The plant was originally constructed in 1952 and consisted of two boilers and nine diesel-fired combustion turbines. During operation of the coal-fired units from 1959 until 1972, coal combustion residual (CCR) was disposed in an approximately 80-acre surface impoundment (i.e., AP-1) on the Plant McManus property northeast of the plant.

AP-1 was formed by the construction of a dike from the northeast corner of Crispen Island to the mainland. Closure-related construction activities at AP-1 consisted of closure by removal and included the removal of all visible CCR within the surface impoundment, as well as removal of an additional 6 inches or more of soil below the limits of ash. Closure-related construction activities ended in 2019, and the final CCR removal certification report was submitted in November 2019 (Arcadis 2019). GA EPD acknowledged the report and removal activities within the identified boundaries of AP-1 in a letter dated January 10, 2020 (GA EPD 2020). Closure Permit No. 063-030D(CCR) was issued by GA EPD on June 18, 2021 (GA EPD 2021). Post-removal monitoring is detailed in the GA EPD-approved Groundwater Monitoring Plan (Resolute 2021).

2.2 Pilot Study Area and Historical Groundwater Monitoring

Groundwater monitoring of the surficial aquifer has been performed at AP-1 since 2016 in accordance with the United States Environmental Protection Agency (USEPA) CCR Rule (40 Code of Federal Regulations 257 Subpart D). The groundwater monitoring network consists of detection wells and an assessment well used to monitor groundwater passing the waste boundary of AP-1 within the uppermost aquifer (**Figure 2**). An onsite network of piezometers is used to gauge water levels to define groundwater flow direction and gradients.

An arsenic SSL was identified at detection monitoring well MCM-06 along the northern dike boundary of AP-1 as part of the assessment monitoring program. This SSL has been horizontally and vertically delineated to levels below the GWPS.

3 Fieldwork Summary

Fieldwork activities were conducted between June 1 and August 20, 2024, as summarized in the following sections. Well information is provided in **Table 1**, **Figure 2**, and **Appendix B**. Baseline analytical results are provided in **Table 2** and **Appendix C**. Field information and injection volumes are provided in **Table 3** and **Appendix D**.

A summary of the pilot study objectives, existing geochemical conditions, and reagent selection and removal mechanisms was provided in the Pilot Study Work Plan (Arcadis 2024b).

3.1 Well Installation

One injection well (INW-01) and one dose response well (DR-03) were installed in 2024 for this pilot study and screened at similar depth and lithology to detection monitoring well MCM-06 and in general accordance with the Groundwater Monitoring Plan (Resolute 2021). Exceptions to the design presented in the Groundwater Monitoring Plan are associated with the purpose of the wells (injection and dose response monitoring) in support of the approved Injection Work Plan (Arcadis 2024b). The well locations are shown on **Figure 2** and construction details are provided in **Table 1**.

Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. The boreholes were advanced using rotosonic drilling techniques with continuous core collection and a Terra Sonic compact crawler size track mounted rig. A copy of the Well Installation Report detailing the design, installation, and development of these wells is included in **Appendix B**.

3.2 Baseline Characterization

Prior to injection, baseline groundwater sampling was completed and evaluated along with historical groundwater sample results from the wells previously installed within the MCM-06 area. Groundwater samples and water quality field parameters (i.e., pH, conductivity, dissolved oxygen, temperature, and ORP) were collected using low-flow sampling procedures in accordance with the Groundwater Monitoring Plan (Resolute 2021) and Injection Work Plan (Arcadis 2024b). Samples were submitted for analysis of the following:

- Total and dissolved metals (Appendix IV, boron, iron, manganese, calcium, magnesium, sodium, potassium) (Method 6020B);
- Mercury (Method 7470);
- Sulfide (Method SM 4500);
- Sulfate (Method USEPA 300.0);
- Alkalinity (Method SM 2320B);
- Chloride (Method SM 4500);
- Total dissolved solids (TDS; Method SM 2540);
- Deuterium (Isotope Ratio Mass Spectrometry); and
- Arsenic Speciation.

Groundwater samples were placed in ice-packed coolers and submitted to GEL Laboratories LLC for analysis, except for deuterium, arsenic speciation, and sulfide, which were evaluated by Isotope Tracer Technologies, Brook Applied Laboratories, and Eurofins, respectively. GEL Laboratories LLC and Eurofins are accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintain NELAP certifications for the constituents and geochemical parameters analyzed for this project.

The results for the June and July baseline sampling events are presented in **Table 2**. The analytical laboratory results and field sampling and equipment calibration forms are provided in **Appendix C**.

3.3 Injection

Injection activities were performed between August 13 and 20, 2024 by Cascade Drilling, Inc. with technical supervision conducted by Arcadis.

3.3.1 Tank and Wellhead Assembly and Testing

Injection solution was batch mixed in and injected from a 550-gallon tank, located within secondary containment on top of an injection trailer to elevate the tank and improve injection under gravity feeding conditions. The bottom of the tank was approximately 3 feet above ground surface. Piping from the outlet of the tank was constructed with valves to allow for the tank to gravity feed or for the injection line to be pressurized with a pump, if needed. The piping was connected to the wellhead assembly via a 1-inch diameter rubber hose with camlock connections.

The wellhead assembly was constructed with a meter run and a standpipe. The meter run was equipped with a flow control valve, a 1/2-inch digital flow meter capable of sub-gallon per minute accuracy, straight piping before and after the flow meter to minimize turbulence, and a 0 to 10 pound per square inch (psi) pressure gauge. The wellhead was fitted with a separate standpipe taller than the highest point of the mixing tank, approximately 5 feet tall to allow for release of air in the piping and casing as injections are started and was valved at the top to be closed after the air is released.

Prior to injecting the solution, approximately 50 gallons of potable water were injected to test the system for leaks. Once the system was confirmed to be free from leaks, injection of the ferrous chloride solution commenced.

3.3.2 Reagent Mixing

The injection solution consisted of a mixture of ferrous chloride, tracer (deuterated water), and potable water from an onsite source designated in the Injection Work Plan (Arcadis 2024b). Ferrous chloride was shipped to the site as a solid from ProChem Inc. A solution of 0.2% weight for weight iron (Fe) and 0.037% tracer was prepared and introduced into the injection well. Solution volume and reagent amounts by batch and measured solution field parameters are provided in the Injection Solution Log in **Appendix D**. Sodium bicarbonate was available onsite to adjust the pH prior to injection but was not needed given that the as-mixed solution pH was between 5.10 and 6.00. Mixing was achieved by circulating water with a pump equipped with a stinger to limit oxygen exposure to the injection solution, which can result in solution oxidation and precipitate formation.

3.3.3 Injection

To begin injection, the valves from the tank through the wellhead were opened, allowing the injection solution from the tank to gravity feed into injection well INW-01. Following the first day of injection activities, the injection batch size was reduced from 500 gallons to 250 gallons to minimize ferrous chloride oxidation and precipitate formation that was observed in the first 500 gallon batch. The reduction to a 250-gallon batch worked well to reduce the amount of precipitation. At the end of each day, a 50-gallon batch of potable water was added to the injection well to clear the injection well of reagent.

Injection solution flow rate, cumulative injected volume, and observed wellhead pressure were monitored and recorded once every hour for the duration of the injection. Field forms are included in the Injection Field Test Log in **Appendix D**. A summary of daily injected volumes is included in **Table 3**. The daily maximum injection volume was below the value included in the Pilot Test Notification Form (3,000 gallons per day). Water levels in nearby performance monitoring wells were measured throughout injection activities and are provided in the Dose Response Monitoring Logs in **Appendix D**.

A total of 4,329 gallons of injection solution were introduced at INW-01 over seven days of injection. Injection flow rate over this time decreased from an initial maximum flow rate of 5.5 gallons per minute (gpm) to a final flow rate of 1.1 gpm (**Exhibit 1**). Wellhead pressure remained below 1 psi for the duration of the injection, which was well below the limit of 5 psi presented in the Pilot Test Notification Form. The decrease in flowrate over time was likely caused by precipitates clogging the well screen and filter pack. The flowrates and pressures achieved the objective of determining these design parameters and demonstrated injections are readily implementable at the site. Despite the decrease in flowrate, a sufficient volume was injected to observe arrival at dose response wells and for the determination of additional design parameters, as discussed in Section 4.3.4 and 5.2.

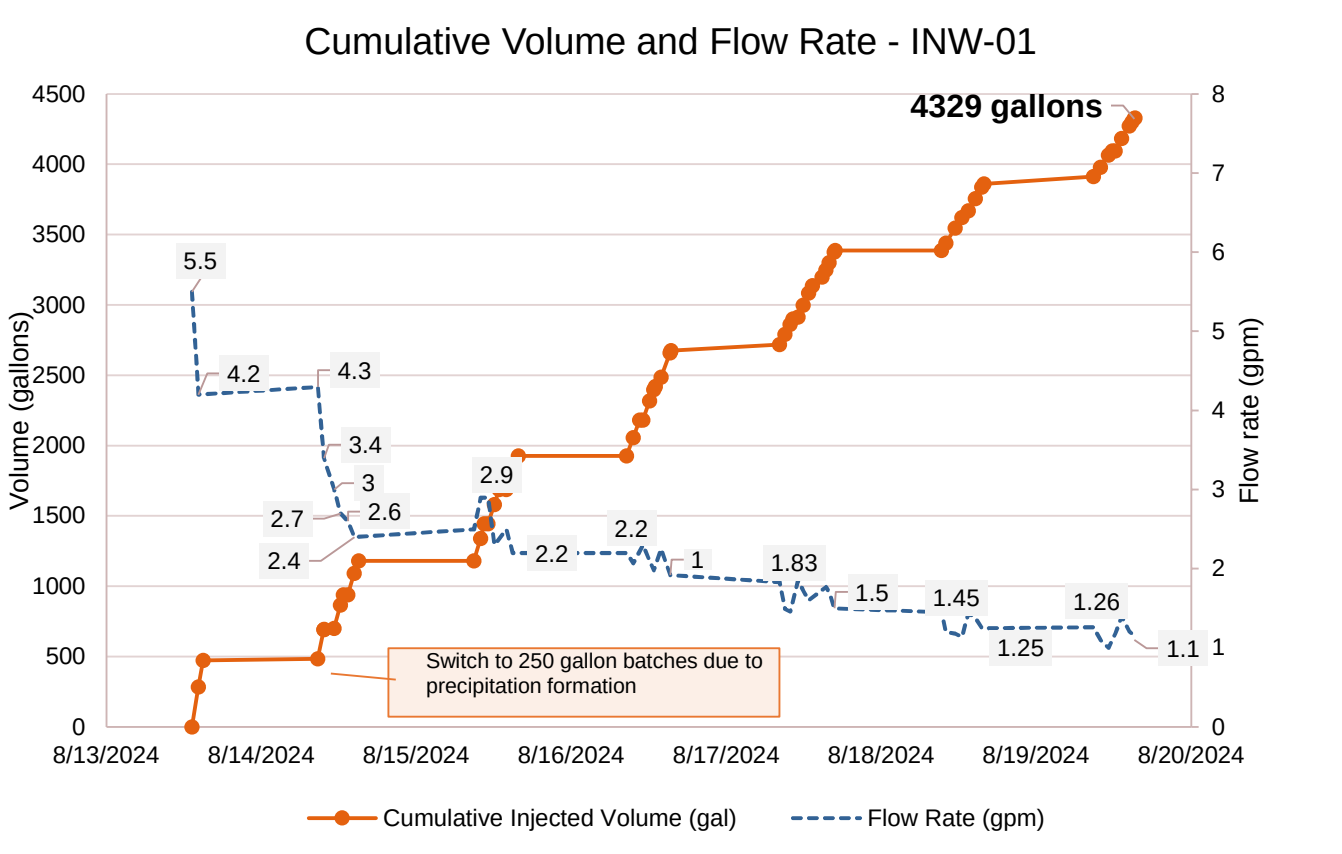


Exhibit 1. Cumulative Volume and Injection Flow Rate

3.3.4 Dose Response Monitoring

Real-time sampling and monitoring was conducted during injections at dose-response wells DR-02, DR-03, and PT-03 to achieve the following objectives:

- Confirm distribution of injected reagent solution and reagent.
- Develop breakthrough curves of injection solution to evaluate mobile porosity for full-scale design.

Field parameters (i.e., pH, dissolved oxygen, turbidity, ORP, specific conductivity, and temperature) were recorded every 5 feet across the screen interval of each dose response monitoring well (at 2.5 feet, 7.5 feet, and 12.5 feet for 15-foot screens). In addition, multi-parameter sondes were placed in the dose-response wells in the middle of the well screen (7.5 feet below the top of the well screen). Plots of the data collected from the sondes is included in **Appendix E**. These data, in conjunction with the deuterium analytical data and iron data, will be used to evaluate injection solution breakthrough and the injection volume-distribution radius relationship at the site, and to determine the design parameter mobile porosity. The data will also be evaluated to understand tidal influences on the injection distribution and effectiveness. The data analysis will be provided in the comprehensive pilot study technical memorandum at completion of the study.

Samples were collected from each dose-response location at least every 10-percent of target volume and from other performance monitoring wells at least once a day during injections. Sampling consisted of:

- Recording depth to water before purging.
- Performing a line purge, accounting for current depth to water and volume in sample tubing.
- Collecting a laboratory sample for iron and deuterium analysis. Arsenic was also evaluated for the first and final samples collected during the injection dose response monitoring program. Field parameters and a ferrous iron Hach kit analysis were also completed at time of laboratory sample collection and logged in the Dose Response Monitoring Logs provided in **Appendix D**. A subset of these were submitted for analysis based on field parameter readings.
- Visual observations were also recorded during sample collection.

4 Results

Results of the injection study are summarized in the following sections.

4.1 Baseline Sampling

Results from baseline sampling events are summarized in Table 2 and were generally consistent with previous results.

4.2 Dose Response Monitoring

As presented in Section 3.3.4, dose response monitoring was performed to confirm distribution of injected reagent solution and reagent and develop breakthrough curves of injection solution to evaluate mobile porosity for full-scale design. This section primarily discusses the visual observations recorded during sampling and the field measurements of ferrous iron, both of which indicate arrival of injected water and reagent at dose response wells during the injections. Field parameter data (i.e., specific conductivity, pH, ORP, and water depth) included in **Appendix E** and will be discussed in further detail in the next report in conjunction with upcoming analytical data results.

4.2.1 Visual Observations

Visual observations were recorded during sampling. A fine black precipitate was observed, first at the closest dose response monitoring well DR-03, then the next closest dose response monitoring well PT-03, and finally to a lesser extent at the furthest dose response monitoring well DR-02. **Figure 3** shows the sample bottles collected over time and with increasing injection volume at each of these locations. The appearance of the black precipitate can be seen in the arrays of sample bottles. The precipitate was initially black and, in some cases, turned rust colored following exposure to oxygen. The precipitate was collected and has been submitted for analysis of energy dispersive spectrometry and scanning electron microscopy for confirmation.

4.2.2 Field Measurements of Ferrous Iron

Ferrous iron samples were collected and analyzed with a Hach kit in the field at the same time as laboratory sample collection and the concentration measured with Hach kits were recorded in the Dose Response Monitoring Logs provided in **Appendix D**. Samples were collected from all three dose response wells (DR-02,

DR-03, and PT-03). Ferrous iron in DR-03 and PT-03 steadily increased over the course of the injection event. DR-03 showed the strongest response with concentrations increasing to 7.5 mg/L at the end of the injection of 4,329 gallons. Ferrous iron in PT-03 increased to 2.5 mg/L after the injection of the same volume, though there were two spikes in the middle of the injection event measuring 6 and 7 mg/L (at 2,675 and 3,386 gallons, respectively). Ferrous iron concentrations increased to 0.5 mg/L in groundwater at DR-02 after the injection of 4,329 gallons. Ferrous iron concentrations will be considered in conjunction with field parameters and laboratory analytical data to provide a comprehensive arrival analysis in the pilot study technical memorandum prepared at the completion of the study.

5 Post Injection Monitoring and Reporting

The purpose of post-injection performance monitoring is to evaluate the efficacy of the injection for arsenic removal from groundwater and the longevity of the performance of the injections and potential downgradient effects over an extended period. With iron injections, the primary indicators of effectiveness and longevity are:

- Decreasing arsenic concentrations to below the GWPS at dose-response wells;
- Measurable concentrations of iron in solution at dose-response wells over time (to verify field measurements); and
- Reduction in sulfide concentrations in wells.

In addition, dose response and performance monitoring wells will be monitored to evaluate:

- Arsenic treatment outside of the influence of injections at performance monitoring wells; and
- Any substantial increases in Appendix IV parameters greater than the GWPS due to injections at dose response and performance monitoring wells.

Post-injection performance monitoring was initiated on August 26, 2024, and will continue weekly for the first month, biweekly for the next two months, and at 6 months and 9 months at dose-response wells DR-02, DR-03, PT-03, and performance monitoring wells PT-01, PT-02, DR-01, and detection monitoring well MCM-06.

Updates concerning the pilot study results will be reported to the GA EPD Solid Waste Management Program as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting. Links to these reports will be emailed to the GA EPD Wastewater Regulatory Program. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study as a standalone report.

6 References

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United States. Code of Federal Regulations, Title 40, vol. 24, sec. 257, subpart D.

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Tables

Table 1
Pilot Study Well Network Construction Details
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Well ID	Well Purpose	Installation Status	Northing[a] (feet NAD 83)	Easting[a] (feet NAD 83)	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation[b] (feet NAVD 88)	Total Depth (feet BTOC)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screened Length (feet)
INW-01	Injection Well	installed for pilot	444418.01	850792.41	7.18	7.50	31.05	-8.45	-23.5	15
DR-02	Dose Response Well	existing location	444411.68	850784.46	7.49	7.90	30.59	-8.10	-23.10	15
PT-03		existing location	444418.92	850785.95	7.45	7.93	24.72	-7.27	-17.27	10
DR-03		installed for pilot	444422.02	850792.49	7.40	7.65	31.50	-8.25	-23.25	15
PT-01	Performance Monitoring Well	existing location	444408.70	850768.53	7.49	7.82	24.67	-7.18	-17.18	10
PT-02		existing location	444414.19	850777.91	7.64	7.91	24.73	-6.59	-16.59	10
DR-01		existing location	444407.62	850777.93	7.58	7.86	30.72	-8.14	-23.14	15
MCM-06		existing location	444407.22	850782.11	10.15	7.87	27.20	-6.27	-16.27	10

Notes:
[a] Measured in Georgia State Plane - North American Datum of 1983 (NAD 83) East Zone.
[b] Ground surface was measured at the mag nail in the concrete pad.
BTOC = below top of casing
NAVD 88 = North American Vertical Datum of 1988

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Injection Well		Dose Response Wells					
			INW-01	INW-01	DR-02	DR-02	PT-03	PT-03	DR-03	DR-03
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Antimony	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Antimony, Dissolved	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Arsenic	mg/L	0.0078	0.00789 J	0.0482	0.0726	0.0601	0.0309	0.0142	0.0376
	Arsenic, Dissolved	mg/L	0.0098	0.0107	0.0481	0.0525	0.0469	0.0350	0.0136	0.0357
	Barium	mg/L	0.2820	NA	0.0703	NA	0.3560	NA	0.0229	NA
	Barium, Dissolved	mg/L	0.3040	NA	0.0752	NA	0.3510	NA	0.0231	NA
	Beryllium	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Beryllium, Dissolved	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Boron	mg/L	0.5190	NA	0.8300	NA	0.5720	NA	0.8780	NA
	Boron, Dissolved	mg/L	0.5180	NA	0.8080	NA	0.5960	NA	0.8800	NA
	Cadmium	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cadmium, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Calcium	mg/L	234	250	88.3	102	156	186	57.9	64
	Calcium, Dissolved	mg/L	222	239	87.7	105	165	181	57.1	63.9
	Chromium	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
	Chromium, Dissolved	mg/L	<0.00300	NA	<0.00300	NA	0.0173	NA	<0.00300	NA
	Cobalt	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cobalt, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Iron	mg/L	0.709	2.67	0.967	3.99	1.71	0.927	0.116	0.252
	Iron, Dissolved	mg/L	0.553	2.04	0.237	0.163	0.925	0.833	0.0657 J	0.106
	Lead	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lead, Dissolved	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lithium	mg/L	0.0258	NA	0.0400	NA	0.0256	NA	0.0402	NA
	Lithium, Dissolved	mg/L	0.0261	NA	0.0408	NA	0.0256	NA	0.0400	NA
	Magnesium	mg/L	314	330	144	169	218	270	96.9	108
	Magnesium, Dissolved	mg/L	288	312.0	143	174	234	266	95.7	108
	Manganese	mg/L	0.238	0.184	0.084	0.11	0.106	0.121	0.147	0.112
	Manganese, Dissolved	mg/L	0.244	0.2	0.084	0.1	0.105	0.1	0.147	0.1
	Mercury	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
	Mercury, Dissolved	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Injection Well		Dose Response Wells					
			INW-01	INW-01	DR-02	DR-02	PT-03	PT-03	DR-03	DR-03
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Molybdenum	mg/L	0.000475 J	NA	0.000792 J	NA	0.000706 J	NA	0.000468 J	NA
	Molybdenum, Dissolved	mg/L	<0.000200	NA	0.000505 J	NA	0.00062 J	NA	0.000306 J	NA
	Potassium	mg/L	83.6	90.4	59.2	62.7	64.0	78.7	50.7	53.3
	Potassium, Dissolved	mg/L	79.9	85.4	57.8	64.4	67.4	77.0	50.2	51.9
	Selenium	mg/L	0.00158 J	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Selenium, Dissolved	mg/L	0.00205 J	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Sodium	mg/L	2,390	2,620	1,490	1,430	1,750	1,990	1,260	1,220
	Sodium, Dissolved	mg/L	2,220	2,550	1,440	1,550	1,810	2,020	1,260	1,270
	Thallium	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
	Thallium, Dissolved	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
Field Parameters	Depth to Water	ft	6.20	4.16	5.76	5.19	5.92	4.24	6.35	4.89
	Turbidity	NTU	0.35	1.32	0.27	0.41	2.43	2.55	1.93	1.58
	Dissolved Oxygen	mg/L	0.053	0.079	0.043	0.276	0.035	0.091	0.010	0.068
	Specific Conductivity	µS/cm	14,231	15,302	8,670	9,036	11,243	12,086	7,145	7,104
	pH	S.U.	6.66	6.64	7.21	7.20	6.47	6.50	7.53	7.50
	ORP	mV	-194.1	-265.0	-202.0	-252.6	-58.2	-264.1	-271.6	-328.7
	Temperature	°C	25.6	26.4	24.6	24.4	24.8	25.4	25.3	28.7
Geochemical Parameters	Total alkalinity as $CaCO_3$	mg/L	231	203	318	294	215	192	343	334
	Bicarbonate alkalinity as $CaCO_3$	mg/L	231	203	318	294	215	192	339	321
	Carbonate alkalinity as $CaCO_3$	mg/L	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	4.0	13.0
	Chloride	mg/L	4,710	4,930	2,400	2,840	3,390	3,970	1,880	2,090
	Fluoride	mg/L	<0.165	NA	0.488 J	NA	0.287 J	NA	0.366 J	NA
	Sulfate	mg/L	556	657	320	285	425	493	268	242
	Sulfide	mg/L	13	14	26	33	12	18	15	31
	Total Dissolved Solids	mg/L	7,990	9,320	4,740	4,990	6,060	6,880	4,010	3,860
	$\delta^{18}O$ H_2O	‰	1.33	NA	1.33	NA	1.57	NA	1.06	NA
	$\delta^{2}H$ H_2O	‰	8.7	NA	8.1	NA	9.9	NA	6.4	NA
Arsenic Speciation	As(III)	µg/L	<0.800 J	NA	<0.800 J	NA	4.20 J	NA	<0.800 J	NA
	As(V)	µg/L	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA
	Dimethylarsinic Acid	µg/L	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA
	Monomethylarsonic Acid	µg/L	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA
	Unknown Arsenic species	µg/L	2.76 J	NA	66.2 J	NA	81.0 J	NA	13.5 J	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Performance Monitoring Wells						Detection Monitoring Well	
			PT-01	PT-01	PT-02	PT-02	DR-01	DR-01	MCM-06	MCM-06
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Antimony	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Antimony, Dissolved	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Arsenic	mg/L	0.0132	0.0111	0.0180	0.00458 J	0.0342	0.0258	0.0776	0.0762
	Arsenic, Dissolved	mg/L	0.0117	0.0131	0.0146	0.00703 J	0.0311	0.0249	0.0897	0.0900
	Barium	mg/L	0.7250	NA	0.5170	NA	0.2580	NA	0.0528	NA
	Barium, Dissolved	mg/L	0.6710	NA	0.4980	NA	0.2410	NA	0.0560	NA
	Beryllium	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Beryllium, Dissolved	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Boron	mg/L	0.6570	NA	0.5390	NA	0.6370	NA	0.6450	NA
	Boron, Dissolved	mg/L	0.6650	NA	0.5540	NA	0.6430	NA	0.6760	NA
	Cadmium	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cadmium, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Calcium	mg/L	169	187	142	176	126	157	85.3	116
	Calcium, Dissolved	mg/L	170	181	151	176	129	160	87.9	114
	Chromium	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
	Chromium, Dissolved	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
	Cobalt	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cobalt, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Iron	mg/L	0.244	0.213	1.98	3.58	0.514	0.439	0.0721 J	0.0385 J
	Iron, Dissolved	mg/L	0.148	0.312	1.89	3.62	0.319	0.410	0.0661 J	0.146
	Lead	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lead, Dissolved	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lithium	mg/L	0.0237	NA	0.0191	NA	0.0358	NA	0.0391	NA
	Lithium, Dissolved	mg/L	0.0226	NA	0.0181	NA	0.0344	NA	0.0412	NA
	Magnesium	mg/L	228	267	207	262	210	270	150	207
	Magnesium, Dissolved	mg/L	231	260	219	257	216	277	154	207
	Manganese	mg/L	0.285	0.278	0.357	0.394	0.155	0.185	0.096	0.139
	Manganese, Dissolved	mg/L	0.265	0.3	0.339	0.4	0.142	0.2	0.102	0.1
	Mercury	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
	Mercury, Dissolved	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Performance Monitoring Wells						Detection Monitoring Well	
			PT-01	PT-01	PT-02	PT-02	DR-01	DR-01	MCM-06	MCM-06
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Molybdenum	mg/L	0.000619 J	NA	0.000531 J	NA	0.000624 J	NA	0.000894 J	NA
	Molybdenum, Dissolved	mg/L	0.000358 J	NA	0.000249 J	NA	0.000424 J	NA	0.000389 J	NA
	Potassium	mg/L	71.8	85.1	61.9	73.5	66.9	78.1	59.3	69.7
	Potassium, Dissolved	mg/L	72.1	78.9	63.7	71.3	67.8	78.7	61.4	70.0
	Selenium	mg/L	<0.00150	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Selenium, Dissolved	mg/L	<0.00150	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Sodium	mg/L	1,740	1,930	1,570	1,820	1,730	1,930	1,260	1,380
	Sodium, Dissolved	mg/L	1,720	1,900	1,660	1,860	1,740	2,060	1,250	1,430
	Thallium	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
	Thallium, Dissolved	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
Field Parameters	Depth to Water	ft	5.12	5.23	6.01	4.30	5.90	4.28	7.65	7.44
	Turbidity	NTU	0.29	0.17	0.36	0.86	0.12	0.21	0.04	0.07
	Dissolved Oxygen	mg/L	0.059	0.063	0.042	0.032	0.057	0.047	0.026	0.008
	Specific Conductivity	µS/cm	11,265	11,630	10,311	10,754	10,805	11,273	7,884	8,561
	pH	S.U.	6.61	6.74	6.47	6.45	6.82	6.87	7.12	7.08
	ORP	mV	-245.2	-291.3	-317.9	-232.0	-296.9	-313.6	-127.5	-353.3
	Temperature	°C	24.7	25.0	24.8	28.3	23.7	26.2	24.2	27.3
Geochemical Parameters	Total alkalinity as $CaCO_3$	mg/L	232	235	222	183	259	240	309	284
	Bicarbonate alkalinity as $CaCO_3$	mg/L	232	235	222	183	259	240	309	284
	Carbonate alkalinity as $CaCO_3$	mg/L	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725
	Chloride	mg/L	3,570	4,020	3,140	3,740	3,210	3,920	2,180	2,800
	Fluoride	mg/L	0.283 J	NA	0.289 J	NA	0.33 J	NA	0.439 J	NA
	Sulfate	mg/L	454	452	379	460	399	467	269	293
	Sulfide	mg/L	13	22	16 J	13	22	26	31	42
	Total Dissolved Solids	mg/L	6,380	6,730	5,610	6,490	5,980	7,200	4,360	4,960
	$\delta^{18}O$ H_2O	‰	1.49	NA	1.51	NA	1.52	NA	1.69	NA
	$\delta^{2}H$ H_2O	‰	9.5	NA	9.8	NA	9.3	NA	9.9	NA
Arsenic Speciation	As(III)	µg/L	<0.800 J	NA	<0.800 J	NA	1.36 J	NA	0.928 J	NA
	As(V)	µg/L	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA
	Dimethylarsinic Acid	µg/L	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA
	Monomethylarsonic Acid	µg/L	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA
	Unknown Arsenic species	µg/L	8.48 J	NA	19.7 J	NA	35.9 J	NA	121 J	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:

1. Lowflow sampling protocols were completed for baseline sampling. The last reading recorded prior to sampling at each well is reflected in this table.
2. Analytical methods include: total and dissolved metals (EPA 6020B, EPA 7470A for mercury), arsenic speciation (IC-ICP-CRC-MS), alkalinity (SM 2320B), sulfide (SM 4500-S2D), anions (EPA 300.0), total dissolved solids (SM2540C).
3. "Unknown arsenic species" is the total estimated concentration of any unidentified arsenic-containing species. Previous analytical data evaluating the "Unknown arsenic species" results have demonstrated that these species are thioarsenic species (Arcadis 2024a).
4. Arsenic speciation samples arrived at laboratory at a temperature of 7.5 °C, slightly greater than the recommended temperature (6 °C). Results are estimated.

Abbreviations:

< = not detected at or above method detection limit
As(III) = arsenite
As(V) = arsenate
°C = degrees Celsius
$CaCO_3$ = calcium carbonate
ft = feet
J = estimated value
mg/L = milligram per liter
mV = millivolt
NTU = nephelometric turbidity unit
NA = not analyzed
ORP = oxidation-reduction potential
S.U. = standard units
µS/cm = microSiemen per centimeter
‰ = per mil

$\delta^{18}O\ H_2O$ = delta notation measurement of stable oxygen isotope concentrations. Results are compared to a known standard ($\delta^{18}O_s/\delta^{16}O_s$) by the following equation: $\delta^{18}O\ H_2O = ([(\delta^{18}O/\delta^{16}O)\div(\delta^{18}O_s/\delta^{16}O_s)]-1)x1000$. Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

$\delta^{2}H\ H_2O$ = delta notation measurement of stable hydrogen isotope concentrations. Results are compared to a known standard ($\delta^{2}H_s/\delta^{1}H_s$) by the following equation: $\delta^{2}H\ H_2O = ([(\delta^{2}H/\delta^{1}H)\div(\delta^{2}H_s/\delta^{1}H_s)]-1)x1000$. Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

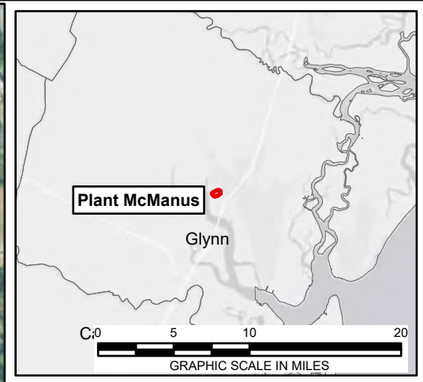
Table 3
Summary of Daily Injection Volumes
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Date	INW-01	
	Injection Solution (gallons)	Potable Water/Clean Wash (gallons)
8/13/2024	--	Initial Leak Test - 50
8/13/2024	472	50
8/14/2024	709	50
8/15/2024	746	50
8/16/2024	748	50
8/17/2024	711	50
8/18/2024	475	50
8/19/2024	468	50
Summary	**4,329**	**400**

Notes:

1. At the close of each day, 50 gallons of potable water were used to rinse the injection well to limit precipitate formation.

Figures



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- CCR PERMITTED BOUNDARY

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 650 1,300

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

LOCATION MAP

ARCADIS

FIGURE
1

LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

PILOT STUDY INJECTION AND PERFORMANCE MONITORING WELL LOCATIONS

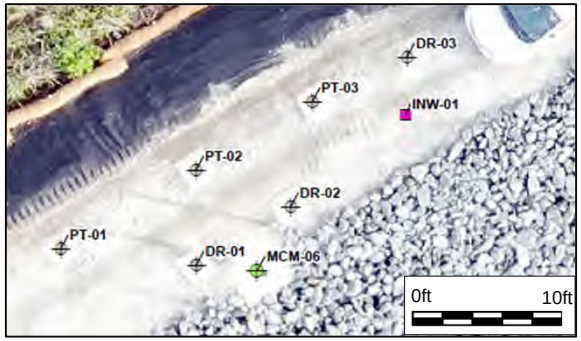
ARCADIS

FIGURE
2

DR-03

PT-03

DR-02



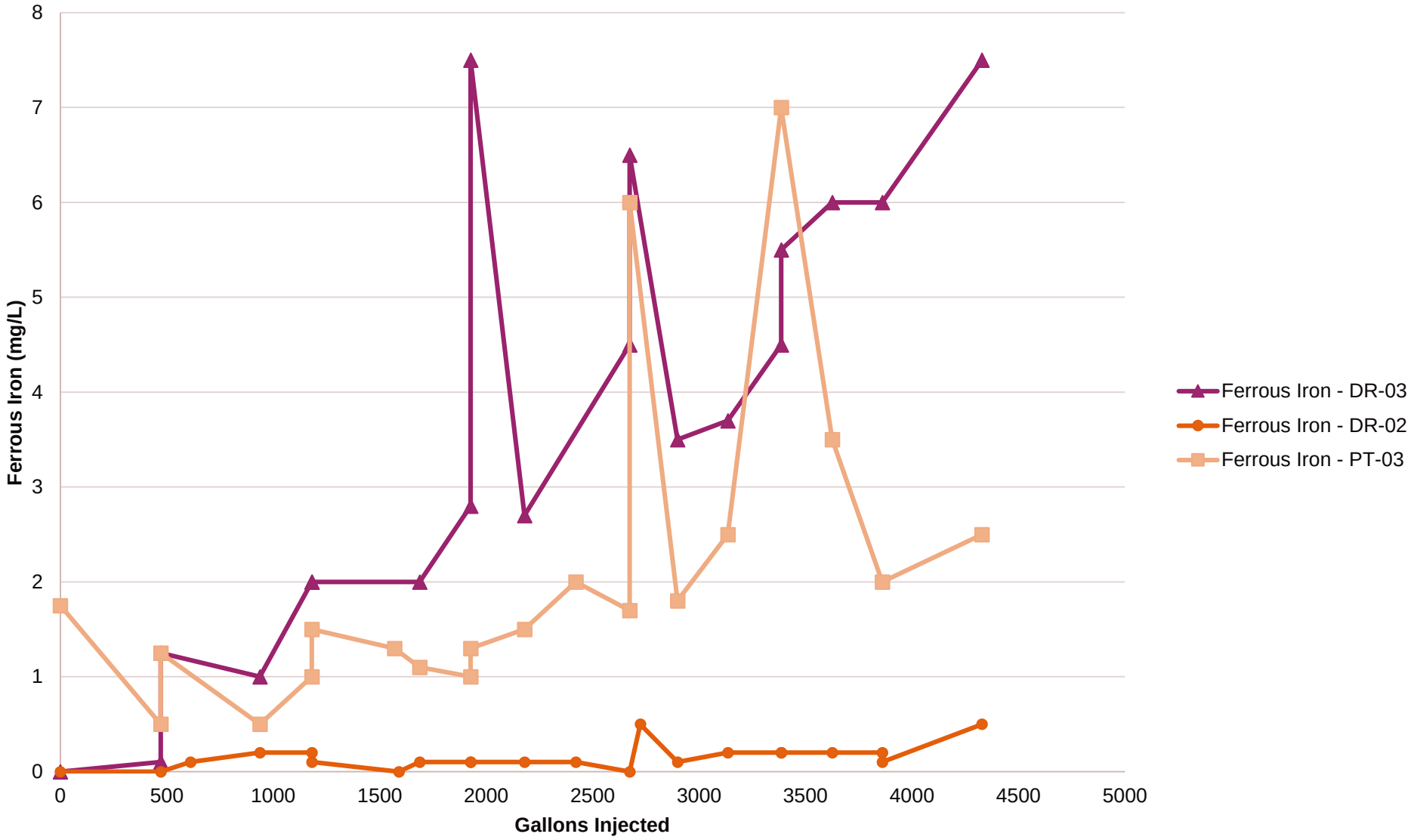
Precipitate observation

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

VISUAL OBSERVATIONS AT DOSE RESPONSE WELLS

ARCADIS

FIGURE
3



GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

FERROUS IRON CONCENTRATIONS AT DOSE RESPONSE WELLS

ARCADIS

FIGURE
4

Notes:
mg/L = milligrams per liter
Samples were collected from the screen mid-point

Appendix A

GA EPD Approvals

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Jeffrey W, Cown Director

Land Protection Branch
4244 International Parkway
Suite 104
Atlanta, Georgia 30354
404-362-2537

February 16, 2024

Jennifer McNelly
Vice President of Environmental Affairs
241 Ralph McGill Boulevard
Atlanta, GA 30308

SUBJECT: Georgia Power Company–Plant McManus AP-1
Permit No: 063-030D (CCR)
Assessment of Corrective Measures: Draft Remedy Selection Report: Pilot Study Initiation: Concurrence
GEOS Submittal: 739298

Dear Mr. McNelly:

The Georgia Environmental Protection Division (EPD) has reviewed the **draft** remedy selection report for Georgia Power Company's Plant McManus AP-1 submitted February 28, 2023. The draft remedy selection report provides an overview of conceptual site models to support the remediation of statistically significant levels of arsenic at MCM-06.

Based on EPD's review of the subject submittal as well as their most recent groundwater monitoring report, EPD concurs with the initiation of pilot studies for in-situ injection (ISI) at the subject facility to facilitate further remedy design. EPD's concurrence to conduct pilot studies is not an approval of a final remedy.

However, as discussed in the subject submittal, Georgia Power will provide pilot study workplans for EPD review prior to implementation. An Underground Injection Permit will also be required before implementation of the pilot study.

Please submit an updated milestone schedule with the pilot study work plan and include a progress report to assess groundwater quality performance. If deviations from the milestone schedule occur, an updated milestone schedule will be required.

If you have any questions regarding this letter, please contact Mark Wescott at mark.wescott@dnr.ga.gov or (470) 763-6344.

Sincerely,

Mark Wescott, P.G.
Geologist
Environmental Monitoring Unit
Solid Waste Management Program

Beverly Tipton
Manager
Environmental Monitoring Unit
Solid Waste Management Program

cc: Tim Earl, Mike Smiley, Tyler Boyles, David Gibbons, Lauren Petty, and Ben Hodges: Georgia Power by email
William Cook, Tammy Buchli, Beverly Tipton, Keith Stevens, and Mark Wescott: EPD

File: S:\Land\LANDDOCS\SW\CCR Applications\GP Plant McManus\AP-1)\EPD Correspondence\Groundwater Correspondence

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Jeffrey W. Cown, Director

Watershed Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1456, East Tower
Atlanta, Georgia 30334
404-463-1511

June 26, 2024

Mr. Scott Hendricks
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta, GA 30308

RE: Pilot Test Notification
Plant McManus AP-1
Pilot Test No. UPT000071
Glynn County, Satilla River Basin

Dear Mr. Hendricks:

The Environmental Protection Division (EPD) has received your Pilot Test Notification for Plant McManus AP-1 in Glynn County. The proposed injection activities as described in your Pilot Test Notification are acceptable to the Underground Injection Control (UIC) Program as a limited Pilot Test with a 90-day duration.

Please forward any reports resulting from the injections, such as those provided to other EPD Programs, to the UIC Program. Any reports may be provided electronically via email to UIC Coordinator Jeff Hopper at *jeff.hopper@dnr.ga.gov* or via mail to:

Environmental Protection Division
Underground Injection Control
2 MLK Jr. Drive
Suite 1470A East
Atlanta, Georgia 30334

If you have any comments or questions concerning this approval letter, please contact Kelli-Ann Schrage at 470-938-3351 or via email at *kelli-ann.schrage@dnr.ga.gov*.

Sincerely,

Kelli-Ann Sottile Schrage

Kelli-Ann Schrage, Manager
Industrial Permitting Unit

CC: Mr. Scott Hendricks, Georgia Power (ashendri@southernco.com)
Mr. Daniel Robinson, Georgia Power (drobinso@southernco.com)
Ms. Erika Fly, Georgia Power (ekyeager@southernco.com)
EPD Underground Injection Control Program – Jeff Hopper (jeff.hopper@dnr.ga.gov)
EPD Industrial Permitting Unit – Kelli-Ann Schrage (kelli-ann.schrage@dnr.ga.gov)

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Jeffrey W. Cown, Director

Land Protection Branch
4244 International Parkway
Suite 104
Atlanta, Georgia 30354
404-362-2537

August 2, 2024

Jennifer McNelly
Vice President of Environmental Affairs
241 Ralph McGill Boulevard
Atlanta, GA 30308

SUBJECT: Georgia Power Company–Plant McManus AP-1
Permit No: 063-030D (CCR)
MCM-06 Pilot Study Work Plan - Approved
Pilot Test No. UPT000071
GEOS Submittal: 836675

Dear Ms. McNelly:

The Georgia Environmental Protection Division (EPD) has reviewed the MCM-06 Pilot Study Workplan for Georgia Power Company's Plant McManus AP-1 submitted on April 30, 2024. This workplan describes planned injections necessary to inform corrective action design near monitoring well MCM-06, which has statistically significant levels (SSLs) of arsenic.

In a letter dated June 26, 2024, the EPD's Underground Injection Control Program approved your Pilot Test Notification under separate cover (Pilot Test No. UPT000071).

Based on EPD's review of the subject submittal as well as the most recent groundwater monitoring report, EPD concurs with the initiation of pilot studies for in-situ injection (ISI) at the subject facility to facilitate further remedy design. EPD's concurrence to conduct pilot studies is not an approval of a final remedy.

As discussed in the subject submittal, Georgia Power will provide remediation progress updates to EPD.

If deviations from the milestone schedule occur, an updated milestone schedule will be required.

If you have any questions regarding this letter, please contact Mark Wescott at mark.wescott@dnr.ga.gov or (470) 763-6344.
Sincerely,

Mark Wescott, P.G.
Geologist
Environmental Monitoring Unit
Solid Waste Management Program

Beverly Tipton
Manager
Environmental Monitoring Unit
Solid Waste Management Program

cc: Tim Earl, Mike Smiley, Tyler Boyles, David Gibbons, Lauren Petty, and Ben Hodges: Georgia Power by email
William Cook, Tammy Buchli, Beverly Tipton, Keith Stevens, and Mark Wescott: EPD

File: S:\Land\LANDDOCS\SW\CCR Applications\GP Plant McManus\AP-1)\EPD Correspondence\Groundwater Correspondence

Appendix B

Well Installation Report

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company
Brunswick, Georgia

Our Ref:
30180421.00009

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

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2.2 Screened Interval 1
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Table 1. Well Completion Details

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Figure 1. Site Map and Compliance Monitoring Well Network
Figure 2. Well Location Map – Pilot Study Area

Appendices

A Boring Logs and Well Construction Details
B Well Driller Performance Bond
C Well Development Logs
D Survey Report

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

09-27-2024

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng), Vice President

Date

1 Introduction

This report documents the installation of two piezometers at Georgia Power Company (Georgia Power) Plant McManus Former Ash Pond 1 (AP-1). One injection well (INW-01) and one dose response well (DR-03), screened at similar depth and lithology to detection well MCM-06 and in general accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan [GWMP] (Resolute 2021) were installed. Exceptions to the design presented in the GWMP are associated with the purpose of the wells (injection and dose response monitoring) in support of an approved Injection Pilot Study Workplan (Arcadis 2024, GEOS ID 836675).

2 Drilling and Well Installation

The piezometer locations are shown in **Figure 1**. The installation date, location, elevation, screen interval, and designations for the installed wells are provided in the following sections. Boring logs with well construction details are provided in **Appendix A**. A summary of well construction details is provided in **Table 1**.

2.1 Drilling Method

The wells were installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation, provided in **Appendix B**. The well installations were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. A Terra Sonic 150CC Compact Crawler sonic rig was used to drill the boreholes where the wells were installed. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Interval

Injection well INW-01 is constructed with 15 feet of 4-inch diameter well screen placed at an interval of 15.95 feet to 30.95 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap placed on the bottom 0.1-foot sump/sediment trap.

Dose response well DR-03 is constructed with 15 feet of 2-inch diameter well screen placed at an interval of 15.90 feet to 30.90 feet bgs with a flush-threaded PVC end cap placed on the bottom 0.6-foot sump/sediment trap.

The screen intervals are provided along with the construction details in **Table 1**.

2.3 Well Construction Materials

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling and injection in the case of INW-01; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The dose response well was constructed of 2-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. The injection well was constructed of 4-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. Factory machine slotted 0.010-inch

screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. The casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing at INW-01, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to a minimum of 2 feet above the top of the screen. Approximately 4.5 cubic feet of filter sand were used for INW-01.

Following placement of the well screen and casing at DR-03, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to approximately 3 feet above the top of the screen. Approximately 2.5 cubic feet of bags of filter sand were used for DR-03.

After placing the filter pack and prior to installing the annular seal, each well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen. Well construction and boring logs are provided in **Appendix A**.

2.3.2 Annular Seal and Well Completion

For INW-01, an annular seal composed of approximately 12 feet of neat cement grout (approximately 9 cubic feet) was placed on top of 2 feet of Standard Sand & Silica Co. fine sand (30/65 filter sand) and tremie-grouted to surface. Approximately 0.5 cubic feet of 30/65 filter sand was used as an annular seal for INW-01. The monitoring well surface completion consists of a 12-inch bolt down manhole and a four-foot by four-foot by six-inch concrete pad.

For DR-03, an annular seal composed of 3/8-inch Baroid Holeplug® non-coated, bentonite chips was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Bentonite chips were placed from the top of the 20/30 sand to a thickness of approximately 2 feet in order to prevent grout contamination into the water-bearing zone. Approximately 0.5 cubic feet of bentonite chips were used. Following hydration of the bentonite, the remaining annular space was filled to approximately 4.9 feet bgs with Sand & Silica Co. fine sand (30/65 filter sand) to top of the water table (approximately 1 cubic foot) and tremie-grouted to surface with approximately 0.5 cubic feet of cement bentonite grout. The monitoring well surface completion consists of a 6-inch diameter bolt down manhole and a two-foot by two-foot by six-inch concrete pad.

3 Well Development

Injection well INW-01 was developed on June 4, 2024, using a 12-volt Proactive submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the Proactive submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 1.43 nephelometric turbidity units (NTU).

Dose response well DR-03 was developed on June 3, 2024, using a Geotech Reclaimer submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH,

temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 9.19 nephelometric turbidity units (NTU).

The well development forms are included in **Appendix C**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Shupe Surveying Company, P.C. on June 27, 2024 using a Carlson BRX-7 Global Positioning System (GPS) and Geomax Model Zone 20-HV Laser Level. A re-survey was performed on August 28, 2024 to achieve the requisite vertical accuracy. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83), US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.5-foot. Vertical elevations are referenced to North American Vertical Datum of 1988 (NAVD1988), US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix D**.

5 References

Arcadis. 2024. MCM-06 Pilot Study Work Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

Resolute. 2021. Groundwater Monitoring Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

Tables

Table 1 - Well Completion Details
Georgia Power Company
Plant McManus
Brunswick, Georgia

Well ID	Installation Date	Northing [1] (feet)	Easting [1] (feet)	Ground Surface Elevation [2]	Top of Casing Elevation [2]	Total Depth (feet bgs)	Depth of Well (feet bTOC)	Screened Interval (feet bgs)	
								Top	Bottom
INW-01	6/1/2024	444,418.01	850,792.41	7.50	7.18	31.05	30.73	15.95	30.95
DR-03	6/1/2024	444,422.02	850,792.49	7.65	7.40	31.50	31.25	15.90	30.90

Notes:
1 - All horizontal locations surveyed to the Georgia State Plane Coordinate System, East Zone, NAD83
2 - Vertical elevations surveyed relative to NAVD88 (U.S. Survey Feet)
3 - Total Depth includes well sump (0.1 ft for INW-01 and 0.6 ft for DR-03)

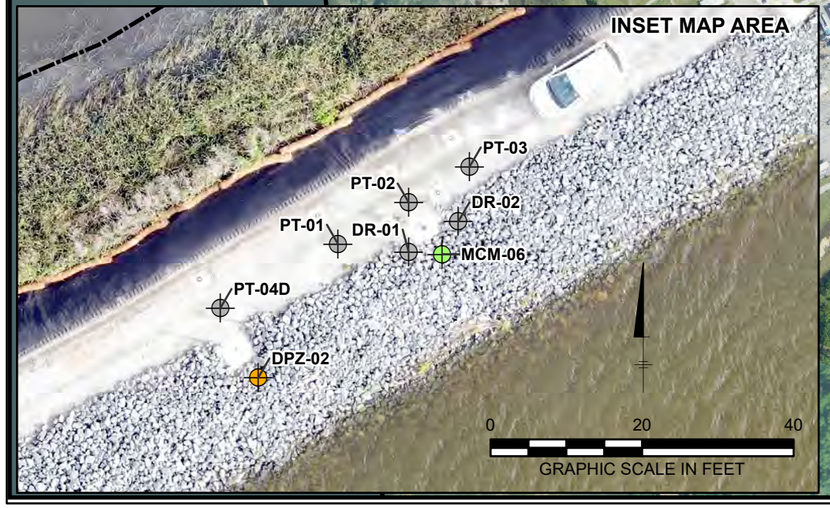
Acronyms & Abbreviations:
bgs - below ground surface
bTOC - below top of casing
NAD83 - North American Datum of 1983
NAVD88 - North American Vertical Datum of 1988

Figures

Burnett Creek

Turtle River

MCM-15
MCM-04
MCM-05
MCM-16
MCM-02
PT-01
PT-02
PT-03
INSET MAP AREA
NORTHERN DIKE
DR-01
DR-02
DPZ-02
MCM-06
MCM-07
FORMER AP-1
MCM-01
MCM-14
CRISPEN BOULEVARD
(SOUTHERN DIKE)
MCM-17
MCM-12
MCM-11
MCM-18
MCM-19
MCM-20



LEGEND

- PROPERTY BOUNDARY
- PERMITTED CCR BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

SITE MAP AND MONITORING WELL NETWORK

ARCADIS

FIGURE
1

LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

**WELL LOCATION MAP -
PILOT STUDY AREA**

ARCADIS

FIGURE
2

Appendix A

Boring Logs and Well Construction Details

RECORD OF BOREHOLE INW-01

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/30/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444418.01
EASTING: 850792.41
GS ELEVATION: 7.50
TOC ELEVATION: 7.18

DEPTH W.L.: 5.94
ELEVATION W.L.: 1.24
DATE W.L.:
TIME W.L.:

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	INW-01 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 1.0 Gravel	FILL		0.0					SURFACE COMPLETION Protection: 12" Cast Iron Pad: 4'x4' Concrete Lock: Yes
	1.0 - 10.8 (SP) SAND; 7.5YR 7/6; loose; fine grained; well sorted; subangular; moist; FILL.	SP		1.0	1		7.5 10.0	ANNULUS SEAL Interval: 0.5'-12' Type: Quickrete Portland Type I/II Neat Cement Grout Quantity: 9.0 cf	WELL CASING Interval: 0'-15.95' Material: Schedule 40 PVC Diameter: 4" Joint Type: Threaded
5	Grading to 10YR 8/4.								
10	10.8 - 14.6 (CLS) Sandy CLAY; 7.5 YR 4/1; soft; medium to high plasticity; wet.	CLS		10.8	2		9.0 10.0	FILTER PACK SEAL Interval: 12'-14' Type: 30/65 Standard Sand and Silica Quantity: 0.5 cf	
15	14.6 - 16.8 (SP) SAND; 7.5YR 5/1; loose; fine grained; poorly sorted; subangular; wet; odor.	SP		14.6					WELL SCREEN Interval: 15.95'-30.95' Material: Schedule 40 PVC Diameter: 4" Slot Size: 0.010"
20	Grading to 7.5YR 5/2.				3		8.5 10.0	FILTER PACK Interval: 14'-33' Type: 20/30 Standard Sand and Silica Quantity: 4.5 cf	
25									
30	grading some shell fragments; GLEY1 5/N				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

RECORD OF BOREHOLE DR-03

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/31/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444422.02
EASTING: 850792.49
GS ELEVATION: 7.65
TOC ELEVATION: 7.40

DEPTH W.L.: 6.67
ELEVATION W.L.: 0.75
DATE W.L.: 6/3/2024
TIME W.L.: 12:45:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	DR-03 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 0.8 Gravel	FILL		0.0				ANNULUS SEAL Interval: 0.5'-4.9' Type: Quickrete Portland Type I/II Cement Bentonite Grout Quantity: 0.5 cf	SURFACE COMPLETION Protection: 6" Cast Iron Pad: 2'x2' Concrete Lock: Yes
	0.8 - 11.5 (SP) SAND; 7.5YR 7/4; loose; well sorted; fine grained; subangular; moist; FILL.			0.8					WELL CASING Interval: 0'-15.90' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	Grading to 7.5YR 7/2.				1		8.5 10.0		
	Grading to 7.5YR 7/3.	SP						FILTER PACK SEAL Interval: 4.9'-11.1' Type: 30/65 Standard Sand and Silica Quantity: 1.0 cf	
	Grading to 10YR 6/1.								
10									
	11.5 - 13.0 (CL) CLAY; GLEY1 5/N; soft; high plasticity; moist.	CL		11.5				FILTER PACK SEAL Interval: 11.1'-13.1' Type: 3/8" Hole Plug Bentonite Chips Quantity: 0.5 cf	
	13.0 - 13.5 (CLS) Sandy CLAY; GLEY1 5/N; soft; high plasticity; moist.	CLS		13.0					
	13.5 - 33.0 (SP) SAND; GLEY1 5/10Y; well sorted; fine grained; subangular to subrounded; wey.			13.5	2		10.0 10.0		WELL SCREEN Interval: 15.90'-30.90' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010"
20	Grading to very fine grained; very wet; GLEY2 5/10BG.								
		SP						FILTER PACK Interval: 13.1'-32' Type: 20/30 Standard Sand and Silica Quantity: 2.5 cf	
25	Grading fine grained; subrounded; less wet.				3		9.0 10.0		
30	grading some shell fragments GLEY1 5/N.				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

Appendix B

Well Driller Performance Bond

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

Appendix C

Well Development Logs

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/3/24

Calibrated By: Jay Silvert

Field Conditions: 86°/48°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration

Time Start	1502	Time Finish	1523		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.72	36.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4313.1	34.29	± 10% of standard	EPA 2023
pH (SU)	4.00	3.81	34.58	± 0.1	GWMP
pH (SU)	7.00	6.74	32.59	± 0.1	GWMP
pH (SU)	10.00	9.70	31.78	± 0.1	GWMP
ORP (mV)	228.0	216.0	31.37	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.38		

Calibration Check

Time Start	1842	Time Finish	1850		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4805.9	31.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	30.79	± 0.1	GWMP
pH (SU)	7.00	~~7.23~~ 7.38	30.32	± 0.1	GWMP
pH (SU)	10.00	10.23	29.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.58		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/4/24

Calibrated By: Joey Stewart

Field Conditions: 86° / 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	832	**Time Finish**	845		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.77	25.73	± 10%	NA
Specific Conductance (µS/cm)	4,490	4568.6	25.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	25.58	± 0.1	GWMP
pH (SU)	7.00	7.05	25.21	± 0.1	GWMP
pH (SU)	10.00	10.13	25.58	± 0.1	GWMP
ORP (mV)	228.0	236.3	25.42	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.63		

Calibration Check					
Time Start	1535	**Time Finish**	1541		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4592.3	31.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	31.36	± 0.1	GWMP
pH (SU)	7.00	~~8.90~~ 7.28	32.07	± 0.1	GWMP
pH (SU)	10.00	10.07	31.15	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.28		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/4/2024 2:14:19 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.77 ft** **Total Depth: 30.77 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: 12V Proactive** **Tubing Type: LDPE** **Pump Intake From TOC: 23.27 ft** **Estimated Total Volume Pumped: 480000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 4.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 5 hours and 1,968 L prior to trolling. Gray/black purge water on initial pumping. 6.25ft of drawdown observed at 2.5GPM. Hydraulic surging performed across full length of the screen. Pumping performed at each foot of screen length for approximatley 10 minutes and an average of 20gals. 5.41ft of drawdown observed before termination of pumping at 2.5 GPM. Final Depth: 30.78ft.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/4/2024 2:14 PM	00:00	7.44 pH	24.67 °C	7,993.4 µS/cm	0.00 mg/L	1.03 NTU	-104.7 mV	10.45 ft	4.49 PSU	8,000.0 ml/min
6/4/2024 2:19 PM	05:00	7.49 pH	22.43 °C	8,199.3 µS/cm	0.01 mg/L	1.23 NTU	-258.0 mV	10.10 ft	4.61 PSU	8,000.0 ml/min
6/4/2024 2:24 PM	10:00	7.47 pH	22.42 °C	8,249.2 µS/cm	0.00 mg/L	0.97 NTU	-157.9 mV	10.74 ft	4.64 PSU	8,000.0 ml/min
6/4/2024 2:29 PM	15:00	7.47 pH	22.39 °C	8,314.6 µS/cm	0.00 mg/L	0.56 NTU	-166.9 mV	10.80 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:34 PM	20:00	7.46 pH	22.37 °C	8,235.2 µS/cm	0.00 mg/L	0.52 NTU	-176.6 mV	10.80 ft	4.63 PSU	8,000.0 ml/min
6/4/2024 2:39 PM	25:00	7.46 pH	22.37 °C	8,321.6 µS/cm	0.00 mg/L	0.56 NTU	-186.2 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:44 PM	30:00	7.46 pH	22.30 °C	8,333.3 µS/cm	0.00 mg/L	0.36 NTU	-194.7 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:49 PM	35:00	7.46 pH	22.29 °C	8,308.4 µS/cm	0.00 mg/L	0.36 NTU	-201.5 mV	10.79 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:54 PM	40:00	7.45 pH	22.35 °C	8,297.7 µS/cm	0.00 mg/L	0.33 NTU	-208.1 mV	10.80 ft	4.67 PSU	8,000.0 ml/min
6/4/2024 2:59 PM	45:00	7.44 pH	22.34 °C	8,278.6 µS/cm	0.00 mg/L	0.31 NTU	-215.4 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:04 PM	50:00	7.44 pH	22.36 °C	8,264.5 µS/cm	0.00 mg/L	0.26 NTU	-222.4 mV	10.80 ft	4.65 PSU	8,000.0 ml/min
6/4/2024 3:09 PM	55:00	7.44 pH	22.36 °C	8,280.2 µS/cm	0.00 mg/L	0.24 NTU	-228.0 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:14 PM	01:00:00	7.44 pH	22.35 °C	8,269.2 µS/cm	0.00 mg/L	1.43 NTU	-234.9 mV	10.80 ft	4.65 PSU	8,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/3/2024 4:25:45 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.22 ft** **Total Depth: 31.22 ft** **Initial Depth to Water: 6.67 ft**	**Pump Type: GeoTech Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 23.72 ft** **Estimated Total Volume Pumped: 170000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min** **Final Draw Down: -1.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 6+ hours and 2,365L prior to trolling. Gray purge water on initial pumping. 0.83ft of drawdown observed at 3GPM. Water cleared fast. Hydraulic surging performed across full length of the screen 2x with pumping being performed at each foot of screen length.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/3/2024 4:25 PM	00:00	7.51 pH	23.33 °C	6,902.5 µS/cm	0.30 mg/L	45.90 NTU	-65.5 mV	6.20 ft	3.84 PSU	1,400.0 ml/min
6/3/2024 4:30 PM	05:00	7.63 pH	22.96 °C	7,124.7 µS/cm	0.47 mg/L	35.20 NTU	-82.1 mV	6.03 ft	3.97 PSU	1,400.0 ml/min
6/3/2024 4:35 PM	10:00	7.71 pH	22.92 °C	7,298.9 µS/cm	1.49 mg/L	33.20 NTU	-75.4 mV	6.29 ft	4.07 PSU	1,400.0 ml/min
6/3/2024 4:40 PM	15:00	7.70 pH	22.81 °C	7,420.3 µS/cm	0.51 mg/L	23.20 NTU	-75.5 mV	6.02 ft	4.15 PSU	1,400.0 ml/min
6/3/2024 4:45 PM	20:00	7.68 pH	22.79 °C	7,547.7 µS/cm	0.32 mg/L	16.20 NTU	-86.9 mV	6.12 ft	4.22 PSU	1,400.0 ml/min
6/3/2024 4:50 PM	25:00	7.68 pH	22.79 °C	7,689.5 µS/cm	0.44 mg/L	15.40 NTU	-90.6 mV	6.08 ft	4.31 PSU	1,400.0 ml/min
6/3/2024 4:55 PM	30:00	7.67 pH	22.71 °C	7,739.5 µS/cm	0.29 mg/L	17.30 NTU	-93.8 mV	5.99 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:00 PM	35:00	7.66 pH	22.79 °C	7,748.0 µS/cm	0.28 mg/L	11.30 NTU	-97.4 mV	5.95 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:05 PM	40:00	7.66 pH	22.78 °C	7,742.5 µS/cm	0.31 mg/L	13.60 NTU	-99.9 mV	6.01 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:10 PM	45:00	7.65 pH	22.79 °C	7,736.3 µS/cm	0.27 mg/L	17.60 NTU	-105.0 mV	5.96 ft	4.33 PSU	1,400.0 ml/min
6/3/2024 5:15 PM	50:00	7.65 pH	22.79 °C	7,777.5 µS/cm	0.29 mg/L	11.70 NTU	-107.1 mV	5.92 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:20 PM	55:00	7.65 pH	22.72 °C	7,764.8 µS/cm	0.29 mg/L	17.80 NTU	-111.3 mV	5.90 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:25 PM	01:00:00	7.64 pH	22.76 °C	7,760.3 µS/cm	0.23 mg/L	16.50 NTU	-116.2 mV	5.78 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:30 PM	01:05:00	7.64 pH	22.79 °C	7,777.2 µS/cm	0.28 mg/L	13.50 NTU	-119.9 mV	5.65 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:35 PM	01:10:00	7.63 pH	22.75 °C	7,810.3 µS/cm	0.34 mg/L	14.10 NTU	-128.8 mV	5.72 ft	4.38 PSU	1,400.0 ml/min

6/3/2024 5:40 PM	01:15:00	7.63 pH	22.79 °C	7,797.3 µS/cm	0.37 mg/L	11.90 NTU	-136.2 mV	5.55 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 5:45 PM	01:20:00	7.63 pH	22.75 °C	7,808.1 µS/cm	0.35 mg/L	11.40 NTU	-149.0 mV	5.48 ft	4.38 PSU	1,400.0 ml/min
6/3/2024 5:50 PM	01:25:00	7.63 pH	22.74 °C	7,774.4 µS/cm	0.38 mg/L	12.20 NTU	-161.3 mV	5.39 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:55 PM	01:30:00	7.61 pH	22.83 °C	7,829.8 µS/cm	0.26 mg/L	10.22 NTU	-171.3 mV	5.25 ft	4.39 PSU	1,400.0 ml/min
6/3/2024 6:00 PM	01:35:00	7.64 pH	22.83 °C	7,808.5 µS/cm	0.51 mg/L	12.46 NTU	-173.2 mV	5.21 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:05 PM	01:40:00	7.60 pH	22.88 °C	7,807.1 µS/cm	0.27 mg/L	10.86 NTU	-186.6 mV	5.15 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:10 PM	01:45:00	7.62 pH	22.83 °C	7,803.2 µS/cm	0.43 mg/L	10.81 NTU	-192.0 mV	5.06 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:15 PM	01:50:00	7.59 pH	23.00 °C	7,841.5 µS/cm	0.19 mg/L	10.33 NTU	-201.3 mV	4.92 ft	4.40 PSU	1,400.0 ml/min
6/3/2024 6:20 PM	01:55:00	7.59 pH	23.03 °C	7,789.8 µS/cm	0.17 mg/L	8.53 NTU	-208.4 mV	4.86 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:25 PM	02:00:00	7.59 pH	22.97 °C	7,778.1 µS/cm	0.23 mg/L	9.19 NTU	-210.1 mV	4.81 ft	4.36 PSU	1,400.0 ml/min

Samples

Sample ID:	Description:

Appendix D

Survey Report

Shupe Surveying Company, P.C.

3837 Darien Hwy
Brunswick, GA 31525
912-265-0562

PLANT MCMANUS WELL SURVEY 9/05/2024

WELL #	NORTHING	EASTING	CASING ELEVATION	GROUND ELEVATION
INW-01	444418.01	850792.41	7.18	(NAIL) 7.50
DR-03	444422.02	850792.49	7.40	(NAIL) 7.65

HORIZONTAL DATUM: GA COORD SYSTEM, EAST ZONE NAD-83

VERTICAL DATUM: NAVD-88

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION FOR THE PVC WELL CASINGS.

DATE OF FIELD SURVEY & INSPECTION: 06/27/2024 AND 08/28/24. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL AND VERTICAL LOCATION: CARLSON BRX-7 GPS RECEIVER WITH A VRS NETWORK, CARLSON RT4 DATA COLLECTOR AND A GEOMAX MODEL ZONE 20-HV LASER LEVEL.

Appendix C

Baseline Analytical Laboratory Results and Field Sampling Forms

Site Name: Plant McManus

Calibrated By: Jerry Stewart

Field Instrumentation Calibration Form

Date: 6/18/24

Field Conditions: 81°/70°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	830	Time Finish	845		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.63	28.48	± 10%	NA
Specific Conductance (µS/cm)	4,490	4467.8	28.54	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	28.86	± 0.1	GWMP
pH (SU)	7.00	6.97	28.39	± 0.1	GWMP
pH (SU)	10.00	9.93	28.01	± 0.1	GWMP
ORP (mV)	228.0	220.4	27.51	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	10.28		

Calibration Check					
Time Start	1748	Time Finish	1758		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4575.5	30.27	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	29.78	± 0.1	GWMP
pH (SU)	7.00	7.19	31.04	± 0.1	GWMP
pH (SU)	10.00	10.08	31.74	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	10.26		

Notes:

Site Name: Plant McMahan's

Calibrated By: Jay Siewert

Field Instrumentation Calibration Form

Date: 6/19/24

Field Conditions: 85°/73°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	817	Time Finish	834		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	98.13	26.95	± 10%	NA
Specific Conductance (µS/cm)	4,490	4464.1	26.87	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	27.14	± 0.1	GWMP
pH (SU)	7.00	6.95	26.78	± 0.1	GWMP
pH (SU)	10.00	9.92	26.89	± 0.1	GWMP
ORP (mV)	228.0	228.4	27.72	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	10.38		

Calibration Check					
Time Start	1545	Time Finish	1553		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4582.0	30.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	29.86	± 0.1	GWMP
pH (SU)	7.00	7.09	30.94	± 0.1	GWMP
pH (SU)	10.00	9.94	32.38	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.03		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/19/2024 1:49:29 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.92 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
6/19/2024 1:49 PM	00:00	6.65 pH	25.87 °C	14,044 µS/cm	0.09 mg/L	0.20 NTU	-152.1 mV	6.16 ft	8.25 PSU	210.00 ml/min
6/19/2024 1:54 PM	05:00	6.71 pH	25.35 °C	14,183 µS/cm	0.06 mg/L	0.16 NTU	-192.2 mV	6.19 ft	8.33 PSU	210.00 ml/min
6/19/2024 1:59 PM	10:00	6.74 pH	25.28 °C	14,182 µS/cm	0.06 mg/L	0.08 NTU	-192.4 mV	6.20 ft	8.33 PSU	210.00 ml/min
6/19/2024 2:04 PM	15:00	6.68 pH	25.19 °C	14,247 µS/cm	0.06 mg/L	0.20 NTU	-192.5 mV	6.20 ft	8.37 PSU	210.00 ml/min
6/19/2024 2:09 PM	20:00	6.66 pH	25.64 °C	14,231 µS/cm	0.05 mg/L	0.35 NTU	-194.1 mV	6.20 ft	8.36 PSU	210.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/19/2024 9:45:42 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.28 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/19/2024 9:45 AM	00:00	7.14 pH	24.72 °C	7,777.6 µS/cm	0.37 mg/L	0.17 NTU	-124.7 mV	7.51 ft	4.36 PSU	210.00 ml/min
6/19/2024 9:50 AM	05:00	7.08 pH	24.19 °C	7,877.7 µS/cm	0.09 mg/L	0.09 NTU	-121.4 mV	7.55 ft	4.42 PSU	210.00 ml/min
6/19/2024 9:55 AM	10:00	7.09 pH	24.48 °C	7,893.5 µS/cm	0.04 mg/L	0.03 NTU	-125.9 mV	7.59 ft	4.43 PSU	210.00 ml/min
6/19/2024 10:00 AM	15:00	7.12 pH	24.14 °C	7,868.5 µS/cm	0.04 mg/L	0.35 NTU	-125.5 mV	7.61 ft	4.42 PSU	210.00 ml/min
6/19/2024 10:05 AM	20:00	7.12 pH	24.23 °C	7,884.2 µS/cm	0.03 mg/L	0.04 NTU	-127.5 mV	7.65 ft	4.43 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 6/18/2024 11:06:28 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 5.44 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/18/2024 11:06 AM	00:00	6.57 pH	25.14 °C	11,253 µS/cm	0.08 mg/L	0.83 NTU	-272.5 mV	5.76 ft	6.49 PSU	200.00 ml/min
6/18/2024 11:11 AM	05:00	6.68 pH	24.56 °C	11,147 µS/cm	0.08 mg/L	0.53 NTU	-286.9 mV	5.81 ft	6.42 PSU	200.00 ml/min
6/18/2024 11:16 AM	10:00	6.76 pH	24.21 °C	10,898 µS/cm	0.07 mg/L	0.56 NTU	-290.9 mV	5.83 ft	6.27 PSU	200.00 ml/min
6/18/2024 11:21 AM	15:00	6.76 pH	24.33 °C	10,923 µS/cm	0.06 mg/L	0.80 NTU	-292.0 mV	5.86 ft	6.28 PSU	200.00 ml/min
6/18/2024 11:26 AM	20:00	6.81 pH	23.88 °C	10,756 µS/cm	0.06 mg/L	0.41 NTU	-295.6 mV	5.88 ft	6.18 PSU	200.00 ml/min
6/18/2024 11:31 AM	25:00	6.82 pH	23.70 °C	10,805 µS/cm	0.06 mg/L	0.12 NTU	-296.9 mV	5.90 ft	6.21 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/18/2024 3:24:28 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 6.04 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/18/2024 3:24 PM	00:00	7.15 pH	25.78 °C	8,953.5 µS/cm	0.11 mg/L	0.50 NTU	-205.3 mV	5.90 ft	5.07 PSU	210.00 ml/min
6/18/2024 3:29 PM	05:00	7.12 pH	25.46 °C	8,896.5 µS/cm	0.08 mg/L	0.59 NTU	-204.4 mV	5.87 ft	5.04 PSU	210.00 ml/min
6/18/2024 3:34 PM	10:00	7.16 pH	25.13 °C	8,829.4 µS/cm	0.04 mg/L	0.49 NTU	-202.8 mV	5.84 ft	5.00 PSU	210.00 ml/min
6/18/2024 3:39 PM	15:00	7.21 pH	24.93 °C	8,685.6 µS/cm	0.04 mg/L	0.33 NTU	-202.5 mV	5.80 ft	4.91 PSU	210.00 ml/min
6/18/2024 3:44 PM	20:00	7.21 pH	24.58 °C	8,670.2 µS/cm	0.04 mg/L	0.27 NTU	-202.0 mV	5.76 ft	4.90 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/19/2024 1:40:57 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 6.22 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/19/2024 1:40 PM	00:00	7.52 pH	25.43 °C	6,879.3 µS/cm	0.05 mg/L	2.31 NTU	-184.3 mV	6.30 ft	3.82 PSU	200.00 ml/min
6/19/2024 1:45 PM	05:00	7.48 pH	25.48 °C	6,835.7 µS/cm	0.03 mg/L	1.43 NTU	-177.2 mV	6.31 ft	3.80 PSU	200.00 ml/min
6/19/2024 1:50 PM	10:00	7.50 pH	25.31 °C	6,923.8 µS/cm	0.03 mg/L	1.12 NTU	-175.7 mV	6.31 ft	3.85 PSU	200.00 ml/min
6/19/2024 1:55 PM	15:00	7.55 pH	25.02 °C	7,074.2 µS/cm	0.02 mg/L	1.37 NTU	-171.3 mV	6.32 ft	3.94 PSU	200.00 ml/min
6/19/2024 2:00 PM	20:00	7.55 pH	25.12 °C	7,116.3 µS/cm	0.02 mg/L	2.43 NTU	-165.4 mV	6.32 ft	3.97 PSU	200.00 ml/min
6/19/2024 2:05 PM	25:00	7.53 pH	25.28 °C	7,144.7 µS/cm	0.01 mg/L	1.93 NTU	-271.6 mV	6.35 ft	3.98 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/19/2024 9:54:32 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.62 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.5 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
6/19/2024 9:54 AM	00:00	6.41 pH	26.47 °C	11,634 µS/cm	0.10 mg/L	0.52 NTU	-244.2 mV	4.92 ft	6.73 PSU	210.00 ml/min
6/19/2024 9:59 AM	05:00	6.57 pH	24.69 °C	11,769 µS/cm	0.09 mg/L	0.39 NTU	-292.6 mV	4.96 ft	6.81 PSU	210.00 ml/min
6/19/2024 10:04 AM	10:00	6.57 pH	24.93 °C	11,674 µS/cm	0.07 mg/L	0.43 NTU	-249.3 mV	4.98 ft	6.75 PSU	210.00 ml/min
6/19/2024 10:09 AM	15:00	6.59 pH	24.69 °C	11,523 µS/cm	0.07 mg/L	0.39 NTU	-246.9 mV	5.03 ft	6.66 PSU	210.00 ml/min
6/19/2024 10:14 AM	20:00	6.59 pH	24.65 °C	11,518 µS/cm	0.06 mg/L	0.32 NTU	-245.5 mV	5.08 ft	6.65 PSU	210.00 ml/min
6/19/2024 10:19 AM	25:00	6.61 pH	24.69 °C	11,265 µS/cm	0.06 mg/L	0.29 NTU	-245.2 mV	5.12 ft	6.50 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/18/2024 3:16:56 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.29 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 4.5L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
6/18/2024 3:16 PM	00:00	6.27 pH	30.85 °C	10,241 µS/cm	0.08 mg/L	0.25 NTU	-76.9 mV	6.25 ft	5.86 PSU	200.00 ml/min
6/18/2024 3:21 PM	05:00	6.52 pH	26.19 °C	10,983 µS/cm	0.04 mg/L	0.31 NTU	-228.4 mV	6.20 ft	6.32 PSU	200.00 ml/min
6/18/2024 3:26 PM	10:00	6.42 pH	25.61 °C	10,920 µS/cm	0.04 mg/L	0.27 NTU	-243.9 mV	6.14 ft	6.28 PSU	200.00 ml/min
6/18/2024 3:31 PM	15:00	6.35 pH	25.32 °C	10,735 µS/cm	0.05 mg/L	0.30 NTU	-257.3 mV	6.12 ft	6.17 PSU	200.00 ml/min
6/18/2024 3:36 PM	20:00	6.39 pH	25.21 °C	10,692 µS/cm	0.05 mg/L	0.80 NTU	-277.3 mV	6.09 ft	6.14 PSU	200.00 ml/min
6/18/2024 3:41 PM	25:00	6.43 pH	24.89 °C	10,499 µS/cm	0.05 mg/L	0.24 NTU	-298.0 mV	6.07 ft	6.02 PSU	200.00 ml/min
6/18/2024 3:46 PM	30:00	6.47 pH	24.83 °C	10,311 µS/cm	0.04 mg/L	0.36 NTU	-317.9 mV	6.01 ft	5.91 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 6/18/2024 11:17:38 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 5.62 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 6303.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/18/2024 11:17 AM	00:00	6.24 pH	24.59 °C	12,344 µS/cm	0.04 mg/L	7.81 NTU	-48.7 mV	5.81 ft	7.17 PSU	200.00 ml/min
6/18/2024 11:19 AM	01:31	6.24 pH	24.62 °C	12,334 µS/cm	0.03 mg/L	9.13 NTU	-25.9 mV	5.82 ft	7.16 PSU	200.00 ml/min
6/18/2024 11:24 AM	06:31	6.27 pH	24.64 °C	12,252 µS/cm	0.04 mg/L	7.07 NTU	-25.1 mV	5.83 ft	7.11 PSU	200.00 ml/min
6/18/2024 11:29 AM	11:31	6.31 pH	25.09 °C	11,929 µS/cm	0.02 mg/L	6.18 NTU	-33.7 mV	5.85 ft	6.91 PSU	200.00 ml/min
6/18/2024 11:34 AM	16:31	6.34 pH	25.05 °C	11,798 µS/cm	0.02 mg/L	5.41 NTU	-39.0 mV	5.87 ft	6.83 PSU	200.00 ml/min
6/18/2024 11:39 AM	21:31	6.39 pH	25.36 °C	11,536 µS/cm	0.02 mg/L	4.13 NTU	-48.8 mV	5.89 ft	6.67 PSU	200.00 ml/min
6/18/2024 11:44 AM	26:31	6.43 pH	25.36 °C	11,387 µS/cm	0.02 mg/L	3.41 NTU	-55.0 mV	5.91 ft	6.57 PSU	200.00 ml/min
6/18/2024 11:49 AM	31:31	6.47 pH	24.84 °C	11,243 µS/cm	0.03 mg/L	2.43 NTU	-58.2 mV	5.92 ft	6.48 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

July 11, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 672636

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 21, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to include total and dissolved Manganese. This replaces the original data package issued on July 3, 2024.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
672636001	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
672636002	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
672636003	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
672636004	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22
672636005	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22
672636006	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
672636007	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
672636008	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
672636009	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22
672636010	MCM-AP1-FB-01	Ground Water	06/18/24 18:20	06/21/24 09:22
672636011	MCM-AP1-EB-01	Ground Water	06/18/24 18:06	06/21/24 09:22
672636012	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
672636013	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
672636014	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
672636015	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22

672636016	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22
672636017	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
672636018	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
672636019	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
672636020	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22

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.

Prep Methods and Prep Dates

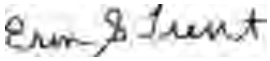
Method	Run Date ID
SW846 3005A	25-JUN-2024
SW846 7470A Prep	24-JUN-2024
SW846 7470A Prep	25-JUN-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	22-JUN-2024
EPA 300.0	23-JUN-2024
EPA 300.0	24-JUN-2024
EPA 300.0	25-JUN-2024
SM 2320B	21-JUN-2024
SM 2540C	25-JUN-2024
SM 2540C	26-JUN-2024
SW846 3005A/6020B	29-JUN-2024
SW846 3005A/6020B	30-JUN-2024
SW846 7470A	25-JUN-2024
SW846 7470A	26-JUN-2024

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. 4504.

Sincerely,



Erin Trent
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 672636 GEL Work Order: 672636

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

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.

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, Erin Trent.

Reviewed by Erin B Trent

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

Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-INW-01
Sample ID: 672636001
Matrix: WG
Collect Date: 19-JUN-24 14:10
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4710	33.5	100	mg/L		500	RXB5	06/23/24	0514	2630581	1
Sulfate		556	66.5	200	mg/L		500					
Fluoride	U	ND	0.165	4.00	mg/L		5	RXB5	06/22/24	1551	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1143	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Magnesium		314	1.00	3.00	mg/L	1.00	100	PRB	06/29/24	1635	2630949	4
Sodium		2390	8.00	25.0	mg/L	1.00	100					
Boron		0.519	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1734	2630949	5
Calcium		234	0.400	1.00	mg/L	1.00	5					
Potassium		83.6	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1402	2630949	6
Arsenic		0.00780	0.00200	0.00500	mg/L	1.00	1					
Barium		0.282	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.709	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0258	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.238	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000475	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00158	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7990	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		231	0.725	2.00	mg/L			JW2	06/21/24	1556	2630454	8
Bicarbonate alkalinity (CaCO3)		231	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-06
Sample ID: 672636002
Matrix: WG
Collect Date: 19-JUN-24 10:15
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.439	0.165	4.00	mg/L		5	RXB5	06/22/24	1724	2630581	1
Chloride		2180	33.5	100	mg/L		500	RXB5	06/23/24	0646	2630581	2
Sulfate		269	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1144	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1643	2630949	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1427	2630949	5
Arsenic		0.0776	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0528	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0721	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0391	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0960	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000894	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.645	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1745	2630949	6
Calcium		85.3	0.400	1.00	mg/L	1.00	5					
Magnesium		150	0.0500	0.150	mg/L	1.00	5					
Potassium		59.3	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4360	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		309	0.725	2.00	mg/L			JW2	06/21/24	1559	2630454	8
Bicarbonate alkalinity (CaCO3)		309	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	672636002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	672636003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.283	0.165	4.00	mg/L		5	RXB5	06/22/24	1927	2630581	1
Chloride		3570	33.5	100	mg/L		500	RXB5	06/23/24	0850	2630581	2
Sulfate		454	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1149	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1431	2630949	4
Arsenic		0.0132	0.00200	0.00500	mg/L	1.00	1					
Barium		0.725	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.244	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0237	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.285	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000619	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.657	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1747	2630949	5
Calcium		169	0.400	1.00	mg/L	1.00	5					
Magnesium		228	0.0500	0.150	mg/L	1.00	5					
Potassium		71.8	0.400	1.50	mg/L	1.00	5					
Sodium		1740	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1646	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6380	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		232	0.725	2.00	mg/L			JW2	06/21/24	1601	2630454	8
Bicarbonate alkalinity (CaCO3)		232	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	672636003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-02
Sample ID: 672636004
Matrix: WG
Collect Date: 18-JUN-24 15:57
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3140	33.5	100	mg/L		500	RXB5	06/23/24	0921	2630581	1
Sulfate		379	66.5	200	mg/L		500					
Fluoride	J	0.289	0.165	4.00	mg/L		5	RXB5	06/22/24	1958	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1151	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		1570	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1652	2630949	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1434	2630949	5
Arsenic		0.0180	0.00200	0.00500	mg/L	1.00	1					
Barium		0.517	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.98	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0191	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.357	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000531	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.539	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1753	2630949	6
Calcium		142	0.400	1.00	mg/L	1.00	5					
Magnesium		207	0.0500	0.150	mg/L	1.00	5					
Potassium		61.9	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5610	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		222	0.725	2.00	mg/L			JW2	06/21/24	1603	2630454	8
Bicarbonate alkalinity (CaCO3)		222	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	672636004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-03
Sample ID: 672636005
Matrix: WG
Collect Date: 18-JUN-24 11:56
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3390	33.5	100	mg/L		500	RXB5	06/23/24	0951	2630581	1
Sulfate		425	66.5	200	mg/L		500					
Fluoride	J	0.287	0.165	4.00	mg/L		5	RXB5	06/22/24	2029	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1153	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.572	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1755	2630949	4
Calcium		156	0.400	1.00	mg/L	1.00	5					
Magnesium		218	0.0500	0.150	mg/L	1.00	5					
Potassium		64.0	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1438	2630949	5
Arsenic		0.0601	0.00200	0.00500	mg/L	1.00	1					
Barium		0.356	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.71	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0256	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.106	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000706	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1750	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1654	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6060	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		215	0.725	2.00	mg/L			JW2	06/21/24	1605	2630454	8
Bicarbonate alkalinity (CaCO3)		215	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	672636005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	672636006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3210	33.5	100	mg/L		500	RXB5	06/23/24	1022	2630581	1
Sulfate		399	66.5	200	mg/L		500					
Fluoride	J	0.330	0.165	4.00	mg/L		5	RXB5	06/22/24	2100	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1154	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.637	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1757	2630949	4
Calcium		126	0.400	1.00	mg/L	1.00	5					
Magnesium		210	0.0500	0.150	mg/L	1.00	5					
Potassium		66.9	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1441	2630949	5
Arsenic		0.0342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.258	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.514	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0358	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.155	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000624	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1730	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1656	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5980	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		259	0.725	2.00	mg/L			JW2	06/21/24	1607	2630454	8
Bicarbonate alkalinity (CaCO3)		259	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-01 Project: GPCC00105
Sample ID: 672636006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

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 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-02
Sample ID: 672636007
Matrix: WG
Collect Date: 18-JUN-24 16:03
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.488	0.165	4.00	mg/L		5	RXB5	06/22/24	2131	2630581	1
Chloride		2400	33.5	100	mg/L		500	RXB5	06/23/24	1053	2630581	2
Sulfate		320	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1156	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1445	2630949	4
Arsenic		0.0482	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0703	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.967	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0400	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0841	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000792	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.830	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1759	2630949	5
Calcium		88.3	0.400	1.00	mg/L	1.00	5					
Magnesium		144	0.0500	0.150	mg/L	1.00	5					
Potassium		59.2	0.400	1.50	mg/L	1.00	5					
Sodium		1490	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1658	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4740	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		318	0.725	2.00	mg/L			JW2	06/21/24	1609	2630454	8
Bicarbonate alkalinity (CaCO3)		318	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	672636007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-03
Sample ID: 672636008
Matrix: WG
Collect Date: 19-JUN-24 14:16
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.366	0.0330	4.00	mg/L		1	RXB5	06/22/24	1450	2630581	1
Chloride		1880	33.5	100	mg/L		500	RXB5	06/23/24	1124	2630581	2
Sulfate		268	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1157	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1700	2630949	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1448	2630949	5
Arsenic		0.0142	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0229	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.116	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0402	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.147	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000468	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.878	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1801	2630949	6
Calcium		57.9	0.400	1.00	mg/L	1.00	5					
Magnesium		96.9	0.0500	0.150	mg/L	1.00	5					
Potassium		50.7	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4010	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		343	0.725	2.00	mg/L			JW2	06/21/24	1612	2630454	8
Bicarbonate alkalinity (CaCO3)		339	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	672636008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)		4.00	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.713	0.330	4.00	mg/L		10	RXB5	06/25/24	2037	2630581	1
Sulfate		252	13.3	40.0	mg/L		100	RXB5	06/22/24	2202	2630581	2
Chloride		2230	33.5	100	mg/L		500	RXB5	06/24/24	1328	2630581	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1159	2630731	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.811	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1803	2630949	5
Calcium		84.6	0.400	1.00	mg/L	1.00	5					
Magnesium		139	0.0500	0.150	mg/L	1.00	5					
Potassium		57.0	0.400	1.50	mg/L	1.00	5					
Sodium		1410	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1702	2630949	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1452	2630949	7
Arsenic		0.0493	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0673	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.730	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0391	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0814	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000836	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4390	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		317	0.725	2.00	mg/L			JW2	06/21/24	1616	2630454	9
Bicarbonate alkalinity (CaCO3)		317	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-01
Sample ID: 672636010
Matrix: WQ
Collect Date: 18-JUN-24 18:20
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	06/22/24	2232	2630581	1
Fluoride	U	ND	0.0330	4.00	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1201	2630731	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1455	2630949	3
Arsenic	J	0.00499	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0143	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	J	0.0923	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	06/30/24	1211	2630949	4
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	4.00	2.38	10.0	mg/L			KLP1	06/25/24	1458	2631495	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	06/21/24	1616	2630454	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-01 Project: GPCC00105
Sample ID: 672636010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

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 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-EB-01
Sample ID: 672636011
Matrix: WQ
Collect Date: 18-JUN-24 18:06
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	06/22/24	2303	2630581	1
Fluoride	U	ND	0.0330	4.00	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1118	2631142	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1506	2630949	3
Arsenic	J	0.00392	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	06/30/24	1213	2630949	4
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	06/25/24	1458	2631495	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	06/21/24	1617	2630454	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	672636011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1120	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1510	2630949	2
Arsenic		0.00981	0.00200	0.00500	mg/L	1.00	1					
Barium		0.304	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.553	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0261	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.244	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00205	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.518	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1805	2630949	3
Calcium		222	0.400	1.00	mg/L	1.00	5					
Potassium		79.9	0.400	1.50	mg/L	1.00	5					
Magnesium		288	1.00	3.00	mg/L	1.00	100	PRB	06/29/24	1704	2630949	4
Sodium		2220	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	672636013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:15		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1121	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Sodium		1250	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1706	2630949	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1513	2630949	3
Arsenic		0.0897	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0560	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0661	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0412	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.102	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000389	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.676	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1807	2630949	4
Calcium		87.9	0.400	1.00	mg/L	1.00	5					
Magnesium		154	0.0500	0.150	mg/L	1.00	5					
Potassium		61.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	672636013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-01
Sample ID: 672636014
Matrix: WG
Collect Date: 19-JUN-24 10:20
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1123	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Sodium		1720	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1713	2630949	2
Boron		0.665	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1814	2630949	3
Calcium		170	0.400	1.00	mg/L	1.00	5					
Magnesium		231	0.0500	0.150	mg/L	1.00	5					
Potassium		72.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1517	2630949	4
Arsenic		0.0117	0.00200	0.00500	mg/L	1.00	1					
Barium		0.671	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0226	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.265	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000358	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	672636014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	672636015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 15:57		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1125	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1520	2630949	2
Arsenic		0.0146	0.00200	0.00500	mg/L	1.00	1					
Barium		0.498	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.89	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0181	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.339	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000249	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.554	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1816	2630949	3
Calcium		151	0.400	1.00	mg/L	1.00	5					
Magnesium		219	0.0500	0.150	mg/L	1.00	5					
Potassium		63.7	0.400	1.50	mg/L	1.00	5					
Sodium		1660	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1715	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	672636015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	672636016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:56		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1126	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1524	2630949	2
Arsenic		0.0469	0.00200	0.00500	mg/L	1.00	1					
Barium		0.351	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0173	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.925	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0256	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.105	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000620	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.596	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1818	2630949	3
Calcium		165	0.400	1.00	mg/L	1.00	5					
Magnesium		234	0.0500	0.150	mg/L	1.00	5					
Potassium		67.4	0.400	1.50	mg/L	1.00	5					
Sodium		1810	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1717	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	672636016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	672636017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1128	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1527	2630949	2
Arsenic		0.0311	0.00200	0.00500	mg/L	1.00	1					
Barium		0.241	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.319	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0344	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.142	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000424	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.643	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1820	2630949	3
Calcium		129	0.400	1.00	mg/L	1.00	5					
Magnesium		216	0.0500	0.150	mg/L	1.00	5					
Potassium		67.8	0.400	1.50	mg/L	1.00	5					
Sodium		1740	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1719	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	672636017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	672636018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 16:03		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1129	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1531	2630949	2
Arsenic		0.0481	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0752	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.237	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0408	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0835	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000505	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1440	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1721	2630949	3
Boron		0.808	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1822	2630949	4
Calcium		87.7	0.400	1.00	mg/L	1.00	5					
Magnesium		143	0.0500	0.150	mg/L	1.00	5					
Potassium		57.8	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	672636018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	672636019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:16		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1135	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1723	2630949	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1535	2630949	3
Arsenic		0.0136	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0231	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0657	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0400	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.147	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000306	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.880	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1824	2630949	4
Calcium		57.1	0.400	1.00	mg/L	1.00	5					
Magnesium		95.7	0.0500	0.150	mg/L	1.00	5					
Potassium		50.2	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	672636019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1136	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Boron		0.782	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1826	2630949	2
Calcium		87.2	0.400	1.00	mg/L	1.00	5					
Magnesium		140	0.0500	0.150	mg/L	1.00	5					
Potassium		56.3	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1538	2630949	3
Arsenic		0.0449	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0731	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0386	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0798	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000542	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1400	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1725	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 11, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2630581													
QC1205769497 672636001 DUP													
Chloride			4710		4730	mg/L	0.44			(0%-20%)	RXB5	06/23/24	05:44
Fluoride		U	ND	U	ND	mg/L	N/A					06/22/24	16:22
Sulfate			556		557	mg/L	0.18	^		(+/-200)		06/23/24	05:44
QC1205769494 LCS													
Chloride	5.00				4.60	mg/L			92	(90%-110%)		06/22/24	14:19
Fluoride	2.50				2.39	mg/L			95.4	(90%-110%)			
Sulfate	10.0				9.39	mg/L			93.9	(90%-110%)			
QC1205769493 MB													
Chloride				U	ND	mg/L						06/22/24	13:48
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							
QC1205769498 672636001 PS													
Chloride	5.00		9.43		15.1	mg/L			114*	(90%-110%)		06/23/24	06:15
Fluoride	2.50	U	ND		2.29	mg/L			91.8	(90%-110%)		06/22/24	16:53
Sulfate	10.0		1.11		10.5	mg/L			93.6	(90%-110%)		06/23/24	06:15

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
QC1205770462 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	06/29/24 13:58
Arsenic	0.0500			0.0488	mg/L		97.7	(80%-120%)		
Barium	0.0500			0.0506	mg/L		101	(80%-120%)		
Beryllium	0.0500			0.0502	mg/L		100	(80%-120%)		
Boron	0.100			0.102	mg/L		102	(80%-120%)		06/29/24 16:33
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		06/29/24 13:58
Calcium	2.00			2.10	mg/L		105	(80%-120%)		06/29/24 16:33
Chromium	0.0500			0.0475	mg/L		94.9	(80%-120%)		06/29/24 13:58
Cobalt	0.0500			0.0479	mg/L		95.8	(80%-120%)		
Iron	2.00			1.89	mg/L		94.3	(80%-120%)		
Lead	0.0500			0.0503	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0476	mg/L		95.1	(80%-120%)		
Magnesium	2.00			1.96	mg/L		98.2	(80%-120%)		06/29/24 16:33
Manganese	0.0500			0.0474	mg/L		94.8	(80%-120%)		06/29/24 13:58

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
Molybdenum	0.0500			0.0526	mg/L		105	(80%-120%)	PRB	06/29/24 13:58
Potassium	2.00			1.92	mg/L		96.1	(80%-120%)		06/29/24 16:33
Selenium	0.0500			0.0491	mg/L		98.2	(80%-120%)		06/29/24 13:58
Sodium	2.00			2.03	mg/L		101	(80%-120%)		06/29/24 16:33
Thallium	0.0500			0.0477	mg/L		95.3	(80%-120%)		06/29/24 13:58
QC1205770461 MB										
Antimony			U	ND	mg/L					06/29/24 13:55
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					06/29/24 16:31
Cadmium			U	ND	mg/L					06/29/24 13:55
Calcium			U	ND	mg/L					06/29/24 16:31
Chromium			U	ND	mg/L					06/29/24 13:55
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
Iron			U	ND	mg/L				PRB	06/29/24 13:55
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					06/29/24 16:31
Manganese			U	ND	mg/L					06/29/24 13:55
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					06/29/24 16:31
Selenium			U	ND	mg/L					06/29/24 13:55
Sodium			U	ND	mg/L					06/29/24 16:31
Thallium			U	ND	mg/L					06/29/24 13:55
QC1205770463 672636001 MS										
Antimony	0.0500	U	ND	0.0485	mg/L		96.7	(75%-125%)		06/29/24 14:06
Arsenic	0.0500		0.00780	0.0530	mg/L		90.4	(75%-125%)		
Barium	0.0500		0.282	0.337	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0439	mg/L		87.8	(75%-125%)		

QC Summary

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2630949											
Boron	0.100		0.519		0.625	mg/L		N/A	(75%-125%)	PRB	06/29/24 17:36
Cadmium	0.0500	U	ND		0.0447	mg/L		89.4	(75%-125%)		06/29/24 14:06
Calcium	2.00		234		235	mg/L		N/A	(75%-125%)		06/29/24 17:36
Chromium	0.0500	U	ND		0.0458	mg/L		88.7	(75%-125%)		06/29/24 14:06
Cobalt	0.0500	U	ND		0.0427	mg/L		85.3	(75%-125%)		
Iron	2.00		0.709		2.42	mg/L		85.7	(75%-125%)		
Lead	0.0500	U	ND		0.0440	mg/L		87.9	(75%-125%)		
Lithium	0.0500		0.0258		0.0671	mg/L		82.6	(75%-125%)		
Magnesium	2.00		314		317	mg/L		N/A	(75%-125%)		06/29/24 16:37
Manganese	0.0500		0.238		0.283	mg/L		N/A	(75%-125%)		06/29/24 14:06
Molybdenum	0.0500	J	0.000475		0.0560	mg/L		111	(75%-125%)		
Potassium	2.00		83.6		86.1	mg/L		N/A	(75%-125%)		06/29/24 17:36
Selenium	0.0500	J	0.00158		0.0319	mg/L		60.7*	(75%-125%)		06/29/24 14:06
Sodium	2.00		2390		2420	mg/L		N/A	(75%-125%)		06/29/24 16:37

QC Summary

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2630949											
Thallium	0.0500	U	ND		0.0428	mg/L		85.7	(75%-125%)	PRB	06/29/24 14:06
QC1205770464 672636001 MSD											
Antimony	0.0500	U	ND		0.0487	mg/L	0.457	97.1	(0%-20%)		06/29/24 14:09
Arsenic	0.0500		0.00780		0.0529	mg/L	0.217	90.2	(0%-20%)		
Barium	0.0500		0.282		0.341	mg/L	1.24	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0437	mg/L	0.486	87.4	(0%-20%)		
Boron	0.100		0.519		0.618	mg/L	1.08	N/A	(0%-20%)		06/29/24 17:38
Cadmium	0.0500	U	ND		0.0450	mg/L	0.559	89.9	(0%-20%)		06/29/24 14:09
Calcium	2.00		234		235	mg/L	0.104	N/A	(0%-20%)		06/29/24 17:38
Chromium	0.0500	U	ND		0.0458	mg/L	0.00218	88.7	(0%-20%)		06/29/24 14:09
Cobalt	0.0500	U	ND		0.0426	mg/L	0.23	85.1	(0%-20%)		
Iron	2.00		0.709		2.45	mg/L	1.13	87.1	(0%-20%)		
Lead	0.0500	U	ND		0.0434	mg/L	1.23	86.9	(0%-20%)		
Lithium	0.0500		0.0258		0.0677	mg/L	0.958	83.9	(0%-20%)		
Magnesium	2.00		314		312	mg/L	1.58	N/A	(0%-20%)		06/29/24 16:39

QC Summary

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2630949											
Manganese	0.0500		0.238		0.286	mg/L	1.19	N/A	(0%-20%)	PRB	06/29/24 14:09
Molybdenum	0.0500	J	0.000475		0.0554	mg/L	1.2	110	(0%-20%)		
Potassium	2.00		83.6		85.5	mg/L	0.732	N/A	(0%-20%)		06/29/24 17:38
Selenium	0.0500	J	0.00158		0.0308	mg/L	3.59	58.4*	(0%-20%)		06/29/24 14:09
Sodium	2.00		2390		2380	mg/L	1.82	N/A	(0%-20%)		06/29/24 16:39
Thallium	0.0500	U	ND		0.0422	mg/L	1.56	84.4	(0%-20%)		06/29/24 14:09
QC1205776174 672636001 PS											
Selenium	50.0	J	1.58		49.5	ug/L		95.9	(75%-125%)		06/29/24 14:13
QC1205770465 672636001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Arsenic			7.80	J	3.09	ug/L	98.4		(0%-20%)		
Barium			282		58.2	ug/L	3.31		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			104		22.9	ug/L	10.4		(0%-20%)		06/29/24 17:43
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Calcium			46800		9490	ug/L	1.39		(0%-20%)		06/29/24 17:43

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	06/29/24 14:16
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		709		148	ug/L	4.19		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		25.8	J	5.34	ug/L	3.49		(0%-20%)		
Magnesium		3140		601	ug/L	4.49		(0%-20%)		06/29/24 16:41
Manganese		238		50.2	ug/L	5.45		(0%-20%)		06/29/24 14:16
Molybdenum	J	0.475	U	ND	ug/L	N/A		(0%-20%)		
Potassium		16700		3460	ug/L	3.52		(0%-20%)		06/29/24 17:43
Selenium	J	1.58	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Sodium		23900		4750	ug/L	.74		(0%-20%)		06/29/24 16:41
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Metals Analysis-Mercury										
Batch 2630731										
QC1205769930 672641005 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	06/25/24 12:12

QC Summary

Workorder: 672636

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury														
Batch 2630731														
QC1205769929 LCS														
Mercury			0.00200				0.00201	mg/L		100	(80%-120%)	JP2	06/25/24	11:33
QC1205769928 MB														
Mercury						U	ND	mg/L					06/25/24	11:31
QC1205769931	672641005	MS												
Mercury			0.00200	U	ND		0.00200	mg/L		100	(75%-125%)		06/25/24	12:14
QC1205769932	672641005	SDILT												
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		06/25/24	12:16
Batch 2631142														
QC1205770984	672344001	DUP												
Mercury				U	ND	U	ND	mg/L	N/A			JP2	06/26/24	11:00
QC1205770983 LCS														
Mercury			0.00200				0.00192	mg/L		96	(80%-120%)		06/26/24	10:57
QC1205770982 MB														
Mercury						U	ND	mg/L					06/26/24	10:55
QC1205770985	672344001	MS												
Mercury			0.00200	U	ND		0.00194	mg/L		96.8	(75%-125%)		06/26/24	11:02
QC1205770986	672344001	SDILT												
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		06/26/24	11:03
Solids Analysis														
Batch 2631495														
QC1205771674	672638006	DUP												
Total Dissolved Solids					1090		1100	mg/L	0.458		(0%-5%)	KLP1	06/25/24	14:58

QC Summary

Workorder: 672636

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2631495										
QC1205771673 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)	KLP1	06/25/24 14:58
QC1205771672 MB										
Total Dissolved Solids			U	ND	mg/L					06/25/24 14:58
Batch 2632103										
QC1205772840 672534002 DUP										
Total Dissolved Solids		359		352	mg/L	1.97		(0%-5%)	KLP1	06/26/24 13:13
QC1205772839 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		06/26/24 13:13
QC1205772838 MB										
Total Dissolved Solids			U	ND	mg/L					06/26/24 13:13
Titration and Ion Analysis										
Batch 2630454										
QC1205769402 672636001 DUP										
Alkalinity, Total as CaCO3		231		231	mg/L	0.173		(0%-20%)	JW2	06/21/24 15:57
Bicarbonate alkalinity (CaCO3)		231		231	mg/L	0.173		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205769427 672636008 DUP										
Alkalinity, Total as CaCO3		343		344	mg/L	0.116		(0%-20%)		06/21/24 16:13
Bicarbonate alkalinity (CaCO3)		339		339	mg/L	0		(0%-20%)		
Carbonate alkalinity (CaCO3)		4.00		4.40	mg/L	9.52	^	(+/-2.00)		

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2630454											
QC1205769300 LCS											
Alkalinity, Total as CaCO3	50.0			51.1	mg/L		102	(90%-110%)	JW2	06/21/24	15:45
QC1205769301 LCS											
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		06/21/24	15:47
QC1205769405 672636008 MS											
Alkalinity, Total as CaCO3	50.0	343		394	mg/L		N/A	(80%-120%)		06/21/24	16:15
QC1205769428 672636001 MS											
Alkalinity, Total as CaCO3	50.0	231		282	mg/L		N/A	(80%-120%)		06/21/24	15:58

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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

QC Summary

Workorder: **672636**

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Technical Case Narrative
Georgia Power Company
SDG #: 672636

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2630949

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2630948

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
672636012	MCM-INW-01
672636013	MCM-MCM-06
672636014	MCM-PT-01
672636015	MCM-PT-02
672636016	MCM-PT-03
672636017	MCM-DR-01
672636018	MCM-DR-02
672636019	MCM-DR-03
672636020	MCM-AP1-FD-01
1205770461	Method Blank (MB)**ICP-MS**
1205770462	Laboratory Control Sample (LCS)
1205770465	672636001(MCM-INW-01L) Serial Dilution (SD)
1205770463	672636001(MCM-INW-01S) Matrix Spike (MS)
1205770464	672636001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1205776174	672636001(MCM-INW-01PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205770463 (MCM-INW-01MS)	Selenium	60.7* (75%-125%)
1205770464 (MCM-INW-01MSD)	Selenium	58.4* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01), 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02), 672636008 (MCM-DR-03), 672636009 (MCM-AP1-FD-01), 672636012 (MCM-INW-01), 672636013 (MCM-MCM-06), 672636014 (MCM-PT-01), 672636015 (MCM-PT-02), 672636016 (MCM-PT-03), 672636017 (MCM-DR-01), 672636018 (MCM-DR-02), 672636019 (MCM-DR-03) and 672636020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	672636									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	100X	5X	5X	5X	5X	5X	5X	5X	5X	100X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X

Analyte	672636							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2630731

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2630725

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
1205769928	Method Blank (MB)**CVAA**
1205769929	Laboratory Control Sample (LCS)
1205769932	672641005(NonSDGL) Serial Dilution (SD)
1205769930	672641005(NonSDGD) Sample Duplicate (DUP)
1205769931	672641005(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# 40
Analytical Batch: 2631142

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2631141

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

GEL Sample ID#	Client Sample Identification
672636011	MCM-AP1-EB-01
672636012	MCM-INW-01
672636013	MCM-MCM-06
672636014	MCM-PT-01
672636015	MCM-PT-02
672636016	MCM-PT-03
672636017	MCM-DR-01

672636018	MCM-DR-02
672636019	MCM-DR-03
672636020	MCM-AP1-FD-01
1205770982	Method Blank (MB)**CVAA**
1205770983	Laboratory Control Sample (LCS)
1205770986	672344001(NonSDGL) Serial Dilution (SD)
1205770984	672344001(NonSDGD) Sample Duplicate (DUP)
1205770985	672344001(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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2630581

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
1205769493	Method Blank (MB)
1205769494	Laboratory Control Sample (LCS)
1205769497	672636001(MCM-INW-01) Sample Duplicate (DUP)
1205769498	672636001(MCM-INW-01) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205769498 (MCM-INW-01PS)	114* (90%-110%)

Technical Information

Sample Dilutions
The following samples 672636008 (MCM-DR-03) and 672636009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205769497 (MCM-INW-01DUP), 1205769498 (MCM-INW-01PS), 672636001 (MCM-INW-01) and 672636009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01), 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02) and 672636009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	672636								
	001	002	003	004	005	006	007	008	009
Chloride	500X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	5X	5X	5X	5X	5X	5X	5X	1X	10X
Sulfate	500X	500X	500X	500X	500X	500X	500X	500X	100X

Miscellaneous Information

Manual Integrations
Samples 1205769497 (MCM-INW-01DUP), 1205769498 (MCM-INW-01PS), 672636001 (MCM-INW-01) and 672636008 (MCM-DR-03) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2631495

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

GEL Sample ID#	Client Sample Identification
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
1205771672	Method Blank (MB)
1205771673	Laboratory Control Sample (LCS)
1205771674	672638006(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to matrix interference. 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02) and 672636009 (MCM-AP1-FD-01). A TDS meter was used to check the samples for interference prior to analysis. 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02) and 672636009 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2632103

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636008	MCM-DR-03
1205772838	Method Blank (MB)
1205772839	Laboratory Control Sample (LCS)
1205772840	672534002(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to matrix interference. 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01) and 672636008 (MCM-DR-03). A TDS meter was used to check the samples for interference prior to analysis. 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01) and 672636008 (MCM-DR-03).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2630454

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
1205769300	Laboratory Control Sample (LCS)
1205769301	Laboratory Control Sample (LCS)
1205769402	672636001(MCM-INW-01) Sample Duplicate (DUP)
1205769405	672636008(MCM-DR-03) Matrix Spike (MS)
1205769427	672636008(MCM-DR-03) Sample Duplicate (DUP)
1205769428	672636001(MCM-INW-01) 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.

Project # GPCC00105
GEL Quote #: GELP22-0819
TOC Number [1]:
PO Number:

672636

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	6/19/24	1410	G	Y*	WG			3	X	X	X	X	X	Comments: Note: extra sample is required for sample specific QC
MCM-MCM-06	6/19/24	1015	G	Y*	WG			3	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	6/19/24	1020	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-02	6/18/24	1557	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-03	6/18/24	1156	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-01	6/18/24	1133	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-02	6/18/24	1603	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-03	6/19/24	1416	G	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FD-01	6/18/24	—	FD	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FB-01	6/18/24	1820	FB	N	WQ			2	X		X	X	X	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental			1		
2		6/21/24	9:22	2 Thyasia Tatum	6/21/24	922
3				3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	6/18/24	1816	EB	N	WQ			5	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2	6/21/24	9:22	2	6/21/24	0922
3			3		

TAT Requested: **Normal: X** **Rush:** **Specify:** **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

672636

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: STACY BOONE	Date Received: JUNE 21, 2024
	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 connected 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: 1.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers 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 WJ Date 6/24/24 Page 1 of 1

List of current GEL Certifications as of 11 July 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 7/10/2024 6:06:24 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation

JOB NUMBER

680-252405-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Eurofins Savannah

Job Notes

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

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

Authorization

Generated
7/10/2024 6:06:24 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-252405-1
Project/Site: Plant McManus - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-252405-1	MCM-INW-01	Water	06/19/24 14:10	06/21/24 11:21
680-252405-2	MCM-MCM-06	Water	06/19/24 10:15	06/21/24 11:21
680-252405-3	MCM-PT-01	Water	06/19/24 10:20	06/21/24 11:21
680-252405-4	MCM-PT-02	Water	06/18/24 15:57	06/21/24 11:21
680-252405-5	MCM-PT-03	Water	06/18/24 11:56	06/21/24 11:21
680-252405-6	MCM-DR-01	Water	06/18/24 11:33	06/21/24 11:21
680-252405-7	MCM-DR-02	Water	06/18/24 16:03	06/21/24 11:21
680-252405-8	MCM-DR-03	Water	06/19/24 14:16	06/21/24 11:21
680-252405-9	MCM-AP1-FD-01	Water	06/18/24 00:00	06/21/24 11:21

Job ID: 680-252405-1 — Eurofins Savannah

Job Narrative
680-252405-1

Receipt
The samples were received on 6/21/2024 11:21 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 1.1° C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

July 10, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-252405-1

Dear David Fuller,

On June 25, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 7.5°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

BAL strongly recommends that all samples submitted for arsenic speciation remain at a temperature of ≤ 6°C to maintain sample integrity prior to analysis. Consequently, the As speciation results were qualified (**Z**), indicating that the samples were received above the recommended temperature.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-252405-1)	2406318-01	Water	Sample	06/19/2024	06/25/2024
MCM-MCM-06 (680-252405-2)	2406318-02	Water	Sample	06/19/2024	06/25/2024
MCM-PT-01 (680-252405-3)	2406318-03	Water	Sample	06/19/2024	06/25/2024
MCM-PT-02 (680-252405-4)	2406318-04	Water	Sample	06/18/2024	06/25/2024
MCM-PT-03 (680-252405-5)	2406318-05	Water	Sample	06/18/2024	06/25/2024
MCM-DR-01 (680-252405-6)	2406318-06	Water	Sample	06/18/2024	06/25/2024
MCM-DR-02 (680-252405-7)	2406318-07	Water	Sample	06/18/2024	06/25/2024
MCM-DR-03 (680-252405-8)	2406318-08	Water	Sample	06/19/2024	06/25/2024
MCM-AP1-FD-01 (680-252405-9)	2406318-09	Water	Field Duplicate	06/18/2024	06/25/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	06/25/24	06/26/24	B241457	S240612
As(V)	Water	SOP BAL-4100	ISO,TNI	06/25/24	06/26/24	B241457	S240612
DMAs	Water	SOP BAL-4100	ISO	06/25/24	06/26/24	B241457	S240612
MMAs	Water	SOP BAL-4100	ISO	06/25/24	06/26/24	B241457	S240612
Unk As Sp	Water	SOP BAL-4100		06/25/24	06/26/24	B241457	S240612

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-252405-1)										
2406318-01	As(III)	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-01	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-01	DMAs	Water	D	≤ 1.00	U Z	1.00	4.20	µg/L	B241457	S240612
2406318-01	MMAs	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-01	Unk As Sp	Water	D	2.76	Z J	1.00	4.20	µg/L	B241457	S240612
MCM-MCM-06 (680-252405-2)										
2406318-02	As(III)	Water	D	0.928	Z J	0.800	4.20	µg/L	B241457	S240612
2406318-02	As(V)	Water	D	≤ 2.00	U Z	2.00	4.20	µg/L	B241457	S240612
2406318-02	DMAs	Water	D	≤ 1.00	U Z	1.00	4.20	µg/L	B241457	S240612
2406318-02	MMAs	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-02	Unk As Sp	Water	D	121	Z	1.00	4.20	µg/L	B241457	S240612
MCM-PT-01 (680-252405-3)										
2406318-03	As(III)	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-03	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-03	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-03	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-03	Unk As Sp	Water	D	8.48	Z	1.00	4.20	µg/L	B241457	S240612
MCM-PT-02 (680-252405-4)										
2406318-04	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-04	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-04	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-04	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-04	Unk As Sp	Water	D	19.7	Z	1.00	4.20	µg/L	B241457	S240612
MCM-PT-03 (680-252405-5)										
2406318-05	As(III)	Water	D	4.20	Z J	0.800	4.20	µg/L	B241457	S240612
2406318-05	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-05	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-05	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-05	Unk As Sp	Water	D	81.0	Z	1.00	4.20	µg/L	B241457	S240612

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-252405-6)										
2406318-06	As(III)	Water	D	1.36	Z J	0.800	4.20	µg/L	B241457	S240612
2406318-06	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-06	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-06	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-06	Unk As Sp	Water	D	35.9	Z	1.00	4.20	µg/L	B241457	S240612
MCM-DR-02 (680-252405-7)										
2406318-07	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-07	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-07	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-07	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-07	Unk As Sp	Water	D	66.2	Z	1.00	4.20	µg/L	B241457	S240612
MCM-DR-03 (680-252405-8)										
2406318-08	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-08	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-08	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-08	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-08	Unk As Sp	Water	D	13.5	Z	1.00	4.20	µg/L	B241457	S240612
MCM-AP1-FD-01 (680-252405-9)										
2406318-09	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-09	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-09	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-09	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-09	Unk As Sp	Water	D	66.8	Z	1.00	4.20	µg/L	B241457	S240612

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Accuracy & Precision Summary

Batch: B241457
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B241457-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.406	µg/L	108% 75-125	
	As(V)		5.000	5.107	µg/L	102% 75-125	
B241457-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.577	µg/L	112% 75-125	
	MMAs		4.400	4.626	µg/L	105% 75-125	
B241457-DUP3	**Duplicate, (2406318-09)**						
	As(III)	ND		ND	µg/L		N/C 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	66.75		67.74	µg/L		1% 25
B241457-MS3	**Matrix Spike, (2406318-09)**						
	As(III)	ND	209.0	255.2	µg/L	122% 75-125	
	As(V)	ND	194.2	235.4	µg/L	121% 75-125	
	DMAs	ND	222.2	268.9	µg/L	121% 75-125	
	MMAs	ND	200.0	242.8	µg/L	121% 75-125	
B241457-MSD3	**Matrix Spike Duplicate, (2406318-09)**						
	As(III)	ND	209.0	255.7	µg/L	122% 75-125	0.2% 25
	As(V)	ND	194.2	236.3	µg/L	122% 75-125	0.4% 25
	DMAs	ND	222.2	268.8	µg/L	121% 75-125	0.02% 25
	MMAs	ND	200.0	239.8	µg/L	120% 75-125	1% 25

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Method Blanks & Reporting Limits

Batch: B241457
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B241457-BLK1	0.002	µg/L
B241457-BLK2	0.001	µg/L
B241457-BLK3	0.0004	µg/L
B241457-BLK4	0.001	µg/L

Average: 0.001
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Sample Containers

Lab ID: 2406318-01 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-INW-01 (680-252405-1) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-02 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-MCM-06 (680-252405-2) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-03 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-PT-01 (680-252405-3) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-04 **Report Matrix:** Water **Collected:** 06/18/2024
Sample: MCM-PT-02 (680-252405-4) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

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Sample Containers

Lab ID: 2406318-05 **Report Matrix:** Water **Collected:** 06/18/2024
Sample: MCM-PT-03 (680-252405-5) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-06 **Report Matrix:** Water **Collected:** 06/18/2024
Sample: MCM-DR-01 (680-252405-6) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-07 **Report Matrix:** Water **Collected:** 06/18/2024
Sample: MCM-DR-02 (680-252405-7) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-08 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-DR-03 (680-252405-8) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

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Sample Containers

Lab ID: 2406318-09
Sample: MCM-AP1-FD-01 (680-252405-9)
Report Matrix: Water
Sample Type: Field Duplicate
Collected: 06/18/2024
Received: 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Shipping Containers

Cooler - 2406318

Received: June 25, 2024 10:00
Tracking No: 6881 2504 0130 via FedEx
Coolant Type: Ice
Temperature: 7.5 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

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Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2406318

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7/10/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-775638.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-252405-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 7/10/2024	Analysis Requested		Preservation Codes:
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus	Project #: 68027841			
Site:	SSOW#:			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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-252405-1)	6/19/24	14:10 Eastern		Water			X	2	
MCM-MCM-06 (680-252405-2)	6/19/24	10:15 Eastern		Water			X	2	
MCM-PT-01 (680-252405-3)	6/19/24	10:20 Eastern		Water			X	2	
MCM-PT-02 (680-252405-4)	6/18/24	15:57 Eastern		Water			X	2	
MCM-PT-03 (680-252405-5)	6/18/24	11:56 Eastern		Water			X	2	
MCM-DR-01 (680-252405-6)	6/18/24	11:33 Eastern		Water			X	2	
MCM-DR-02 (680-252405-7)	6/18/24	16:03 Eastern		Water			X	2	
MCM-DR-03 (680-252405-8)	6/19/24	14:16 Eastern		Water			X	2	
MCM-AP1-FD-01 (680-252405-9)	6/18/24	Eastern		Water			X	2	

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	*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: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 6/24/24 1600	Company	Received by: GHS	Date/Time: 6/25/24 10:00	Company BAL		
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:

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company ~~Kristen Jurinko~~ NO 6/19/24
Contact: Kristen Jurinko
Client Project ID: _____
Samples Collected By: Jay Sievert, Natalie Piparo

PO Number: _____
Phone: (404) 506-7116
Email: knjurink@southernco.com

Mailing Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
☐ 20 (standard)
☐ 15*
☐ 10*
☐ 5*
☐ Other ____
*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	6/19/24	1410	W G	2	Y					X					
2	MCM-MCM-06	6/19/24	1015	W G	2	Y					X					
3	~~MCM-MCM-06~~ NO 6/19/24			W G	2	Y					X					
4	MCM-PT-01	6/19/24	1020	W G	2	Y					X					
5	MCM-PT-02	6/18/24	1557	W G	2	Y					X					
6	MCM-PT-03	6/18/24	1156	W G	2	Y					X					
7	MCM-DR-01	6/18/24	~~1603~~ 1153 NO 6/19/24	W G	2	Y					X					
8	MCM-DR-02	6/18/24	1603	W G	2	Y					X					
9	MCM-DR-03	6/19/24	1416	W G	2	Y					X					
10	MCM-API-FD-01	6/18/24	—	W G	2	Y					X					
	Trip Blank															

680-252405 Chain of Custody

Relinquished By: Jay Sievert	Date: 6/21/24	Time: 1121	Relinquished By:
Received By:	Date: 6/21/24	Time: 1121	Total Number of Packages: 1.0/1.1

Page ____ of ____ List Hazardous Contaminants: _____

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-252405-1

Login Number: 252405

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 6/26/2024 4:52:40 PM

JOB DESCRIPTION

Plant McManus Dike Baseline Sampling 2024-06

JOB NUMBER

680-252370-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

Generated
6/26/2024 4:52:40 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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

Sample Summary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-252370-1	MCM-INW-01	Water	06/19/24 14:10	06/21/24 11:21
680-252370-2	MCM-MCM-06	Water	06/19/24 10:15	06/21/24 11:21
680-252370-3	MCM-PT-01	Water	06/19/24 10:20	06/21/24 11:21
680-252370-4	MCM-PT-02	Water	06/18/24 15:57	06/21/24 11:21
680-252370-5	MCM-PT-03	Water	06/18/24 11:56	06/21/24 11:21
680-252370-6	MCM-DR-01	Water	06/18/24 11:33	06/21/24 11:21
680-252370-7	MCM-DR-02	Water	06/18/24 16:03	06/21/24 11:21
680-252370-8	MCM-DR-03	Water	06/19/24 14:16	06/21/24 11:21
680-252370-9	MCM-AP1-FD-01	Water	06/18/24 00:00	06/21/24 11:21
680-252370-10	MCM-AP1-FB-01	Water	06/18/24 18:20	06/21/24 11:21
680-252370-11	MCM-AP1-EB-01	Water	06/18/24 18:06	06/21/24 11:21

Job ID: 680-252370-1 — Eurofins Savannah

Job Narrative
680-252370-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

Receipt
The samples were received on 6/21/2024 11:21 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 1.6°C.

General Chemistry
Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-844120 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-252370-1
Date Collected: 06/19/24 14:10
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-252370-2
Date Collected: 06/19/24 10:15
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-252370-3
Date Collected: 06/19/24 10:20
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-252370-4
Date Collected: 06/18/24 15:57
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	16	F1	0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-252370-5
Date Collected: 06/18/24 11:56
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		1.0	1.0	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-252370-6
Date Collected: 06/18/24 11:33
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-252370-7
Date Collected: 06/18/24 16:03
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.81	0.81	mg/L			06/25/24 15:00	1

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-252370-8
Date Collected: 06/19/24 14:16
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	15		1.0	1.0	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-252370-9
Date Collected: 06/18/24 00:00
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	40		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-252370-10
Date Collected: 06/18/24 18:20
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-252370-11
Date Collected: 06/18/24 18:06
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			06/25/24 15:00	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-844120/1
Matrix: Water
Analysis Batch: 844120

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			06/25/24 15:00	1

Lab Sample ID: LCS 680-844120/2
Matrix: Water
Analysis Batch: 844120

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	10.7		mg/L		107	75 - 125

Lab Sample ID: LCSD 680-844120/3
Matrix: Water
Analysis Batch: 844120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	10.5		mg/L		105	75 - 125	2	30

Lab Sample ID: 680-252370-4 MS
Matrix: Water
Analysis Batch: 844120

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	16	F1	6.50	19.3	F1	mg/L		51	75 - 125

Lab Sample ID: 680-252370-4 MSD
Matrix: Water
Analysis Batch: 844120

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	16	F1	6.50	19.3	F1	mg/L		51	75 - 125	0	30

Lab Sample ID: 680-252370-1 DU
Matrix: Water
Analysis Batch: 844120

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	13		13.8		mg/L		9	30

QC Association Summary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

General Chemistry

Analysis Batch: 844120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-252370-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-252370-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-252370-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-252370-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-252370-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-252370-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-252370-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-252370-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-252370-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-252370-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-252370-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-844120/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-844120/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-844120/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-252370-4 MS	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-252370-4 MSD	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-252370-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-252370-1
Date Collected: 06/19/24 14:10
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-252370-2
Date Collected: 06/19/24 10:15
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-252370-3
Date Collected: 06/19/24 10:20
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-252370-4
Date Collected: 06/18/24 15:57
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-252370-5
Date Collected: 06/18/24 11:56
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	250 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-252370-6
Date Collected: 06/18/24 11:33
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-252370-7
Date Collected: 06/18/24 16:03
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-252370-8
Date Collected: 06/19/24 14:16
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	250 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-252370-9
Date Collected: 06/18/24 00:00
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-252370-10
Date Collected: 06/18/24 18:20
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-252370-11
Date Collected: 06/18/24 18:06
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-24

Method Summary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Jay Siewert, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 2
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Dike Baseline Sampling 2024-06	Project #:			
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:

Task_Code: MCM-CCR-CA-20240617

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	6/19/24	1410	G	WG	N		X		
MCM-MCM-06	6/19/24	1015 ~~1116~~ NP 6/19/24	G	WG	N		X		
MCM-PT-01	6/19/24	1020	G	WG	N		X		
MCM-PT-02	6/18/24	1557	G	WG	N		X		
MCM-PT-03	6/18/24	1156	G	WG	N		X		
MCM-DR-01	6/18/24	1133	G	WG	N		X		
MCM-DR-02	6/18/24	1603	G	WG	N		X		
MCM-DR-03	6/19/24	1416	G	WG	N		X		
MCM-AP1-FD-01	6/18/24	—	G	WG	N		X		
MCM-AP1-FB-01	6/18/24	1820	G	WQ	N		X		
MCM-AP1-EB-01	6/18/24	1806	G	WQ	N		X		

680-252370 Chain of Custody

Possible Hazard Identification
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jay Siewert	6/21/24 1121			06 21 24 1121	
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: 1.5/1.6

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-252370-1

Login Number: 252370

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 7/23/24

Calibrated By: Natalie Piparo

Field Conditions: H91 L75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989619
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0719	Time Finish	0732		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.45	26.34	± 10%	NA
Specific Conductance (µS/cm)	4,490	4443.4	26.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	26.57	± 0.1	GWMP
pH (SU)	7.00	6.96	26.84	± 0.1	GWMP
pH (SU)	10.00	10.03	27.02	± 0.1	GWMP
ORP (mV)	228.0	219.5	27.05	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.06	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	10.02		

Calibration Check					
Time Start	1552	Time Finish	1603		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4314.1	35.60	± 10% of standard	EPA 2023
pH (SU)	4.00	4.11	35.52	± 0.1	GWMP
pH (SU)	7.00	7.07	~~35.53~~ 35.25	± 0.1	GWMP
pH (SU)	10.00	10.13	35.45	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.08	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.10		

Notes:

Site Name: [illegible]

Field Instrumentation Calibration Form

Date: 7/23/24

Calibrated By: KWS

Field Conditions: 90°/75° Mostly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989635
Turbidity Meter	LaMotte 2020	4429-4417

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0731	Time Finish	753		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	95.96	26.27	± 10%	NA
Specific Conductance (µS/cm)	4,490	4577.1	27.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	27.24	± 0.1	GWMP
pH (SU)	7.00	6.98	27.32	± 0.1	GWMP
pH (SU)	10.00	9.84	27.48	± 0.1	GWMP
ORP (mV)	228.0	248.3	27.43	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.19	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.07		

Calibration Check					
Time Start	1556	Time Finish	1604		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4489	34.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	34.57	± 0.1	GWMP
pH (SU)	7.00	7.10	34.32	± 0.1	GWMP
pH (SU)	10.00	10.06	34.31	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.03		

Notes:

Low-Flow Test Report:

Test Date / Time: 7/23/2024 12:42:52 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 3.83 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 4 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 12:42 PM	00:00	6.63 pH	26.60 °C	15,432 µS/cm	0.12 mg/L	2.97 NTU	-208.0 mV	4.04 ft	9.13 PSU	300.00 ml/min
7/23/2024 12:47 PM	05:00	6.63 pH	26.60 °C	15,503 µS/cm	0.10 mg/L	1.81 NTU	-257.9 mV	4.07 ft	9.18 PSU	300.00 ml/min
7/23/2024 12:52 PM	10:00	6.63 pH	26.62 °C	15,336 µS/cm	0.09 mg/L	1.68 NTU	-223.5 mV	4.11 ft	9.07 PSU	300.00 ml/min
7/23/2024 12:57 PM	15:00	6.63 pH	26.51 °C	15,390 µS/cm	0.09 mg/L	1.79 NTU	-227.6 mV	4.13 ft	9.11 PSU	300.00 ml/min
7/23/2024 1:02 PM	20:00	6.64 pH	26.39 °C	15,302 µS/cm	0.08 mg/L	1.32 NTU	-265.0 mV	4.16 ft	9.05 PSU	300.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 10:33:53 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 4.53 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
7/23/2024 10:33 AM	00:00	6.78 pH	26.71 °C	11,725 µS/cm	0.11 mg/L	0.24 NTU	-262.0 mV	4.43 ft	6.79 PSU	200.00 ml/min
7/23/2024 10:38 AM	05:00	6.79 pH	26.25 °C	11,665 µS/cm	0.08 mg/L	0.17 NTU	-272.8 mV	4.38 ft	6.75 PSU	200.00 ml/min
7/23/2024 10:43 AM	10:00	6.83 pH	26.27 °C	11,456 µS/cm	0.06 mg/L	0.11 NTU	-301.4 mV	4.32 ft	6.62 PSU	200.00 ml/min
7/23/2024 10:48 AM	15:00	6.85 pH	26.24 °C	11,367 µS/cm	0.05 mg/L	0.24 NTU	-281.7 mV	4.28 ft	6.56 PSU	200.00 ml/min
7/23/2024 10:53 AM	20:00	6.87 pH	26.25 °C	11,273 µS/cm	0.05 mg/L	0.21 NTU	-313.6 mV	4.28 ft	6.50 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 8:50:09 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 5.52 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 4160 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 1 liter.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 8:50 AM	00:00	7.06 pH	25.00 °C	9,549.2 µS/cm	0.38 mg/L	1.31 NTU	-226.1 mV	5.47 ft	5.44 PSU	260.00 ml/min
7/23/2024 8:54 AM	04:00	7.10 pH	24.66 °C	9,463.7 µS/cm	0.34 mg/L	0.97 NTU	-243.6 mV	5.33 ft	5.38 PSU	260.00 ml/min
7/23/2024 8:58 AM	08:00	7.12 pH	24.48 °C	9,354.7 µS/cm	0.32 mg/L	1.50 NTU	-246.9 mV	5.29 ft	5.32 PSU	260.00 ml/min
7/23/2024 9:02 AM	12:00	7.15 pH	24.46 °C	9,225.5 µS/cm	0.30 mg/L	1.38 NTU	-250.0 mV	5.24 ft	5.24 PSU	260.00 ml/min
7/23/2024 9:06 AM	16:00	7.20 pH	24.42 °C	9,035.7 µS/cm	0.28 mg/L	0.41 NTU	-252.6 mV	5.19 ft	5.12 PSU	260.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 1:46:10 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.49 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 1 liter.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 1:46 PM	00:00	7.32 pH	39.83 °C	8,810.9 µS/cm	0.44 mg/L	3.39 NTU	-312.9 mV	4.67 ft	4.97 PSU	240.00 ml/min
7/23/2024 1:51 PM	05:00	7.43 pH	29.29 °C	6,949.3 µS/cm	0.09 mg/L	2.62 NTU	-307.2 mV	4.72 ft	3.87 PSU	240.00 ml/min
7/23/2024 1:56 PM	10:00	7.47 pH	28.58 °C	6,953.8 µS/cm	0.08 mg/L	2.65 NTU	-327.6 mV	4.75 ft	3.87 PSU	240.00 ml/min
7/23/2024 2:01 PM	15:00	7.48 pH	28.26 °C	6,986.3 µS/cm	0.09 mg/L	2.47 NTU	-307.6 mV	4.79 ft	3.89 PSU	240.00 ml/min
7/23/2024 2:06 PM	20:00	7.49 pH	28.42 °C	7,098.6 µS/cm	0.07 mg/L	1.54 NTU	-328.1 mV	4.84 ft	3.96 PSU	240.00 ml/min
7/23/2024 2:11 PM	25:00	7.50 pH	28.73 °C	7,104.2 µS/cm	0.07 mg/L	1.58 NTU	-328.7 mV	4.89 ft	3.96 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 9:07:26 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.74 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.51 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
7/23/2024 9:07 AM	00:00	6.67 pH	27.85 °C	11,577 µS/cm	0.19 mg/L	0.38 NTU	-206.2 mV	5.52 ft	6.69 PSU	210.00 ml/min
7/23/2024 9:12 AM	05:00	6.70 pH	25.61 °C	11,925 µS/cm	0.10 mg/L	0.31 NTU	-287.1 mV	5.46 ft	6.91 PSU	210.00 ml/min
7/23/2024 9:17 AM	10:00	6.71 pH	25.63 °C	11,852 µS/cm	0.07 mg/L	0.88 NTU	-290.5 mV	5.37 ft	6.86 PSU	210.00 ml/min
7/23/2024 9:22 AM	15:00	6.72 pH	25.13 °C	11,736 µS/cm	0.07 mg/L	0.24 NTU	-238.8 mV	5.31 ft	6.79 PSU	210.00 ml/min
7/23/2024 9:27 AM	20:00	6.74 pH	25.05 °C	11,630 µS/cm	0.06 mg/L	0.17 NTU	-291.3 mV	5.23 ft	6.72 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 12:51:50 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.99 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
7/23/2024 12:51 PM	00:00	6.44 pH	28.86 °C	10,861 µS/cm	0.17 mg/L	0.71 NTU	-168.9 mV	4.15 ft	6.25 PSU	200.00 ml/min
7/23/2024 12:56 PM	05:00	6.44 pH	28.43 °C	10,904 µS/cm	0.12 mg/L	0.83 NTU	-196.6 mV	4.18 ft	6.27 PSU	200.00 ml/min
7/23/2024 1:01 PM	10:00	6.43 pH	28.48 °C	10,901 µS/cm	0.08 mg/L	1.10 NTU	-241.9 mV	4.24 ft	6.27 PSU	200.00 ml/min
7/23/2024 1:06 PM	15:00	6.44 pH	28.32 °C	10,796 µS/cm	0.05 mg/L	0.97 NTU	-218.5 mV	4.27 ft	6.21 PSU	200.00 ml/min
7/23/2024 1:11 PM	20:00	6.45 pH	28.27 °C	10,754 µS/cm	0.03 mg/L	0.86 NTU	-232.0 mV	4.30 ft	6.18 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 10:12:05 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 4.52 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 5200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 10:12 AM	00:00	6.43 pH	25.62 °C	12,567 µS/cm	0.17 mg/L	2.44 NTU	-210.3 mV	4.41 ft	7.31 PSU	260.00 ml/min
7/23/2024 10:17 AM	05:00	6.44 pH	25.36 °C	12,526 µS/cm	0.12 mg/L	2.72 NTU	-256.7 mV	4.39 ft	7.29 PSU	260.00 ml/min
7/23/2024 10:22 AM	10:00	6.45 pH	25.32 °C	12,418 µS/cm	0.11 mg/L	2.57 NTU	-262.0 mV	4.33 ft	7.22 PSU	260.00 ml/min
7/23/2024 10:27 AM	15:00	6.48 pH	25.51 °C	12,257 µS/cm	0.09 mg/L	2.78 NTU	-263.3 mV	4.27 ft	7.12 PSU	260.00 ml/min
7/23/2024 10:32 AM	20:00	6.50 pH	25.40 °C	12,086 µS/cm	0.09 mg/L	2.55 NTU	-264.1 mV	4.24 ft	7.01 PSU	260.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 2:06:18 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.21 ft**	**Pump Type: Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.87 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
7/23/2024 2:06 PM	00:00	7.04 pH	28.44 °C	8,804.7 µS/cm	0.07 mg/L	0.20 NTU	-319.4 mV	7.19 ft	4.98 PSU	220.00 ml/min
7/23/2024 2:11 PM	05:00	7.04 pH	27.76 °C	8,739.7 µS/cm	0.03 mg/L	0.24 NTU	-324.9 mV	7.35 ft	4.94 PSU	220.00 ml/min
7/23/2024 2:16 PM	10:00	7.06 pH	27.19 °C	8,687.5 µS/cm	0.03 mg/L	0.14 NTU	-348.6 mV	7.37 ft	4.91 PSU	220.00 ml/min
7/23/2024 2:21 PM	15:00	7.05 pH	27.37 °C	8,631.1 µS/cm	0.01 mg/L	0.10 NTU	-325.9 mV	7.43 ft	4.88 PSU	220.00 ml/min
7/23/2024 2:26 PM	20:00	7.08 pH	27.35 °C	8,561.4 µS/cm	0.01 mg/L	0.07 NTU	-353.3 mV	7.44 ft	4.84 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

July 29, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Reanalysis:
Work Order: 677099

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
677099001	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
677099002	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
677099003	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
677099004	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22
677099005	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22
677099006	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
677099007	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
677099008	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
677099009	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22
677099010	MCM-AP1-FB-01	Ground Water	06/18/24 18:20	06/21/24 09:22
677099011	MCM-AP1-EB-01	Ground Water	06/18/24 18:06	06/21/24 09:22
677099012	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
677099013	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
677099014	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
677099015	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22
677099016	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22

677099017	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
677099018	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
677099019	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
677099020	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22

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.

Prep Methods and Prep Dates

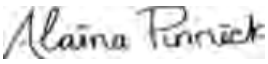
Method	Run Date ID
SW846 3005A	23-JUL-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	25-JUL-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 677099 GEL Work Order: 677099

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677099001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.811	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1557	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677099002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:15		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	J	0.0891	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1559	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677099003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.347	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1613	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677099004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 15:57		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.98	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1614	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677099005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:56		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.82	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1616	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677099006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.681	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1618	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677099007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 16:03		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.25	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1620	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677099008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:16		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.145	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1622	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677099009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.937	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1624	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	677099010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-JUN-24 18:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1626	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	677099011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-JUN-24 18:06		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1628	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677099012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.633	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1633	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677099013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:15		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron	J	0.0819	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1635	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677099014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.209	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1637	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677099015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 15:57		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		2.07	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1639	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677099016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:56		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.916	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1641	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677099017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.377	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1643	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677099018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 16:03		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.314	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1645	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677099019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:16		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron	J	0.0851	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1647	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677099020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.321	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1648	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: July 29, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **677099**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS														
Batch 2644961														
QC1205798216	LCS													
Iron			2.00				1.99	mg/L		99.6	(80%-120%)	PRB	07/25/24	15:55
QC1205798215	MB													
Iron						U	ND	mg/L					07/25/24	15:54
QC1205798217	677099002	MS												
Iron			2.00	J	0.0891		2.06	mg/L		98.3	(75%-125%)		07/25/24	16:01
QC1205798218	677099002	MSD												
Iron			2.00	J	0.0891		2.20	mg/L	6.91	106	(0%-20%)		07/25/24	16:03
QC1205798219	677099002	SDILT												
Iron				J	89.1	U	ND	ug/L	N/A		(0%-20%)		07/25/24	16:07

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ 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

QC Summary

Workorder: **677099**

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

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

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.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 677099

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2644961

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2644960

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

GEL Sample ID#	Client Sample Identification
677099001	MCM-INW-01
677099002	MCM-MCM-06
677099003	MCM-PT-01
677099004	MCM-PT-02
677099005	MCM-PT-03
677099006	MCM-DR-01
677099007	MCM-DR-02
677099008	MCM-DR-03
677099009	MCM-AP1-FD-01
677099010	MCM-AP1-FB-01
677099011	MCM-AP1-EB-01
677099012	MCM-INW-01
677099013	MCM-MCM-06
677099014	MCM-PT-01
677099015	MCM-PT-02
677099016	MCM-PT-03
677099017	MCM-DR-01
677099018	MCM-DR-02
677099019	MCM-DR-03
677099020	MCM-AP1-FD-01
1205798215	Method Blank (MB)**ICP-MS**
1205798216	Laboratory Control Sample (LCS)
1205798219	677099002(MCM-MCM-06L) Serial Dilution (SD)
1205798217	677099002(MCM-MCM-06S) Matrix Spike (MS)
1205798218	677099002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

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.

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

672636

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	6/19/24	1410	G	Y*	WG			3	X	X	X	X	X	Comments: Note: extra sample is required for sample specific QC
MCM-MCM-06	6/19/24	1015	G	Y*	WG			3	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	6/19/24	1020	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-02	6/18/24	1557	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-03	6/18/24	1156	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-01	6/18/24	1133	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-02	6/18/24	1603	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-03	6/19/24	1416	G	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FD-01	6/18/24	—	FD	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FB-01	6/18/24	1820	FB	N	WQ			2	X		X	X	X	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental			1		
2	[signature]	6/21/24	9:22	2 [signature] Tatum	6/21/24	922
3				3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	6/18/24	1816	EB	N	WQ			5	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2	6/21/24	9:22	2	6/21/24	0922
3			3		

TAT Requested: **Normal: X** **Rush:** **Specify:** **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

672636

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: STACY BOONE	Date Received: JUNE 21, 2024
	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 connected 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: 1.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No containers 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 WJ Date 6/24/24 Page 1 of 1

Page: 1.0 of 2
Project #: GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

677099

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #: N/A
Project/Site Name: Plant McManus CCR Groundwater Compliance Fax #
Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
Collected By: Send Results To: KNJURINK@SOUTHERNCO.COM

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals	TDS/Anions/Alkalinity	Dissolved Metals	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-INW-01								3	X	X	X		
MCM-MCM-06								3	X	X	X		
MCM-PT-01								3	X	X	X		
MCM-PT-02								3	X	X	X		
MCM-PT-03								3	X	X	X		
MCM-DR-01								3	X	X	X		
MCM-DR-02								3	X	X	X		
MCM-DR-03								3	X	X	X		
MCM-AP1-FD-01								3	X	X	X		
MCM-AP1-FB-01								2	X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: _____

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: 236764

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg= Mercury**
Ba = Barium **Se= Selenium**
Cd = Cadmium **Ag= Silver**
Cr = Chromium **MR= Misc. RCRA metals**
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2.0 of 2
Project #: GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #: N/A
Project/Site Name: Plant McManus CCR Groundwater Compliance — Fax #
Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
Collected By: — Send Results To: KNJURINK@SOUTHERNCO.COM

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals	TDS/Anions/Alkalinity	Dissolved Metals	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-AP1-EB-01								2	X	X			
Extra 1								3	X	X	X		
Extra 2								3	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: _____ Rush: _____ Specify: _____

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: 236764

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: _____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [ ] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg= Mercury**
Ba = Barium **Se= Selenium**
Cd = Cadmium **Ag= Silver**
Cr = Chromium **MR= Misc. RCRA metals**
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

677339
677099
677344

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: WJ	Date Received: 7/24/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2774 2358 9706

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: 3
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 7/25/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 29 July 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

August 14, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 677344

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 24, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the previous revision noted as SDG number 677344 Rev01 in the left-hand footer of the data report. Revision two updates the reporting metals to include magnesium, potassium, sodium, and calcium, replacing the August 7, 2024 revised report.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
677344001	MCM-INW-01	Ground Water	07/23/24 13:08	07/24/24 09:35
677344002	MCM-MCM-06	Ground Water	07/23/24 14:20	07/24/24 09:35
677344003	MCM-PT-01	Ground Water	07/23/24 09:25	07/24/24 09:35
677344004	MCM-PT-02	Ground Water	07/23/24 13:10	07/24/24 09:35
677344005	MCM-PT-03	Ground Water	07/23/24 10:38	07/24/24 09:35
677344006	MCM-DR-01	Ground Water	07/23/24 10:47	07/24/24 09:35
677344007	MCM-DR-02	Ground Water	07/23/24 09:10	07/24/24 09:35
677344008	MCM-DR-03	Ground Water	07/23/24 14:16	07/24/24 09:35
677344009	MCM-AP1-FD-01	Ground Water	07/23/24 12:00	07/24/24 09:35

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.

Prep Methods and Prep Dates

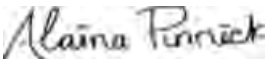
Method	Run Date ID
SW846 3005A	13-AUG-2024
SW846 3005A	25-JUL-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	13-AUG-2024
SW846 3005A/6020B	26-JUL-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 677344 GEL Work Order: 677344

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677344001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:08		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		239	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2125	2654804	1
Magnesium		312	1.00	3.00	mg/L	1.00	100					
Potassium		85.4	8.00	30.0	mg/L	1.00	100					
Sodium		2550	8.00	25.0	mg/L	1.00	100					
Arsenic		0.0107	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1514	2645896	2
Iron		2.04	0.0330	0.100	mg/L	1.00	1					
Manganese		0.181	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677344002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:20		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0900	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1529	2645896	1
Iron		0.146	0.0330	0.100	mg/L	1.00	1					
Manganese		0.147	0.00100	0.00500	mg/L	1.00	1					
Calcium		114	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2128	2654804	2
Magnesium		207	0.500	1.50	mg/L	1.00	50					
Potassium		70.0	4.00	15.0	mg/L	1.00	50					
Sodium		1430	4.00	12.5	mg/L	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677344003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:25		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		181	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2150	2654804	1
Magnesium		260	1.00	3.00	mg/L	1.00	100					
Potassium		78.9	8.00	30.0	mg/L	1.00	100					
Sodium		1900	8.00	25.0	mg/L	1.00	100					
Arsenic		0.0131	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1531	2645896	2
Iron		0.312	0.0330	0.100	mg/L	1.00	1					
Manganese		0.285	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677344004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		176	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2154	2654804	1
Magnesium		257	1.00	3.00	mg/L	1.00	100					
Potassium		71.3	8.00	30.0	mg/L	1.00	100					
Sodium		1860	8.00	25.0	mg/L	1.00	100					
Arsenic	J	0.00703	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1533	2645896	2
Iron		3.62	0.0330	0.100	mg/L	1.00	1					
Manganese		0.405	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677344005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:38		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0350	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1535	2645896	1
Iron		0.833	0.0330	0.100	mg/L	1.00	1					
Manganese		0.124	0.00100	0.00500	mg/L	1.00	1					
Calcium		181	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2157	2654804	2
Magnesium		266	1.00	3.00	mg/L	1.00	100					
Potassium		77.0	8.00	30.0	mg/L	1.00	100					
Sodium		2020	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677344006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:47		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0249	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1537	2645896	1
Iron		0.410	0.0330	0.100	mg/L	1.00	1					
Manganese		0.192	0.00100	0.00500	mg/L	1.00	1					
Calcium		160	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2201	2654804	2
Magnesium		277	1.00	3.00	mg/L	1.00	100					
Potassium		78.7	8.00	30.0	mg/L	1.00	100					
Sodium		2060	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677344007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		105	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2205	2654804	1
Magnesium		174	0.500	1.50	mg/L	1.00	50					
Potassium		64.4	4.00	15.0	mg/L	1.00	50					
Sodium		1550	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0525	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1539	2645896	2
Iron		0.163	0.0330	0.100	mg/L	1.00	1					
Manganese		0.0978	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677344008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:16		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		63.9	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2208	2654804	1
Magnesium		108	0.500	1.50	mg/L	1.00	50					
Potassium		51.9	4.00	15.0	mg/L	1.00	50					
Sodium		1270	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0357	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1541	2645896	2
Iron		0.106	0.0330	0.100	mg/L	1.00	1					
Manganese		0.113	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677344009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 12:00		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0517	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1543	2645896	1
Iron		0.161	0.0330	0.100	mg/L	1.00	1					
Manganese		0.0994	0.00100	0.00500	mg/L	1.00	1					
Calcium		99.6	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2212	2654804	2
Magnesium		167	0.500	1.50	mg/L	1.00	50					
Potassium		62.1	4.00	15.0	mg/L	1.00	50					
Sodium		1480	4.00	12.5	mg/L	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: August 14, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **677344**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2645896											
QC1205799935 LCS											
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)	PRB	07/26/24	15:12
Iron	2.00			1.90	mg/L		95.2	(80%-120%)			
Manganese	0.0500			0.0481	mg/L		96.1	(80%-120%)			
QC1205799934 MB											
Arsenic			U	ND	mg/L					07/26/24	15:10
Iron			U	ND	mg/L						
Manganese			U	ND	mg/L						
QC1205799936 677344001 MS											
Arsenic	0.0500	0.0107		0.0581	mg/L		94.8	(75%-125%)		07/26/24	15:16
Iron	2.00	2.04		3.79	mg/L		87.5	(75%-125%)			
Manganese	0.0500	0.181		0.219	mg/L		76.3	(75%-125%)			
QC1205799937 677344001 MSD											
Arsenic	0.0500	0.0107		0.0595	mg/L	2.51	97.7	(0%-20%)		07/26/24	15:18
Iron	2.00	2.04		3.80	mg/L	0.436	88.3	(0%-20%)			
Manganese	0.0500	0.181		0.224	mg/L	2.3	86.4	(0%-20%)			

QC Summary

Workorder: **677344**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2645896										
QC1205799938 677344001 SDILT										
Arsenic		10.7	J	2.91	ug/L	36.1		(0%-20%)	PRB	07/26/24 15:22
Iron		2040		414	ug/L	1.75		(0%-20%)		
Manganese		181		36.4	ug/L	.876		(0%-20%)		
Batch 2654804										
QC1205818307 LCS										
Calcium	2.00			2.04	mg/L		102	(80%-120%)	PRB	08/13/24 21:21
Magnesium	2.00			2.11	mg/L		106	(80%-120%)		
Potassium	2.00			1.94	mg/L		97.2	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
QC1205818306 MB										
Calcium			U	ND	mg/L					08/13/24 21:17
Magnesium			U	ND	mg/L					
Potassium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205818308 677344002 MS										
Calcium	2.00	114		113	mg/L		N/A	(75%-125%)		08/13/24 21:32
Magnesium	2.00	207		200	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **677344**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2654804										
Potassium	2.00	70.0		68.7	mg/L		N/A	(75%-125%)	PRB	08/13/24 21:32
Sodium	2.00	1430		1370	mg/L		N/A	(75%-125%)		
QC1205818309 677344002 MSD										
Calcium	2.00	114		114	mg/L	1.18	N/A	(0%-20%)		08/13/24 21:35
Magnesium	2.00	207		203	mg/L	1.38	N/A	(0%-20%)		
Potassium	2.00	70.0		69.6	mg/L	1.31	N/A	(0%-20%)		
Sodium	2.00	1430		1400	mg/L	1.63	N/A	(0%-20%)		
QC1205818310 677344002 SDILT										
Calcium		2280		475	ug/L	3.85		(0%-20%)		08/13/24 21:39
Magnesium		4140		843	ug/L	1.71		(0%-20%)		
Potassium		1400	J	280	ug/L	.0969		(0%-20%)		
Sodium		28500		5820	ug/L	1.97		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

QC Summary

Workorder: **677344**

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

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
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
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.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
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.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 677344

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2645896

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2645895

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

GEL Sample ID#	Client Sample Identification
677344001	MCM-INW-01
677344002	MCM-MCM-06
677344003	MCM-PT-01
677344004	MCM-PT-02
677344005	MCM-PT-03
677344006	MCM-DR-01
677344007	MCM-DR-02
677344008	MCM-DR-03
677344009	MCM-AP1-FD-01
1205799934	Method Blank (MB)**ICP-MS**
1205799935	Laboratory Control Sample (LCS)
1205799938	677344001(MCM-INW-01L) Serial Dilution (SD)
1205799936	677344001(MCM-INW-01S) Matrix Spike (MS)
1205799937	677344001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2654804

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2654803

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

GEL Sample ID#	Client Sample Identification
677344001	MCM-INW-01
677344002	MCM-MCM-06
677344003	MCM-PT-01
677344004	MCM-PT-02
677344005	MCM-PT-03
677344006	MCM-DR-01
677344007	MCM-DR-02
677344008	MCM-DR-03
677344009	MCM-AP1-FD-01
1205818306	Method Blank (MB)**ICP-MS**
1205818307	Laboratory Control Sample (LCS)
1205818310	677344002(MCM-MCM-06L) Serial Dilution (SD)
1205818308	677344002(MCM-MCM-06S) Matrix Spike (MS)
1205818309	677344002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	677344								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Calcium	100X	50X	100X	100X	100X	100X	50X	50X	50X
Magnesium	100X	50X	100X	100X	100X	100X	50X	50X	50X
Potassium	100X	50X	100X	100X	100X	100X	50X	50X	50X
Sodium	100X	50X	100X	100X	100X	100X	50X	50X	50X

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

677099 / 677344 ~~677099~~ 677339

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling July 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	7/23/24	1308	G	Y*	WG			3	X	X	X	X	X	
MCM-MCM-06	7/23/24	1420	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-01	7/23/24	0925	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-02	7/23/24	1310	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-03	7/23/24	1038	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-01	7/23/24	1047	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-02	7/23/24	0910	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-03	7/23/24	1416	G	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FD-01	7/23/24	—	FD	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FB-01	7/23/24	1508	FB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

*** - 3 Day TAT - Does Not Include Sunday

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	7/23/24	@ 1642	[signature]	7/24/24	935
2						
3						

TAT Requested: Normal: __X__ Rush: ~~Y***~~ Specify: 3 DAY (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-AP1-EB-01	7/23/24	1511	EB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	7/23/24	1644	1 Will Jones	7/27/24	935
2			2		
3			3		

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 21 of 23 SDG: 677344 Rev2

677339
677099
677344

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: WJ	**Date Received:** 7/24/24
Carrier and Tracking Number	Circle Applicable: ~~FedEx Express~~ FedEx Ground UPS Field Services Courier Other 2774 2358 9706

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: 3°
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 7/25/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 14 August 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 7/26/2024 11:51:59 AM

JOB DESCRIPTION

Plant McManus Dike Baseline Sampling 2024-07

JOB NUMBER

680-253694-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

Generated
7/26/2024 11:51:59 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

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

Sample Summary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-253694-1	MCM-INW-01	Ground Water	07/23/24 13:08	07/24/24 09:45
680-253694-2	MCM-MCM-06	Ground Water	07/23/24 14:20	07/24/24 09:45
680-253694-3	MCM-PT-01	Ground Water	07/23/24 09:25	07/24/24 09:45
680-253694-4	MCM-PT-02	Ground Water	07/23/24 13:10	07/24/24 09:45
680-253694-5	MCM-PT-03	Ground Water	07/23/24 10:38	07/24/24 09:45
680-253694-6	MCM-DR-01	Ground Water	07/23/24 10:47	07/24/24 09:45
680-253694-7	MCM-DR-02	Ground Water	07/23/24 09:10	07/24/24 09:45
680-253694-8	MCM-DR-03	Ground Water	07/23/24 14:16	07/24/24 09:45
680-253694-9	MCM-AP1-FD-01	Ground Water	07/23/24 00:00	07/24/24 09:45
680-253694-10	MCM-AP1-FB-01	Water	07/23/24 15:08	07/24/24 09:45
680-253694-11	MCM-AP1-EB-01	Water	07/23/24 15:11	07/24/24 09:45

Job ID: 680-253694-1 — Eurofins Savannah

Job Narrative
680-253694-1

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

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

Receipt
The samples were received on 7/24/2024 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

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

Client Sample ID: MCM-INW-01 — **Lab Sample ID: 680-253694-1**
Date Collected: 07/23/24 13:08 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	14		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-MCM-06 — **Lab Sample ID: 680-253694-2**
Date Collected: 07/23/24 14:20 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	42		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-PT-01 — **Lab Sample ID: 680-253694-3**
Date Collected: 07/23/24 09:25 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-PT-02 — **Lab Sample ID: 680-253694-4**
Date Collected: 07/23/24 13:10 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-PT-03 — **Lab Sample ID: 680-253694-5**
Date Collected: 07/23/24 10:38 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-DR-01 — **Lab Sample ID: 680-253694-6**
Date Collected: 07/23/24 10:47 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-DR-02 — **Lab Sample ID: 680-253694-7**
Date Collected: 07/23/24 09:10 — **Matrix: Ground Water**
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			07/25/24 15:33	1

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-253694-8
Date Collected: 07/23/24 14:16
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-253694-9
Date Collected: 07/23/24 00:00
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	34		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-253694-10
Date Collected: 07/23/24 15:08
Matrix: Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-253694-11
Date Collected: 07/23/24 15:11
Matrix: Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			07/25/24 15:33	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-848439/1
Matrix: Water
Analysis Batch: 848439

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			07/25/24 15:33	1

Lab Sample ID: LCS 680-848439/2
Matrix: Water
Analysis Batch: 848439

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.76		mg/L		98	75 - 125		

Lab Sample ID: LCSD 680-848439/3
Matrix: Water
Analysis Batch: 848439

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.22		mg/L		92	75 - 125	6	30

Lab Sample ID: 680-253694-4 MS
Matrix: Ground Water
Analysis Batch: 848439

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	13		6.50	20.0		mg/L		103	75 - 125		

Lab Sample ID: 680-253694-4 MSD
Matrix: Ground Water
Analysis Batch: 848439

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	13		6.50	20.0		mg/L		103	75 - 125	0	30

Lab Sample ID: 680-253694-1 DU
Matrix: Ground Water
Analysis Batch: 848439

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	14		15.0		mg/L		5	30

QC Association Summary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

General Chemistry

Analysis Batch: 848439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-253694-1	MCM-INW-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-2	MCM-MCM-06	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-3	MCM-PT-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-4	MCM-PT-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-5	MCM-PT-03	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-6	MCM-DR-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-7	MCM-DR-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-8	MCM-DR-03	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-9	MCM-AP1-FD-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-253694-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-848439/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-848439/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-848439/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-253694-4 MS	MCM-PT-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-4 MSD	MCM-PT-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-1 DU	MCM-INW-01	Total/NA	Ground Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-253694-1
Date Collected: 07/23/24 13:08
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-253694-2
Date Collected: 07/23/24 14:20
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-253694-3
Date Collected: 07/23/24 09:25
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-253694-4
Date Collected: 07/23/24 13:10
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-253694-5
Date Collected: 07/23/24 10:38
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-253694-6
Date Collected: 07/23/24 10:47
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-253694-7
Date Collected: 07/23/24 09:10
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-253694-8
Date Collected: 07/23/24 14:16
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-253694-9
Date Collected: 07/23/24 00:00
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-253694-10
Date Collected: 07/23/24 15:08
Matrix: Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-253694-11
Date Collected: 07/23/24 15:11
Matrix: Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Guam	State	24-05R	04-17-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Louisiana (All)	NELAP	30690	06-30-25
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kevin Stephenson, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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:
City: Atlanta	TAT Requested (days): 3-Day ~~Standard~~ Rush			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Dike Baseline Sampling 2024-07	Project #:			
Site:	SSOW#:			

680-253694 Chain of Custody

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total N.	Task_Code: MCM-CCR-CA-20240722 / Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	7/23/24	1308	G	WG	N		X	2	
MCM-MCM-06	7/23/24	1420	G	WG	N		X	2	
MCM-PT-01	7/23/24	0925	G	WG	N		X	2	
MCM-PT-02	7/23/24	1310	G	WG	N		X	2	
MCM-PT-03	7/23/24	1038	G	WG	N		X	2	
MCM-DR-01	7/23/24	1047	G	WG	N		X	2	
MCM-DR-02	7/23/24	0910	G	WG	N		X	2	
MCM-DR-03	7/23/24	1416	G	WG	N		X	2	
MCM-AP1-FD-01	7/23/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	7/23/24	1508	G	WQ	N		X	2	
MCM-AP1-EB-01	7/23/24	1511	G	WQ	N		X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7/23/24 1643	Resolute			
2						
3					7/24/24 0945	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4/3.4

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-253694-1

Login Number: 253694

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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	

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

August 07, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 677339

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 24, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
677339001	MCM-INW-01	Ground Water	07/23/24 13:08	07/24/24 09:35
677339002	MCM-MCM-06	Ground Water	07/23/24 14:20	07/24/24 09:35
677339003	MCM-PT-01	Ground Water	07/23/24 09:25	07/24/24 09:35
677339004	MCM-PT-02	Ground Water	07/23/24 13:10	07/24/24 09:35
677339005	MCM-PT-03	Ground Water	07/23/24 10:38	07/24/24 09:35
677339006	MCM-DR-01	Ground Water	07/23/24 10:47	07/24/24 09:35
677339007	MCM-DR-02	Ground Water	07/23/24 09:10	07/24/24 09:35
677339008	MCM-DR-03	Ground Water	07/23/24 14:16	07/24/24 09:35
677339009	MCM-AP1-FD-01	Ground Water	07/23/24 12:00	07/24/24 09:35
677339010	MCM-AP1-FB-01	Water	07/23/24 15:08	07/24/24 09:35
677339011	MCM-AP1-EB-01	Water	07/23/24 15:11	07/24/24 09:35

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.

Prep Methods and Prep Dates

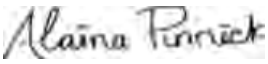
Method	Run Date ID
SW846 3005A	25-JUL-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	26-JUL-2024
EPA 300.0	27-JUL-2024
EPA 300.0	29-JUL-2024
SM 2320B	26-JUL-2024
SM 2540C	30-JUL-2024
SW846 3005A/6020B	29-JUL-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 677339 GEL Work Order: 677339

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

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.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677339001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:08		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		657	66.5	200	mg/L		500	CWW	07/26/24	1854	2647198	1
Chloride		4930	67.0	200	mg/L		1000	CWW	07/29/24	1210	2647198	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	J	0.00789	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0020	2645894	3
Iron		2.67	0.0330	0.100	mg/L	1.00	1					
Manganese		0.184	0.00100	0.00500	mg/L	1.00	1					
Calcium		250	8.00	20.0	mg/L	1.00	100	PRB	07/29/24	1028	2645894	4
Magnesium		330	1.00	3.00	mg/L	1.00	100					
Potassium		90.4	8.00	30.0	mg/L	1.00	100					
Sodium		2620	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9320	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		203	0.725	2.00	mg/L			JW2	07/26/24	1225	2647006	6
Bicarbonate alkalinity (CaCO3)		203	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677339001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677339002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:20		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2800	33.5	100	mg/L		500	CWW	07/26/24	1926	2647198	1
Sulfate		293	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0762	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0045	2645894	2
Iron	J	0.0385	0.0330	0.100	mg/L	1.00	1					
Manganese		0.139	0.00100	0.00500	mg/L	1.00	1					
Calcium		116	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1105	2645894	3
Magnesium		207	0.500	1.50	mg/L	1.00	50					
Potassium		69.7	4.00	15.0	mg/L	1.00	50					
Sodium		1380	4.00	12.5	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4960	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		284	0.725	2.00	mg/L			JW2	07/26/24	1228	2647006	5
Bicarbonate alkalinity (CaCO3)		284	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677339002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677339003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:25		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4020	33.5	100	mg/L		500	CWW	07/26/24	1958	2647198	1
Sulfate		452	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		187	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1107	2645894	2
Magnesium		267	0.500	1.50	mg/L	1.00	50					
Potassium		85.1	4.00	15.0	mg/L	1.00	50					
Sodium		1930	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0111	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0049	2645894	3
Iron		0.213	0.0330	0.100	mg/L	1.00	1					
Manganese		0.278	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6730	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		235	0.725	2.00	mg/L			JW2	07/26/24	1229	2647006	5
Bicarbonate alkalinity (CaCO3)		235	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677339003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677339004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3740	33.5	100	mg/L		500	CWW	07/26/24	2030	2647198	1
Sulfate		460	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		176	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1109	2645894	2
Magnesium		262	0.500	1.50	mg/L	1.00	50					
Potassium		73.5	4.00	15.0	mg/L	1.00	50					
Sodium		1820	4.00	12.5	mg/L	1.00	50					
Arsenic	J	0.00458	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0052	2645894	3
Iron		3.58	0.0330	0.100	mg/L	1.00	1					
Manganese		0.394	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6490	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		183	0.725	2.00	mg/L			JW2	07/26/24	1231	2647006	5
Bicarbonate alkalinity (CaCO3)		183	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677339004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677339005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:38		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3970	33.5	100	mg/L		500	CWW	07/26/24	2101	2647198	1
Sulfate		493	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		186	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1115	2645894	2
Magnesium		270	0.500	1.50	mg/L	1.00	50					
Potassium		78.7	4.00	15.0	mg/L	1.00	50					
Sodium		1990	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0309	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0056	2645894	3
Iron		0.927	0.0330	0.100	mg/L	1.00	1					
Manganese		0.121	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6880	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		192	0.725	2.00	mg/L			JW2	07/26/24	1233	2647006	5
Bicarbonate alkalinity (CaCO3)		192	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677339005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677339006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:47		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3920	33.5	100	mg/L		500	CWW	07/26/24	2133	2647198	1
Sulfate		467	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		157	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1117	2645894	2
Magnesium		270	0.500	1.50	mg/L	1.00	50					
Potassium		78.1	4.00	15.0	mg/L	1.00	50					
Sodium		1930	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0258	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0100	2645894	3
Iron		0.439	0.0330	0.100	mg/L	1.00	1					
Manganese		0.185	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7200	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		240	0.725	2.00	mg/L			JW2	07/26/24	1235	2647006	5
Bicarbonate alkalinity (CaCO3)		240	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677339006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677339007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2840	33.5	100	mg/L		500	CWW	07/26/24	2205	2647198	1
Sulfate		285	6.65	20.0	mg/L		50	CWW	07/29/24	1242	2647198	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0726	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0103	2645894	3
Iron		3.99	0.0330	0.100	mg/L	1.00	1					
Manganese		0.110	0.00100	0.00500	mg/L	1.00	1					
Calcium		102	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1119	2645894	4
Magnesium		169	0.500	1.50	mg/L	1.00	50					
Potassium		62.7	4.00	15.0	mg/L	1.00	50					
Sodium		1430	4.00	12.5	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4990	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		294	0.725	2.00	mg/L			JW2	07/26/24	1237	2647006	6
Bicarbonate alkalinity (CaCO3)		294	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677339007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677339008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:16		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2090	33.5	100	mg/L		500	CWW	07/26/24	2341	2647198	1
Sulfate		242	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		64.0	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1121	2645894	2
Magnesium		108	0.500	1.50	mg/L	1.00	50					
Potassium		53.3	4.00	15.0	mg/L	1.00	50					
Sodium		1220	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0376	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0107	2645894	3
Iron		0.252	0.0330	0.100	mg/L	1.00	1					
Manganese		0.112	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3860	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		334	0.725	2.00	mg/L			JW2	07/26/24	1239	2647006	5
Bicarbonate alkalinity (CaCO3)		321	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)		13.0	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677339008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677339009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 12:00		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2810	33.5	100	mg/L		500	CWW	07/27/24	0012	2647198	1
Sulfate		337	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0709	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0111	2645894	2
Iron		3.83	0.0330	0.100	mg/L	1.00	1					
Manganese		0.107	0.00100	0.00500	mg/L	1.00	1					
Calcium		107	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1123	2645894	3
Magnesium		175	0.500	1.50	mg/L	1.00	50					
Potassium		64.4	4.00	15.0	mg/L	1.00	50					
Sodium		1480	4.00	12.5	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4880	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		298	0.725	2.00	mg/L			JW2	07/26/24	1242	2647006	5
Bicarbonate alkalinity (CaCO3)		298	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677339009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: August 7, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-01
Sample ID: 677339010
Matrix: WQ
Collect Date: 23-JUL-24 15:08
Receive Date: 24-JUL-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	07/27/24	0044	2647198	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0114	2645894	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Magnesium	J	0.0122	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	J	0.162	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	07/30/24	1405	2648065	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	07/26/24	1243	2647006	4
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SM 2540C	
4	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	677339010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	677339011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	23-JUL-24 15:11		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	07/27/24	0116	2647198	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0118	2645894	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	07/30/24	1405	2648065	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	07/26/24	1244	2647006	4
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SM 2540C	
4	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	677339011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: August 7, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2647198										
QC1205802351 677536006 DUP										
Chloride	U	ND	U	ND	mg/L	N/A			CWW	07/27/24 07:38
Sulfate	U	ND	U	ND	mg/L	N/A				
QC1205802348 LCS										
Chloride	5.00			4.90	mg/L		98	(90%-110%)		07/26/24 17:50
Sulfate	10.0			9.96	mg/L		99.6	(90%-110%)		
QC1205802347 MB										
Chloride			U	ND	mg/L					07/26/24 17:19
Sulfate			U	ND	mg/L					
QC1205802352 677536006 PS										
Chloride	5.00	U ND		4.86	mg/L		97.3	(90%-110%)		07/27/24 08:10
Sulfate	10.0	U ND		9.68	mg/L		96.8	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2645894										
QC1205799930 LCS										
Arsenic	0.0500			0.0488	mg/L		97.5	(80%-120%)	PRB	07/29/24 00:16
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Iron	2.00			1.96	mg/L		97.9	(80%-120%)		

QC Summary

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2645894										
Magnesium	2.00			1.99	mg/L		99.6	(80%-120%)	PRB	07/29/24 00:16
Manganese	0.0500			0.0482	mg/L		96.3	(80%-120%)		
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Sodium	2.00			2.02	mg/L		101	(80%-120%)		
QC1205799929 MB										
Arsenic			U	ND	mg/L					07/29/24 00:12
Calcium			U	ND	mg/L					
Iron			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Potassium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205799931 677339001 MS										
Arsenic	0.0500	J 0.00789		0.0556	mg/L		95.4	(75%-125%)		07/29/24 00:23
Calcium	2.00	250		238	mg/L		N/A	(75%-125%)		07/29/24 10:30
Iron	2.00	2.67		4.42	mg/L		87.4	(75%-125%)		07/29/24 00:23

QC Summary

Workorder: **677339**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2645894											
Magnesium	2.00		330		318	mg/L		N/A	(75%-125%)	PRB	07/29/24 10:30
Manganese	0.0500		0.184		0.222	mg/L		76.3	(75%-125%)		07/29/24 00:23
Potassium	2.00		90.4		87.6	mg/L		N/A	(75%-125%)		07/29/24 10:30
Sodium	2.00		2620		2490	mg/L		N/A	(75%-125%)		
QC1205799932 677339001 MSD											
Arsenic	0.0500	J	0.00789		0.0537	mg/L	3.49	91.6	(0%-20%)		07/29/24 00:27
Calcium	2.00		250		250	mg/L	4.93	N/A	(0%-20%)		07/29/24 10:32
Iron	2.00		2.67		4.36	mg/L	1.32	84.5	(0%-20%)		07/29/24 00:27
Magnesium	2.00		330		329	mg/L	3.35	N/A	(0%-20%)		07/29/24 10:32
Manganese	0.0500		0.184		0.220	mg/L	0.945	72.1*	(0%-20%)		07/29/24 00:27
Potassium	2.00		90.4		91.9	mg/L	4.77	N/A	(0%-20%)		07/29/24 10:32
Sodium	2.00		2620		2590	mg/L	3.92	N/A	(0%-20%)		
QC1205802960 677339001 PS											
Manganese	50.0		184		201	ug/L		34.2*	(75%-125%)		07/29/24 00:31
QC1205799933 677339001 SDILT											
Arsenic		J	7.89	U	ND	ug/L	N/A		(0%-20%)		07/29/24 00:34

QC Summary

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2645894										
Calcium		2500		488	ug/L	2.31		(0%-20%)	PRB	07/29/24 11:03
Iron		2670		506	ug/L	5.22		(0%-20%)		07/29/24 00:34
Magnesium		3300		627	ug/L	5.1		(0%-20%)		07/29/24 11:03
Manganese		184		33.6	ug/L	8.59		(0%-20%)		07/29/24 00:34
Potassium		904	J	171	ug/L	5.12		(0%-20%)		07/29/24 11:03
Sodium		26200		4960	ug/L	5.28		(0%-20%)		
Solids Analysis										
Batch 2648065										
QC1205804347 677430002 DUP										
Total Dissolved Solids		136		138	mg/L	1.46		(0%-5%)	KLP1	07/30/24 14:05
QC1205804345 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		07/30/24 14:05
QC1205804344 MB										
Total Dissolved Solids			U	ND	mg/L					07/30/24 14:05
Titration and Ion Analysis										
Batch 2647006										
QC1205801998 677339001 DUP										
Alkalinity, Total as CaCO3		203		200	mg/L	1.49		(0%-20%)	JW2	07/26/24 12:26
Bicarbonate alkalinity (CaCO3)		203		200	mg/L	1.49		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				

QC Summary

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2647006										
QC1205802000 677339008 DUP										
Alkalinity, Total as CaCO3		334		336	mg/L	0.597		(0%-20%)	JW2	07/26/24 12:40
Bicarbonate alkalinity (CaCO3)		321		322	mg/L	0.311		(0%-20%)		
Carbonate alkalinity (CaCO3)		13.0		14.0	mg/L	7.41		(0%-20%)		
QC1205801997 LCS										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L		103	(90%-110%)		07/26/24 12:21
QC1205802002 LCS										
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)		07/26/24 12:24
QC1205801999 677339001 MS										
Alkalinity, Total as CaCO3	50.0	203		253	mg/L		N/A	(80%-120%)		07/26/24 12:27
QC1205802001 677339008 MS										
Alkalinity, Total as CaCO3	50.0	334		385	mg/L		N/A	(80%-120%)		07/26/24 12:41

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

QC Summary

Workorder: **677339**

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

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2645894

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2645892

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02
677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205799929	Method Blank (MB)**ICP-MS**
1205799930	Laboratory Control Sample (LCS)
1205799933	677339001(MCM-INW-01L) Serial Dilution (SD)
1205799931	677339001(MCM-INW-01S) Matrix Spike (MS)
1205799932	677339001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1205802960	677339001(MCM-INW-01PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is

less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205799932 (MCM-INW-01MSD)	Manganese	72.1* (75%-125%)

Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205802960 (MCM-INW-01PS)	Manganese	34.2* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 677339001 (MCM-INW-01), 677339002 (MCM-MCM-06), 677339003 (MCM-PT-01), 677339004 (MCM-PT-02), 677339005 (MCM-PT-03), 677339006 (MCM-DR-01), 677339007 (MCM-DR-02), 677339008 (MCM-DR-03) and 677339009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	677339								
	001	002	003	004	005	006	007	008	009
Calcium	100X	50X	50X	50X	50X	50X	50X	50X	50X
Magnesium	100X	50X	50X	50X	50X	50X	50X	50X	50X
Potassium	100X	50X	50X	50X	50X	50X	50X	50X	50X
Sodium	100X	50X	50X	50X	50X	50X	50X	50X	50X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2647198

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02

677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205802347	Method Blank (MB)
1205802348	Laboratory Control Sample (LCS)
1205802351	677536006(NonSDG) Sample Duplicate (DUP)
1205802352	677536006(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following sample 677339001 (MCM-INW-01) was diluted because target analyte concentrations exceeded the calibration range. Samples 677339001 (MCM-INW-01), 677339002 (MCM-MCM-06), 677339003 (MCM-PT-01), 677339004 (MCM-PT-02), 677339005 (MCM-PT-03), 677339006 (MCM-DR-01), 677339007 (MCM-DR-02), 677339008 (MCM-DR-03) and 677339009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	677339								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Sulfate	500X	500X	500X	500X	500X	500X	50X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2648065

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02
677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205804344	Method Blank (MB)
1205804345	Laboratory Control Sample (LCS)

1205804347	677430002(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to matrix interference. 677339001 (MCM-INW-01), 677339002 (MCM-MCM-06), 677339003 (MCM-PT-01), 677339004 (MCM-PT-02), 677339005 (MCM-PT-03), 677339006 (MCM-DR-01), 677339007 (MCM-DR-02), 677339008 (MCM-DR-03) and 677339009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2647006

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02
677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205801997	Laboratory Control Sample (LCS)
1205801998	677339001(MCM-INW-01) Sample Duplicate (DUP)
1205801999	677339001(MCM-INW-01) Matrix Spike (MS)
1205802000	677339008(MCM-DR-03) Sample Duplicate (DUP)
1205802001	677339008(MCM-DR-03) Matrix Spike (MS)
1205802002	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.

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.

Project # GPCC00105
GEL Quote #: GELP22-0819
PO Number [1]:
PO Number:

Chain of Custody and Analytical Request

677099 / 677344 ~~677099~~ 677339

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling July 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	7/23/24	1308	G	Y*	WG			3	X	X	X	X	X	
MCM-MCM-06	7/23/24	1420	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-01	7/23/24	0925	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-02	7/23/24	1310	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-03	7/23/24	1038	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-01	7/23/24	1047	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-02	7/23/24	0910	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-03	7/23/24	1416	G	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FD-01	7/23/24	—	FD	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FB-01	7/23/24	1508	FB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

*** - 3 Day TAT - Does Not Include Sunday

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	7/23/24 @ 1642	1	7/24/24	935
2			2		
3			3		

TAT Requested: Normal: __X__ Rush: ~~Y***~~ Specify: 3 DAY (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** 3 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-AP1-EB-01	7/23/24	1511	EB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	7/23/24	1644	1 Will Jones	7/27/24	935
2			2		
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

677339
677099
677344

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: WJ	**Date Received:** 7/24/24
Carrier and Tracking Number	Circle Applicable: ~~FedEx Express~~ FedEx Ground UPS Field Services Courier Other 2774 2358 9706

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: 3°
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 7/25/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 07 August 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Appendix D

Injection Field Forms

INJECTION SOLUTION LOG

Date: 8/13 - 8/19/2024

Test Area: MCM-06 Pilot Injection Study

Weather: Variable - See Field Notes

Injection Well/: INW-01

Site: Georgia Power McManus

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Batch	Date	Time	Tracer Added (L)	FeCl2 Added (kg)	Batch Size (gallons)	Geochemical Parameters					Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	
0	8/13/2024	12:50	0	0	115	31.2	8.30	515	2.86	-55.5	MCA - Water (08132024)
1	8/13/2024	13:30	1	13	500	29.0	5.10	5,300	2.16	124.0	MCM-Batch 1 (08132024)
2	8/14/2024	8:55	0.5	6.5	250	26.6	5.58	6,891	NR	7.4	
3	8/14/2024	11:52	0.5	6.5	250	31.0	5.69	3,167	4.08	-25.6	
4	8/14/2024	13:55	0.5	6.5	250	28.9	5.63	5,407	2.19	-21.4	
5	8/15/2024	9:45	0.5	6.5	250	30.3	4.95	5,301	2.91	91.9	MCM-Batch 5 (08152024)
6	8/15/2024	12:20	0.5	6.5	250	30.7	5.68	6,037	14.72	-25.0	
7	8/15/2024	14:05	0.5	6.5	250	30.7	5.59	6,585	4.3	15.4	
8	8/16/2024	9:22	0.5	6.5	250	27.8	5.32	7,309	4.06	-1.7	
9	8/16/2024	12:15	0.5	6.5	250	30.4	5.64	6,001	6.35	-20.9	
10	8/16/2024	14:00	0.5	6.5	250	32.4	5.59	5,473	2.57	-12.2	MCM-Batch 10 (08162024)
11	8/17/2024	9:55	0.5	6.5	250	27.2	6.00	2,946	3.14	-30.2	
12	8/17/2024	11:55	0.5	6.5	250	29.2	5.67	6,671	4.19	-24.9	
13	8/17/2024	15:28	0.5	6.5	250	35.2	5.30	7,365	2.3	24.0	
14	8/18/2024	11:30	0.5	6.5	250	29	5.72	6,883	4.62	-24.1	
15	8/18/2024	14:45	0.5	6.5	250	32.1	5.67	6,507	5.62	-22.9	MCM-Batch 15 (08182024)

INJECTION SOLUTION LOG

Date: 8/13 - 8/19/2024

Test Area: MCM-06 Pilot Injection Study

Weather: Variable - See Field Notes

Injection Well/: INW-01

Site: Georgia Power McManus

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Batch	Date	Time	Tracer Added (L)	FeCl2 Added (kg)	Batch Size (gallons)	Geochemical Parameters					Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	
16	8/19/2024	11:00	0.5	6.5	250	30.8	5.65	6,810	3.14	-26.1	
17	8/19/2024	13:17	0.5	6.5	250	31.6	5.72	6,372	4.88	-12.6	

INJECTION FIELD TEST LOG

Date:: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Injection Well/: INW-01

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Time	Date	Totalizer Volume (gal)	Cumulative Volume (gal)	Tank Volume (gal)	Injection Flowrate (gal/min)	Well Head Presure (PSI)	Notes
		246					Clean water
11:20	8/13/2024	276	31		~4.7	0.1	Off 11:27 to tighten leaks
11:32	8/13/2024	315.29	70.29			0.1	Off at 11:36 to seal hole in casing
11:40	8/13/2024				~0.8 - 1	0	Off 11:42
11:48	8/13/2024	334.34	89.34		5.1	0	Off 11:49 to glue cap to casing
12:01	8/13/2024	360.57	115.57		4.9	0	Off 12:05
							Reset totalizer
13:15	8/13/2024	--	--	500	5.5	0.2	Start Batch 1 (500 gal)
14:15	8/13/2024	284.42	284.42		4.2	0	
15:00	8/13/2024	472	472		0.8 - 0	0	Batch 1 complete, unable to remove sludge volume
16:25	8/13/2024	50 gal water flush				0	
8:45	8/14/2024	483	483	250	4.3	0.1	Start Batch 2 (250 gal)
9:42	8/14/2024	692	692		3.4	0	
9:44	8/14/2024	693	693		0	0	Batch 2 complete (210 gal) *totalizer funky*
11:17	8/14/2024	0	700	250	3.0	0.1	Batch 3 began (250 gal)
12:17	8/14/2024	167	867	< 100	2.7	0	
12:43	8/14/2024	238	938		0	0	Batch 3 complete (238 gal)
13:25	8/14/2024	238	938	250	2.6	0	Batch 4 started (250 gal)
14:25	8/14/2024	391	1091	<100	2.4	0	

INJECTION FIELD TEST LOG

Date:: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Injection Well/: INW-01

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Time	Date	Totalizer Volume (gal)	Cumulative Volume (gal)	Tank Volume (gal)	Injection Flowrate (gal/min)	Well Head Presure (PSI)	Notes
15:04	8/14/2024	481	1181	0	0	0	Batch 4 complete (243 gal)
15:11	8/14/2024	50 gal water flush					
8:57	8/15/2024	481	1181	250	2.5	0.2	Batch 5 started (250 gal)
9:57	8/15/2024	640	1340	125	2.9	0.3	
10:30	8/15/2024	744	1444	0	0	0	Batch 5 Complete (263 gal)
11:06	8/15/2024	744	1444	250	2.9	0.2	Batch 6 started (250 gal); Fe Hach Results - 2,300 mg/L
12:06	8/15/2024	881	1581	~125	2.3	0.2	
12:50	8/15/2024	988	1688	0	0	0	Batch 6 complete (244 gal)
13:55	8/15/2024	988	1688	250	2.5	0.3	Batch 7 Started (250 gal)
14:55	8/15/2024	1123	1823	~125	2.2	0.2	
15:48	8/15/2024	1227	1927	0	0	0	Batch 7 complete (239 gal)
15:55	8/15/2024	50 gal water flush				0	Flush complete at 16:24
8:35	8/16/2024	1227	1927	250	2.2	0.7	Batch 8 started (250 gal)
9:35	8/16/2024	1357	2057	~125	2.07	0.7	
10:35	8/16/2024	1481	2181	0	0.9	0.4 - 0.0	Batch 8 ended (254 gal)
11:05	8/16/2024	1481	2181	250	2.3	0.6	Batch 9 started (250 gal)
12:08	8/16/2024	1618	2318	~125	2.1	0.4	flow meter stalled
12:47	8/16/2024	1698	2398	~25	1.98	0.2	

INJECTION FIELD TEST LOG

Date:: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Injection Well/: INW-01

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Time	Date	Totalizer Volume (gal)	Cumulative Volume (gal)	Tank Volume (gal)	Injection Flowrate (gal/min)	Well Head Presure (PSI)	Notes
13:00	8/16/2024	1721	2421	0	0	0	out
13:55	8/16/2024	1787	2487	200	2.25	0.2	Collected MCM-Batch 10 (08162024)
15:19	8/16/2024	1959	2659	25	1.92	0	
15:28	8/16/2024	1975	2675	0	0	0	
8:15	8/17/2024	2018	2718	~225	1.83	0.7	Batch 11
9:05	8/17/2024	2090	2790	~145	1.49	0.2	
9:53	8/17/2024	2161	2861	~40	1.46	0.2	
10:21	8/17/2024	2199	2899	0	0	0	Flow meter needed new batteries, replaced
11:08	8/17/2024	2214	2914	~230	1.86	0.7	
11:55	8/17/2024	2298	2998	~150	1.72	0.2	
12:47	8/17/2024	2384	3084	~50	1.6	0.1	
13:22	8/17/2024	2436	3136	0	0	0	
14:52	8/17/2024	2442	3199	~180	0	0.7	Meter stalled
15:25	8/17/2024	2490	3247	~130	1.77	0.1	Meter stalled

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-01**

Personnel: R. Shealy, J. Ware, G. Wilford

Sampling Equipment: Used tubing in wells at set depths. Reading read with YSI

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
10:12	8/13/2024	6.0	0	N	NA	28.1	6.69	12,639	1.17	-305.7		tubing at 2.5'
10:02	8/13/2024	6.0	0	Y	1.0	27.0	6.71	12,599	4.40	-298.5		tubing at 7.5'
10:15	8/13/2024	6.0	0	N	NA	25.1	6.84	11,945	1.21	-309.6		tubing at 12.5'
17:35	8/13/2024	4.33	472	N	NA	30.5	6.84	12,108	0.87	-287.6	7.35	tubing at 2.5' turb 7.35
17:26	8/13/2024	4.33	472	Y	0.1	27.3	6.36	12,096	0.68	-287.8	5.03	tubing at 7.5' turb 5.03
17:40	8/13/2024	4.33	472	N	NA	26.2	6.83	11,774	0.55	-304.4	4.38	tubing at 12.5' turb 4.38
9:18	8/14/2024	5.43	612	N	NA	26.0	6.63	11,802	1.35	-297.8	11.33	2.5 YSI Peri
9:10	8/14/2024	5.43	579	Y	0.2	25.8	6.75	11,262	1.19	-293.8	2.49	7.5 YSI Peri
8:59	8/14/2024	5.43	550	N	NA	25.5	6.86	10,905	1.26	-296.4	2.55	12.5 YSI Peri
15:58	8/14/2024	4.14	1181	N	--	26.0	6.89	11,050	0.67	-291.8		12.5 YSI Peri
16:04	8/14/2024	4.14	1181	N	1.0	25.4	6.80	11,059	0.91	-300.5	1.87	7.5 YSI Peri
16:15	8/14/2024	4.14	1181	N	--	25.5	6.74	11,400	0.79	-295.6		2.5 YSI Peri
9:32	8/15/2024	5.10	1276	N	--	24.8	6.75	12,318	2.00	-288.4		2.5 YSI Peri
9:21	8/15/2024	5.10	1250	Y	0.5	24.2	6.86	11,627	1.56	-295.0	3.12	7.5 YSI Peri
9:15	8/15/2024	5.10	1231	N	--	24.2	6.97	11,754	2.01	-254.1		12.5 YSI Peri
9:05	8/16/2024	4.71	1998	N	--	25.7	6.84	11,877	1.99	-270.2		12.5' YSI Peri
9:10	8/16/2024	4.71	2010	Y	1.0	24.7	6.89	11,336	1.42	-300.7	1.42	7.5' YSI Peri
9:18	8/16/2024	4.71	2023	N	--	24.6	6.72	10,842	1.49	-294.4		2.5' YSI Peri

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-01**

Personnel: R. Shealy, J. Ware, G. Wilford

Sampling Equipment: Used tubing in wells at set depths. Reading read with YSI

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
9:03	8/17/2024	4.13	2787	N	--	25.0	6.28	12,290	2.22	-253.6		12.5' YSI Peri
9:07	8/17/2024	4.13	2792	Y	0.3	24.2	6.20	12,459	2.10	-247.5	13.6	7.5' YSI Peri
9:12	8/17/2024	4.13	2805	N	--	24.3	6.11	12,805	1.95	-239.8		2.5 YSI Peri
8:55	8/18/2024	4.22	3386	Y	0.5	24.4	6.74	13,238	4.28	-304.6	7.8	7.5' YSI Peri
9:04	8/18/2024	4.22	3386	N	--	25.1	6.74	12,567	3.79	-302.7		2.5' YSI Peri
9:07	8/18/2024	4.22	3386	N	--	23.9	6.92	12,332	3.34	-317.4		12.5' YSI Peri
15:47	8/19/2024	5.97	4329	N	--	29.4	6.88	12,579	1.82	-319.6		12.5' YSI Peri
15:50	8/19/2024	5.97	4329	Y	--	26.8	6.74	12,770	3.56	-319.1	4.66	7.5' YSI Peri
15:55	8/19/2024	5.97	4329	N	--	26.5	6.74	12,720	3.13	-311.5		2.5' YSI Peri

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:40	8/13/2024	5.77	0	N	--	34.88	6.71	11,471	0	-363.2		2.5' Sonde
8:30	8/13/2024	5.77	0	Y	0.0	31.17	7.02	10,280	0	-363.4		7.5' Sonde
8:35	8/13/2024	5.77	0	N	--	33.12	7.14	10,015	0	-368.4		12.5' Sonde
16:20	8/13/2024	4.01	472	Y	0.0	21.74	7.00	10,193	0	-360.4	27.70	7.5' Sonde
16:25	8/13/2024	4.01	472	N	--	22.35	6.76	10,511	0	-359.5		2.5' Sonde
16:28	8/13/2024	4.01	472	N	--	21.65	7.07	10,186	0	-362.4		12.5' Sonde
9:18	8/14/2024	5.22	612	Y	0.1	21.97	6.84	10,746	0	-363.7	59.15	7.5'
9:05	8/14/2024	5.22	579	N	—	22.32	6.87	10,912	0	-362.8		2.5
9:10	8/14/2024	5.22	588	N	—	21.72	7.10	10,171	0	-365.6		12.5
13:22	8/14/2024	5.53	938	Y	0.2	21.82	6.92	9,831	0	-357.4	71.13	7.5'
13:15	8/14/2024	5.53	938	N	--	22.24	6.73	10,143	0	-356.3		2.5'
13:17	8/14/2024	5.53	938	N	--	21.78	7.03	9,978	0	-359.2		12.5'
15:47	8/14/2024	3.95	1181	Y	0.2	21.93	6.85	9,744	0	-348.9	71.54	7.5'
15:39	8/14/2024	3.95	1181	N	--	22.34	6.77	9,554	0	-349.2		2.5'
15:41	8/14/2024	3.95	1181	N	--	21.81	6.99	9,670	0	-350.2		12.5'
8:50	8/15/2024	4.74	1181	Y	0.1	21.71	7.07	9,766	0	-362.3	44.06	7.5'
8:10	8/15/2024	4.74	1181	N	--	22.27	6.75	10,430	0	-360.7		2.5'
8:12	8/15/2024	4.74	1181	N	--	21.63	7.14	9,640	0	-362.8		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
12:10	8/15/2024	5.41	1590	Y	0.0	21.99	6.81	9,606	0	-356.5	12.59	7.5'
12:16	8/15/2024	5.41	1600	N	--	22.37	6.74	9,627	0	-357.6		2.5'
12:19	8/15/2024	5.41	1608	N	--	21.82	6.99	9,618	0	-360.7		12.5'
13:30	8/15/2024	7.65	1688	Y	0.1	21.83	6.88	9,447	0	-360.4	20.26	7.5'
16:25	8/15/2024	4.08	1927	Y	0.1	21.96	6.86	9,234	0	-357.8	0.91	7.5'
16:32	8/15/2024	4.08	1927	N	--	22.32	6.76	9,331	0	-358.1		2.5'
16:35	8/15/2024	4.08	1927	N	--	21.78	6.99	9,321	0	-358.7		12.5'
8:46	8/16/2024	4.37	1927	Y	0.1	21.72	7.01	9,673	0	-365.8	38.14	7.5
8:10	8/16/2024	4.37	1927	N	--	22.16	6.75	10,226	0	-364.2		2.5'
8:12	8/16/2024	4.37	1927	N	--	21.67	7.15	9,455	0	-365.5		12.5'
11:00	8/16/2024	5.32	2181	Y	0.1	21.98	6.81	9,454	0	-357.3	2.55	7.5'
13:12	8/16/2024	5.62	2421	Y	0.1	21.87	6.89	9,109	0	-356.1	7.61	7.5'
13:15	8/16/2024	5.62	2421	N	--	22.25	6.74	9,176	0	-355.9		2.5'
13:17	8/16/2024	5.62	2421	N	--	21.85	7.00	9,181	0	-356.6		12.5'
15:35	8/16/2024	5.30	2675	Y	0.0	21.89	6.94	Not recorded	0	-358.0	3.57	7.5'
8:20	8/17/2024	3.88	2724	Y	0.5	21.81	6.98	9,494	0	-363.3	7.89	7.5
8:25	8/17/2024	3.88	2733	N	--	22.23	6.76	9,888	0	-362.3		2.5'
8:29	8/17/2024	3.88	2740	N	-	21.70	7.05	9,454	0	-364.5		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
10:27	8/17/2024	4.72	2899	Y	0.1	22.0	6.79	9,293	0	-359.7	5.49	7.5'
13:35	8/17/2024	5.63	3136	Y	0.2	22.02	6.83	8,918	0	-358.4	7.41	7.5'
13:30	8/17/2024	5.63	3136	N	--	22.38	6.75	8,949	0	-358.7		2.5'
13:32	8/17/2024	5.63	3136	N	--	21.91	6.91	8,934	0	-358.6		12.5'
17:15	8/17/2024	5.02	3386	Y	0.2	21.98	6.78	8,853	0	-358.0	3.97	7.5'
8:15	8/18/2024	4.20	3386	Y	0.2	21.72	6.96	9,224	0	-363.9	4.82	7.5'
8:20	8/18/2024	4.20	3386	N	--	22.19	6.74	9,923	0	-365.0		2.5'
8:22	8/18/2024	4.20	3386	N	--	21.70	7.09	9,020	0	-366.7		12.5'
12:44	8/18/2024	5.42	3626	Y	0.2	21.97	6.82	8,804	0	-358.5	14.75	7.5'
16:03	8/18/2024	5.90	3861	Y	0.2	22.01	6.84	8,560	0	-355.8	8.74	7.5'
16:10	8/18/2024	5.90	3861	N	--	22.43	6.75	8,498	0	-356.9		2.5'
16:14	8/18/2024	5.90	3861	N	--	21.93	6.88	8,663	0	-358.2		12.5'
8:08	8/19/2024	4.6	3861	N	0.1	21.74	6.99	9,011	0	-362.9		7.5'
8:10	8/19/2024	4.6	3861	N	--	22.27	6.71	9,836	0	-361.2		2.5'
8:12	8/19/2024	4.6	3861	N	--	21.7	7	8,972	0	-362.9		12.5'
11:52	8/19/2024	4.6	4095	N	--	22.09	6.81	8,645	0	-361.2		7.5'
15:20	8/19/2024	5.77	4329	Y	0.5	22.42	6.79	8,449	0	-361	4.97	7.5'
15:30	8/19/2024	5.77	4329	N	--	22.5	6.75	8,337	0	-361.7		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
15:33	8/19/2024	5.77	4329	N	--	22	68.84	8,564	0	-362.5		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
7:49	8/13/2024	5.88	0	N	—	30.58	7.54	6,682	0.00	-447.3		2.5 ft Sonde
7:45	8/13/2024	5.88	0	Y	0.0	29.06	7.71	7,465	0.00	-451.6		7.5 ft Sonde
8:00	8/13/2024	5.88	0	N	—	21.4	7.75	7,459	0.17	-339.9		12.5 ft (YSI)(sonde line short)
15:40	8/13/2024	4.28	472	Y	0.1	22.03	6.91	6,413	0.00	-377.3	40.03	7.5 ft Sonde turb 40.03
15:45	8/13/2024	4.28	472	N	—	22.31	7.44	6,063	0.00	-471.8		2.5 ft Sonde
15:51	8/13/2024	4.28	472	N	—	21.5	7.06	5,489	1.29	-262.4		12.5 ft (YSI)(sonde line short)
7:45	8/14/2024	5.51	472	Y	1.25	22.04	6.94	6,790	0	-367.1	13.98	7.5 turb 13.98. Very dark water
8:01	8/14/2024	5.51	472	N	—	22.52	7.35	5,457	0	-418.0		2.5
8:09	8/14/2024	5.51	472	N	—	22.1	6.93	5,430	0.43	-210.6		12.5
13:00	8/14/2024	5.81	938	Y	1.0	22.12	6.76	6,470	0	-467.8	5.66	7.5' Sonde. Water very dark
12:55	8/14/2024	5.81	938	N	—	22.36	7.29	5,622	0	-505.6		2.5' Sonde
13:06	8/14/2024	5.81	938	N	—	22.4	6.66	5,071	7.7	-206.1		12.5' YSI
15:20	8/14/2024	4.14	1181	Y	2.0	22.19	6.63	6,451	0	-347.2	12.56	7.5' Sonde
15:18	8/14/2024	4.14	1181	N	—	22.42	7.28	5,753	0	-454.1		2.5'
15:37	8/14/2024	4.14	1181	N	—	22.20	6.59	5,238	0.45	-179.5		12.5 YSI
8:05	8/15/2024	4.88	1181	Y	2.0	23.19	6.82	7,028	0	-313.7	48.6	7.5' water very dark
7:58	8/15/2024	4.88	1181	N	--	22.63	7.00	5,943	0	-388.8		2.5'
8:20	8/15/2024	4.88	1181	N	--	23.2	6.44	6,007	1.28	-137.0		12.5' YSI
11:40	8/15/2024	5.42	1520	Y	--	22.50	6.66	6,489	0	-286.8	11.62	7.5' water very dark

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
11:45	8/15/2024	5.42	1525	N	--	22.58	6.94	5,508	0	-456.7		2.5'
11:53	8/15/2024	5.42	1554	N	--	22.70	6.60	5,494	--	-475.6		12.5'
13:07	8/15/2024	5.91	1688	Y	2.0	22.88	6.71	6,436	0	-224.7	15.30	7.5' water very dark
15:55	8/15/2024	4.41	1927	Y	2.8	22.79	6.60	6,731	0	-285.5	10.70	7.5' water very dark
15:57	8/15/2024	4.41	1927	N	--	22.61	7.28	5,778	0	-397.5		2.5'
16:07	8/15/2024	4.41	1927	N	--	22.90	6.83	5,596	--	-181.7		12.5 YSI
8:07	8/16/2024	4.51	1927	Y	7.5	24.14	6.73	7,054	0	-270.8	24.34	7.5' water very dark
7:55	8/16/2024	4.51	1927	N	--	22.98	6.91	5,911	0	-297.8		2.5'
8:20	8/16/2024	4.51	1927	N	--	23.20	6.48	5,940	1.24	-152.9		12.5'
10:53	8/16/2024	5.55	2181	Y	2.7	23.21	6.69	6,647	0	-234.3	40.7	7.5' water very dark
13:33	8/16/2024	6.01	2418	Y	3.5	23.37	6.53	6,744	0	-404.4	11.54	7.5'
13:45	8/16/2024	6.01	2418	N	--	22.82	7.04	6,310	0	-488.3		2.5'
13:50	8/16/2024	6.01	2438	N	--	20.20	6.66	6,124	0	-215.6		12.5'
16:07	8/16/2024	5.35	2675	Y	4.5	23.32	6.63	7,015	0	-421.0	15.39	7.5' water very dark
7:50	8/17/2024	4.28	2675	Y	6.5	24.94	6.68	7,153	0	-322.3	27.25	7.5' water very dark
7:47	8/17/2024	4.28	2675	N	--	23.36	6.93	7,043	0	-338.5		2.5'
9:32	8/17/2024	4.28	2829	N	--	23.90	7.17	6,071	0	-300.4		12.5' YSI
10:44	8/17/2024	5.05	2899	Y	3.5	24.38	6.62	6,940	0	-217.5	20.63	7.5' water very dark
13:55	8/17/2024	6.01	3136	Y	3.7	22.46	6.37	9,173	0	-414.9	37.9	7.5' water very dark

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
13:50	8/17/2024	6.01	3136	N	--	22.40	6.37	9,059	0	-415.9		2.5'
14:06	8/17/2024	6.01	3136	N	--	23.90	5.96	6,109	0	-128.1		12.5' YSI
16:55	8/17/2024	5.51	3386	Y	4.5	24.21	6.57	7,037	0	-252.3	7.43	7.5' water very dark
9:20	8/18/2024	4.55	3386	Y	5.5	25.26	6.69	7,184	0	-280.0	27.20	7.5' water dark
9:28	8/18/2024	4.55	3400	N	--	23.58	6.78	7,057	0	-292.8		2.5'
9:34	8/18/2024	4.55	3415	N	--	24.9	6.60	6,462	--	-214.0		12.5'
13:00	8/18/2024	5.78	3626	Y	6.0	24.82	6.47	7,362	0	-253.3	48.45	7.5' water less dark
16:55	8/18/2024	5.83	3861	Y	6.0	24.80	6.55	7,102	0	-277.6	13.84	7.5' dark water
16:45	8/18/2024	5.83	3861	N	--	24.38	6.62	6,703	0	-298.3		2.5'
17:03	8/18/2024	5.83	3861	N	--	24.80	6.39	6,338	0	-164.4		12.5'
7:55	8/19/2024	4.94	3861	N	--	25.68	6.63	6,990	0	-229.1		7.5'
8:00	8/19/2024	4.94	3861	N	--	24.36	6.79	6,907	0	-232.8		2.5'
8:25	8/19/2024	4.94	3880	N	--	25	6.26	6,656	0	-154.1		12.5'
12:00	8/19/2024	4.87	4095	N	--	25.14	6.63	7,162	0	-225.5		7.5'
17:55	8/19/2024		4329	Y	7.5	26.26	6.66	7,196	0	-243.7	30.28	7.5'
18:02	8/19/2024		4329	N	--	24.34	6.85	6,443	0	-255.5		2.5'
18:18	8/19/2024		4329	N	--	24.76	6.51	6,118	--	-126.6		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-01**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
9:28	8/13/2024	6.14	0	N	NA	27.8	6.78	11,225	0.77	-232.8		2.5' tubing
9:34	8/13/2024	6.15	0	Y	0.1	28.0	6.80	10,655	0.52	-240.3		7.5' tubing
16:58	8/13/2024	4.25	472	N	NA	26.7	6.78	12,670	1.22	-268.6		2.5' tubing
17:03	8/13/2024	4.25	472	Y	0.1	27.7	6.84	12,736	0.81	-264.9	7.30	7.5' tubing
8:45	8/14/2024	5.67	472	N	NA	24.6	6.77	11,830	1.37	-255.4	3.09	2.5' YSI Peri
8:35	8/14/2024	5.67	472	Y	0.1	24.6	6.82	10,899	0.67	-251.0	5.90	7.5' YSI peri
16:34	8/14/2024	4.06	1181	Y	0.1	25.1	6.76	11,813	1.09	-293.8	2.14	7.5' YSI Peri
16:38	8/14/2024	4.06	1181	N	--	24.3	6.73	11,775	1.42	-290.6		2.5 YSI Peri
9:07	8/15/2024	5.3	1212	N	--	24.1	6.90	11,189	2.33	-237.3		2.5 YSI Peri
8:49	8/15/2024	5.3	1181	Y	0.2	25.4	6.97	10,471	2.74	-209.8	38.45	7.5 YSI Peri
8:45	8/16/2024	4.75	1955	N	--	24.5	6.79	12,117	1.38	-200.3		2.5' YSI Peri
8:50	8/16/2024	4.75	1967	Y	1.0	23.7	6.85	12,301	0.98	-257.6	13.45	7.5' YSI peri
9:23	8/17/2024	4.34	2810	N	--	25.2	6.15	12,963	0.03	-243.1		2.5'
9:27	8/17/2024	4.34	2814	Y	0.2	24.7	6.17	13,205	0.04	-241.6	17.31	7.5'
9:10	8/18/2024	4.3	3386	Y	0.3	25.0	6.76	13,645	3.26	-305.0		7.5'
9:15	8/18/2024	4.3	3386	N	--	24.4	6.77	13,707	3.21	-298.8		2.5'
16:00	8/19/2024	6.13	4329	Y	--	27.8	6.85	13,724	3.77	-310.1	6.6	7.5'
16:05	8/19/2024	6.13	4329	N	--	26.1	6.81	13,709	3.75	-306.1		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:27	8/13/2024	5.96	0	N	NA	27.0	6.58	11,130	1.44	-145.0		2.5 ft tubing
8:34	8/13/2024	5.95	0	Y	3.5	27.6	6.54	10,188	0.97	-101.6		7.5 ft tubing
16:34	8/13/2024	4.30	472	N	NA	30.1	6.57	11,907	0.55	-143.0	2.49	2.5 ft tubing
16:39	8/13/2024	4.30	472	Y	2.25	28.6	6.55	11,893	1.00	-161.9	9.44	7.5 ft tubing
8:12	8/14/2024	5.67	472	N	--	24.7	6.56	10,955	1.90	-161.0		2.5' YSI Peri
8:22	8/14/2024	5.67	472	Y	2.0	24.3	6.73	10,504	0.91	-212.7	32.02	7.5' YSI Peri
16:18	8/14/2024	4.19	1181	N	--	24.6	6.53	11,154	1.16	-257.7		2.5' YSI Peri
16:23	8/14/2024	4.19	1181	N	3.5	24.2	6.50	11,212	1.11	-257.4	0.33	7.5' YSI Peri
8:33	8/15/2024	5.31	1181	N	--	24.5	6.54	11,695	1.37	-138.8		2.5' YSI Peri
8:37	8/15/2024	5.31	1181	Y	2.5	24.0	6.62	11,751	1.81	-174.7	0.00	7.5' YSI Peri
8:31	8/16/2024	4.73	1927	N	--	25.2	6.49	11,288	1.86	-115.3		2.5' YSI Peri
8:32	8/16/2024	4.73	1927	Y	2.0	23.7	6.52	11,748	1.23	-139.2	10.75	7.5' YSI Peri
8:45	8/17/2024	4.05	2768	N	--	25.1	5.97	12,231	0.03	-202.5		2.5' YSI Peri
8:50	8/17/2024	4.05	2778	Y	2.5	24.9	5.97	12,618	0.02	-191.5	1.23	7.5' YSI Peri
8:45	8/18/2024	4.32	3386	Y	2.5	24.6	6.50	13,204	4.58	-255.9	2.18	7.5' YSI Peri
8:52	8/18/2024	4.32	3386	N	--	24.5	6.47	12,979	4.32	-269.4		2.5' YSI Peri
16:13	8/19/2024	6.03	4329	N	--	27.8	6.57	12,613	5.62	-293.1		2.5'
16:18	8/19/2024	6.03	4329	Y	--	25.6	6.62	12,792	6.22	-283.1	1.13	7.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:12	8/13/2024	5.71	0	Y	1.75	32.99	6.44	14,477	0.00	-368.4		7.5 ft Sonde
8:17	8/13/2024	5.71	0	N	--	32.26	6.62	10,985	0.00	-375.1		2.5 ft Sonde
15:51	8/13/2024	4.09	472	Y	0.5	22.07	6.61	12,092	0.00	-369.1	159.0	7.5 ft Sonde turb 159.0
16:09	8/13/2024	4.09	472	N	--	22.71	6.58	12,314	0.00	-368.6		2.5 ft Sonde
8:37	8/14/2024	5.58	472	Y	1.25	21.88	6.49	14,087	0.00	-370.7		7.5' Sonde
8:40	8/14/2024	5.58	472	N	--	22.95	6.58	12,197	0.00	-374.9		2.5' Sonde
13:10	8/14/2024	5.57	938	Y	0.5	22.14	6.74	10,153	0.00	-378.6	94.4	7.5'
13:07	8/14/2024	5.57	938	N	--	22.74	6.66	11,221	0	-376.3		2.5' Sonde
15:40	8/14/2024	3.79	1181	Y	1.0	22.09	7.10	6,909	0	-383.1	91.68	7.5'
15:27	8/14/2024	3.79	1181	N	--	22.49	6.80	9,379	0	-379.4		2.5' Sonde
8:40	8/15/2024	4.68	1181	Y	1.5	21.93	6.57	11,685	0	-325.3	109.0	7.5'
8:05	8/15/2024	4.68	1181	N	--	22.80	6.54	10,805	0	-322.7		2.5'
12:02	8/15/2024	5.20	1570	Y	1.3	22.25	7.02	6,088	0	-351.0	2.85	7.5'
12:05	8/15/2024	5.20	1578	N	--	22.65	6.66	10,447	0	-343.5		2.5'
13:22	8/15/2024	5.64	1688	Y	1.1	22.21	6.76	9,237	0	-344.1	12.91	7.5' dark water
16:15	8/15/2024	3.94	1927	Y	1.0	22.17	6.86	7,084	0	-347.5	36.94	7.5' dark water
16:20	8/15/2024	3.94	1927	N	--	22.57	6.67	8,622	0	-347.3		2.5'
8:30	8/16/2024	4.31	1927	Y	1.3	22.02	6.47	13,536	0	-325.0	84.68	7.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:04	8/16/2024	4.31	1927	N	--	22.76	6.49	13,815	0	-325.4		2.5'
10:41	8/16/2024	5.27	2181	Y	1.5	22.34	7.01	7,699	0	-359.5	31.88	7.5' water dark
13:20	8/16/2024	5.73	2421	Y	2.0	22.32	6.61	8,939	0	-360.3	20.41	7.5' water dark
13:30	8/16/2024	5.73	2421	N	--	23.00	6.56	8,028	0	-366.0		2.5'
15:45	8/16/2024	4.89	2675	Y	1.7	22.34	6.81	7,320	0	-406.3	20.39	7.5' water dark
7:54	8/17/2024	4.03	2675	Y	6.0	22.16	6.47	13,400	0	-360.8	89.40	7.5' water dark
7:56	8/17/2024	4.03	2678	N	--	22.63	6.44	13,881	0	-360.9		2.5'
10:35	8/17/2024	4.80	2899	Y	1.8	22.40	6.44	9,125	0	-400.9	19.72	7.5' water very dark
13:45	8/17/2024	5.72	3136	Y	2.5	22.47	6.41	9,084	0	-392.9		7.5' water very dark
13:47	8/17/2024	5.72	3136	N	--	22.78	6.51	9,663	0	-410.2		2.5'
17:05	8/17/2024	5.03	3386	Y	> 7.0	22.41	7.10	6,514	0	-468.0	16.80	7.5' water very dark
8:36	8/18/2024	4.14	3386	Y	--	22.39	6.44	13,959	0	-403.3	8.97	7.5' water very dark
8:47	8/18/2024	4.14	3386	N	--	22.86	6.45	13,931	0	-403.4		2.5'
12:52	8/18/2024	5.45	3626	Y	3.5	22.57	6.34	8,453	0	-467.9	15.99	7.5' water very dark
16:30	8/18/2024	5.55	3861	Y	2.0	22.66	6.30	9,957	0	-419.2	14.75	7.5' very dark water
16:25	8/18/2024	5.55	3861	N	--	22.67	6.32	11,088	0	-426.1		2.5'
8:03	8/19/2024	4.67	3861	N	--	22.60	6.43	15,391	0	-444.1		7.5'
8:06	8/19/2024	4.67	3861	N	--	22.88	6.43	15,549	0	-444.4		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
11:58	8/19/2024	4.60	4095	N	--	22.77	6.35	9,509	0	-409.5		7.5'
17:45	8/19/2024	5.98	4329	Y	2.5	22.89	6.33	13,394	0	-414.9	12.41	7.5' water very dark
18:04	8/19/2024	5.98	4329	N	--	23.47	6.37	10,396	0	-349.8		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ **MCM-06**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Existing monitoring well and pump

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
9:45	8/13/2024	8.60	0	Y	0.0	26.6	7.10	9,220	0.24	-310.5	Not recorded	Midscreen - purged with existing pump
17:44	8/13/2024	6.92	472	Y	0.0	26.0	7.05	9,387	0.39	-330.6	5.02	
9:26	8/14/2024	8.00	637	Y	0.0	24.9	7.17	8,949	1.12	-315.8	1.80	
15:52	8/14/2024	--	1181	Y	0.0	25.0	7.17	8,747	0.96	-268.1	1.79	
9:13	8/15/2024	7.60	1233	Y	0.0	24.1	7.15	9,305	1.33	-296.7	0.37	
8:58	8/16/2024	7.14	1983	Y	0.0	26.0	6.97	9,506	1.76	-305.6	1.30	
8:33	8/17/2024	6.51	2743	Y	0.0	24.3	6.30	9,658	4.62	-262.8	1.56	
8:23	8/18/2024	6.99	3386	Y	0.0	23.7	6.97	10,324	3.21	-268.9	4.28	
15:40	8/19/2024	8.72	4329	Y	0.0	29.8	6.94	9,670	0.05	-309.2	2.22	

ARCADIS Design & Consultancy for natural and built assets

Instrument Calibration

Project Name: McManus Pilot Injection **Date/s:** 8/12 - 8/16

Project Number: _____ **Calibrating Personnel:** Jessica Ware

Date / Time: 8/12 1541 Instrument/s: YSI ProPlus 19J1039168
Weather: Partly Cloudy 93°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	6.97	7.0	7.00
pH 4.0	4.01	4.0	4.01
pH 10.0	10.05	10.0	10.00
Sp. Conductivity (ms/cm)	0.990	1.000 +413	0.999
ORP (mV)	178.8	200 240	200.0
Dissolved Oxygen (%)	90.5	100%	101.5
Turbidity (NTU)	0.00	0.02	002
Notes:	10.03	10.0	10.00
	1,051	1,000	1,000

Barometric Pressure = 781.9 mm Hg

Date / Time: 8/13 0724 Instrument/s: YSI Pro Plus & Micro same & 20231002554
Weather: Clear 86°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	4.05	7.0	6.97
pH 4.0	4.12	4.0	4.00
pH 10.0	10.10	10.0	10.00
Sp. Conductivity (ms/cm)	1.048	1.000 +413	1.001
ORP (mV)	20054	200 240	200.3
Dissolved Oxygen (%)	116.0	100%	107.7
Turbidity (NTU)	004	0.02	0.01
Notes:	9.83	10.0	10.04
	973.1	1,000	1,002

Barometric Pressure = 782.9 mm Hg

Date / Time: 8/13 1257 Instrument/s: YSI Pro Plus 18C1036059
Weather: Clear 94°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	6.95	7.0	6.97
pH 4.0	4.05	4.0	4.01
pH 10.0	10.08	10.0	10.00
Sp. Conductivity (ms/cm)	1.210	1.000 +413	1.001
ORP (mV)	182.2	200 240	200.0
Dissolved Oxygen (%)	87.2	100%	99.7
Turbidity (NTU)		NA	

Notes:

Barometric Pressure = 769.6 mm Hg

Date / Time: 8/14 0734 Instrument/s: YSI ProPlus & Micro 19J1039168 & 20230025
Weather: Overcast 77°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	6.94	7.0	7.00
pH 4.0	3.98	4.0	4.00
pH 10.0		10.0	
Sp. Conductivity (ms/cm)	1.065	1.000 +413	1.001
ORP (mV)	195.1	200 240	200.0
Dissolved Oxygen (%)		100%	
Turbidity (NTU)	0.02	0.02	0.02
Notes:	9.83	10	9.94
	1,011	1,000	1,000

Barometric Pressure = 782.6 mm Hg

Clear/Cloudy 77°F Micro Turb: 2023

8/15/24 0946 YSI ProPlus: 19J10

	pre	std	post
pH 7	6.99	7	6.98
pH 4	4.11	4	4.00
pH 10	10.09	10	10.00
Cond	0.946	1.000 mS/cm	0.999
ORP	207.0	200 mV	200.2
DO %	79.3	100%	103.1
Turbidity	0.46	0.02	0.01
	8.63	10.0	10.02
	1,022	1,000	1,013

Barometer: 784.0 mm Hg

Clear 71°F

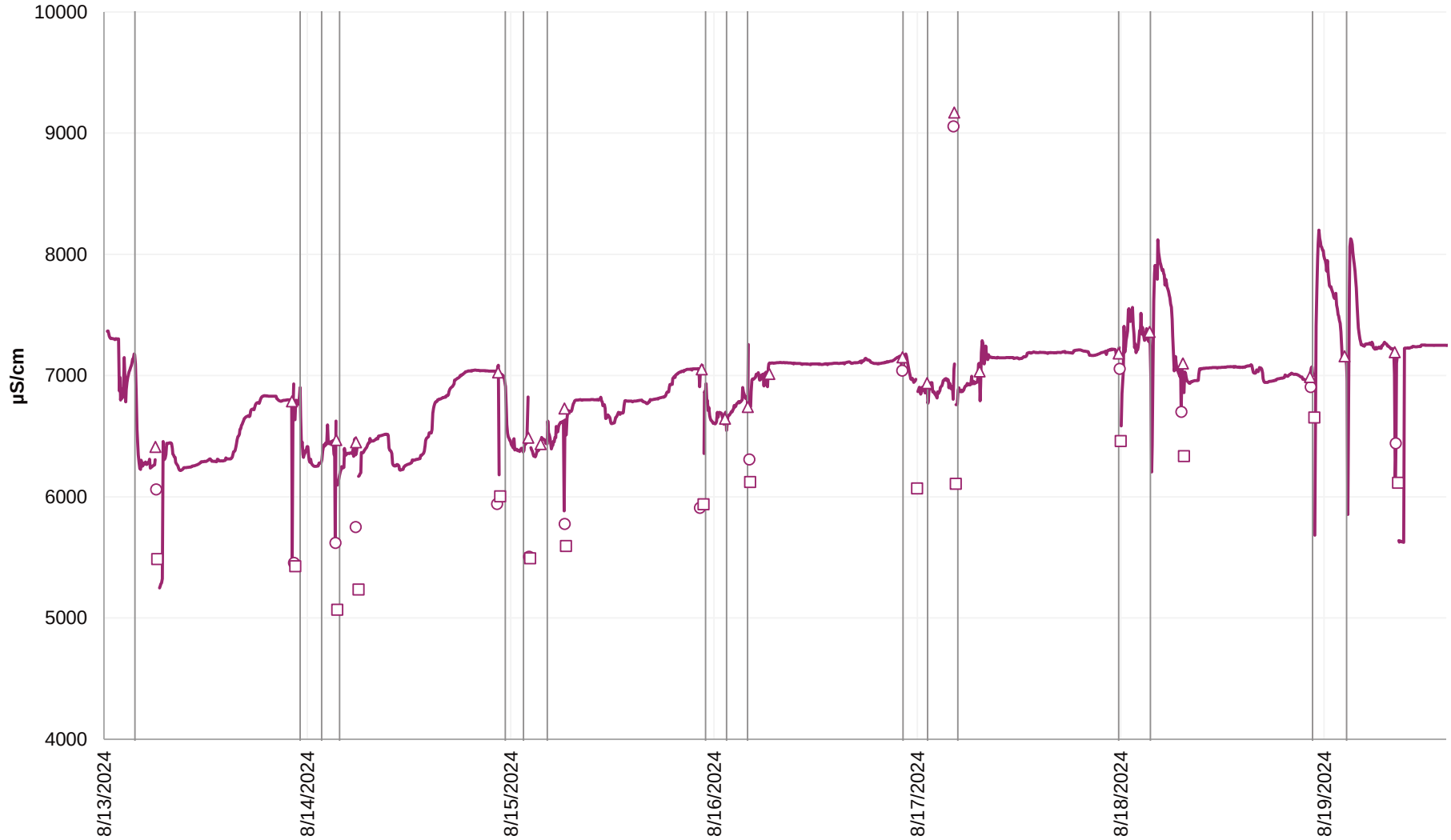
8/16/24 0740 YSI Pro Plus Micro

	pre	std	post
pH 7	6.97	7	7.00
pH 4	3.97	4	4.00
pH 10	10.01	10	10.00
ORP	200.6	200	200.0
Cond	0.994	1.000	0.999
DO %	114.8	100%	102.2
Turbidity	0.41	0.02	0.02
	12.12	10	10.06
	1100	1,000	992.9

Barometer: 784.6

Appendix E

Field Parameter Data



Legend

- Injection Batch
- DR-03
- FP - 2.5 ft
- FP - 7.5 ft
- FP - 12.5 ft

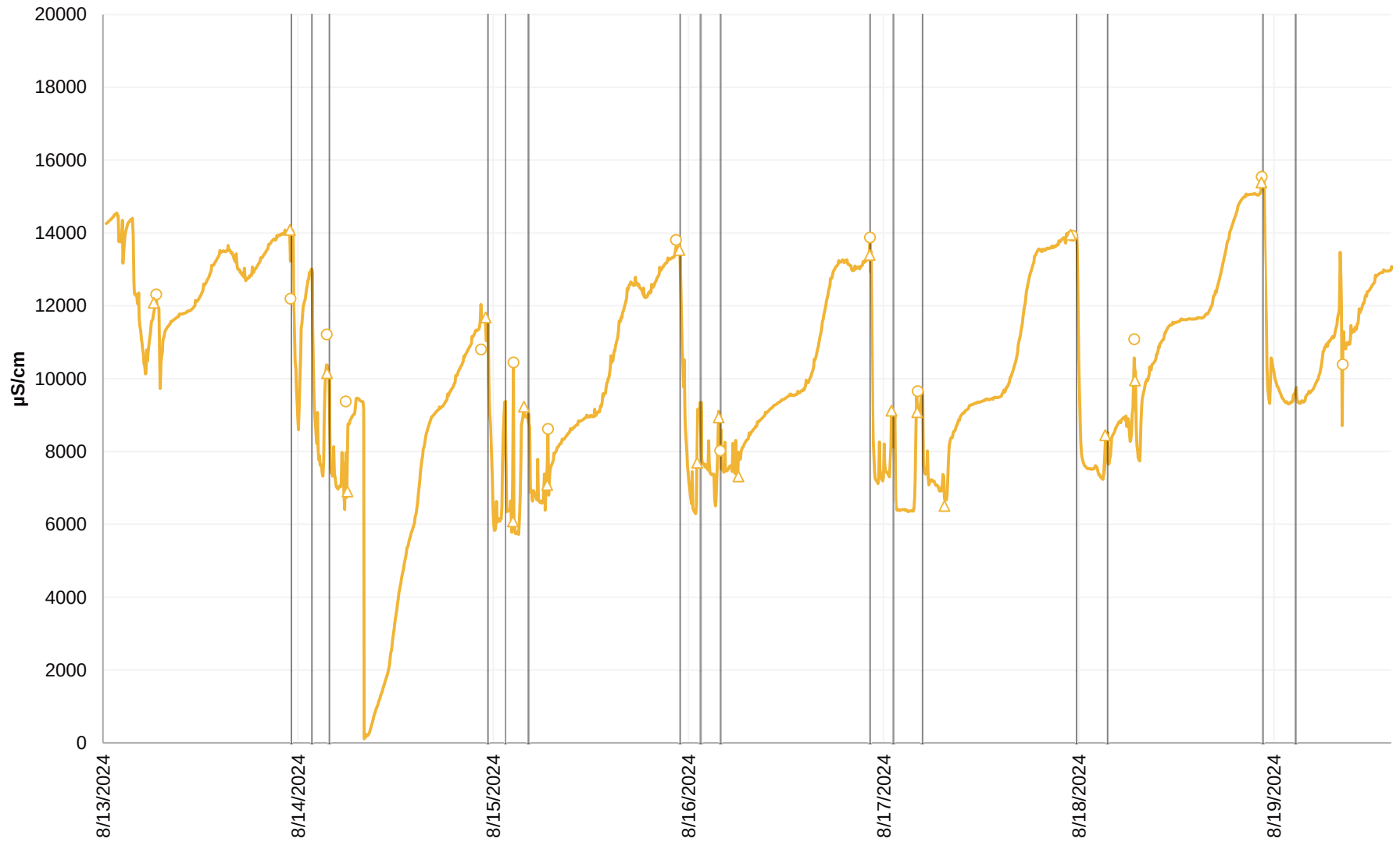
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
µS/cm = microSiemens per centimeter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

DR-03 SPECIFIC CONDUCTIVITY AND INJECTION TIME SERIES

ARCADIS

FIGURE
E1



Legend

- Injection Batch
- PT-03
- FP - 2.5 ft
- FP - 7.5 ft

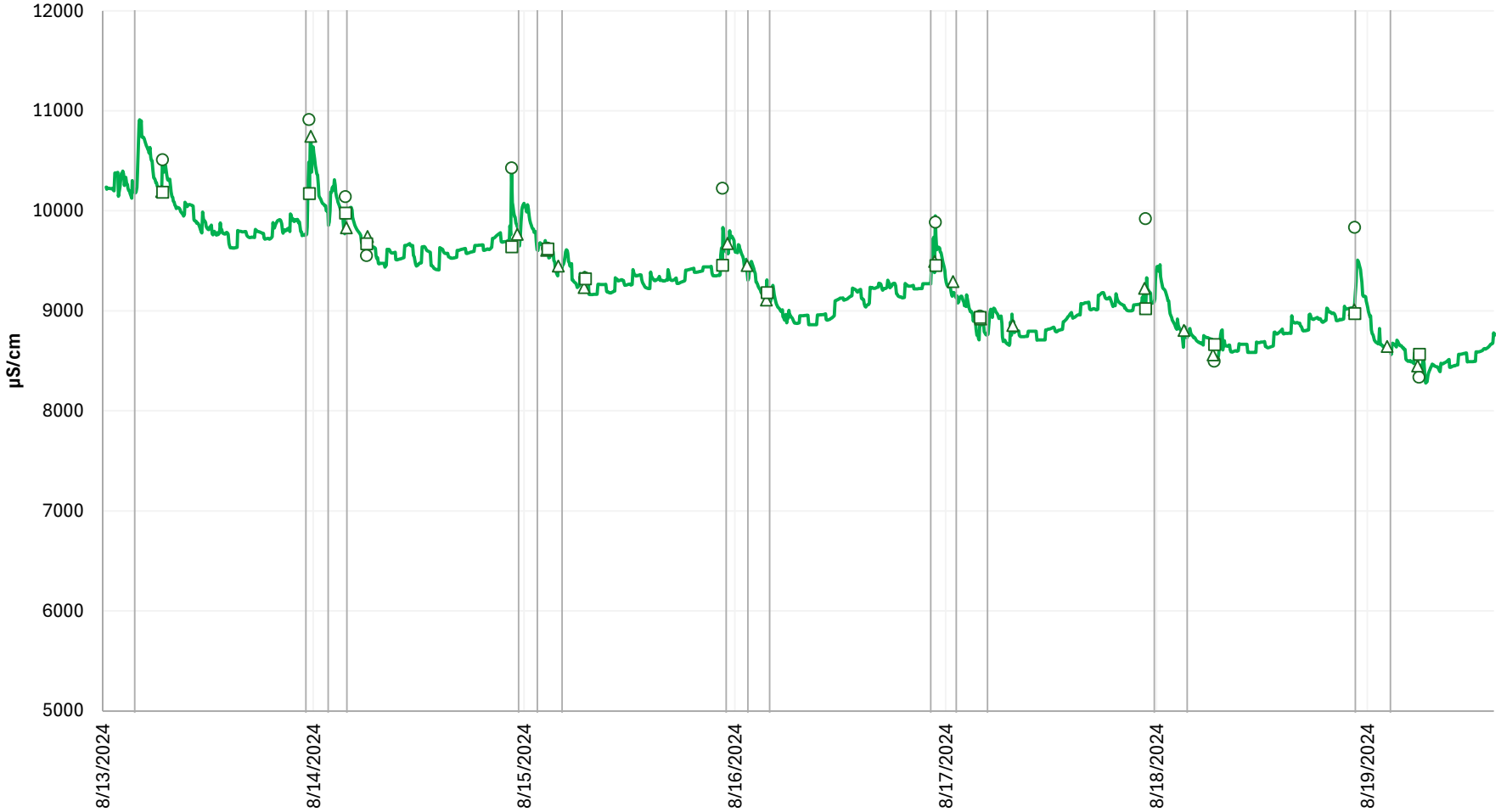
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
µS/cm = microSiemens per centimeter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

PT-03 SPECIFIC CONDUCTIVITY AND INJECTION TIME SERIES

ARCADIS

FIGURE
E2



Legend

- Injection Batch
- DR-02
- FP - 2.5 ft
- FP - 7.5 ft
- FP - 12.5 ft

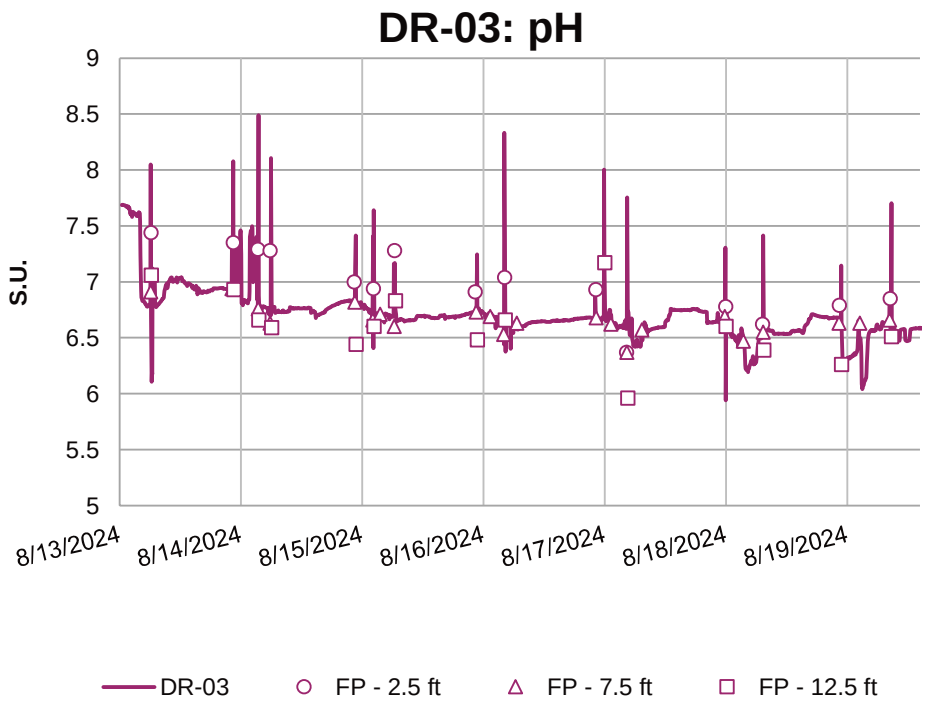
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
µS/cm = microSiemens per centimeter

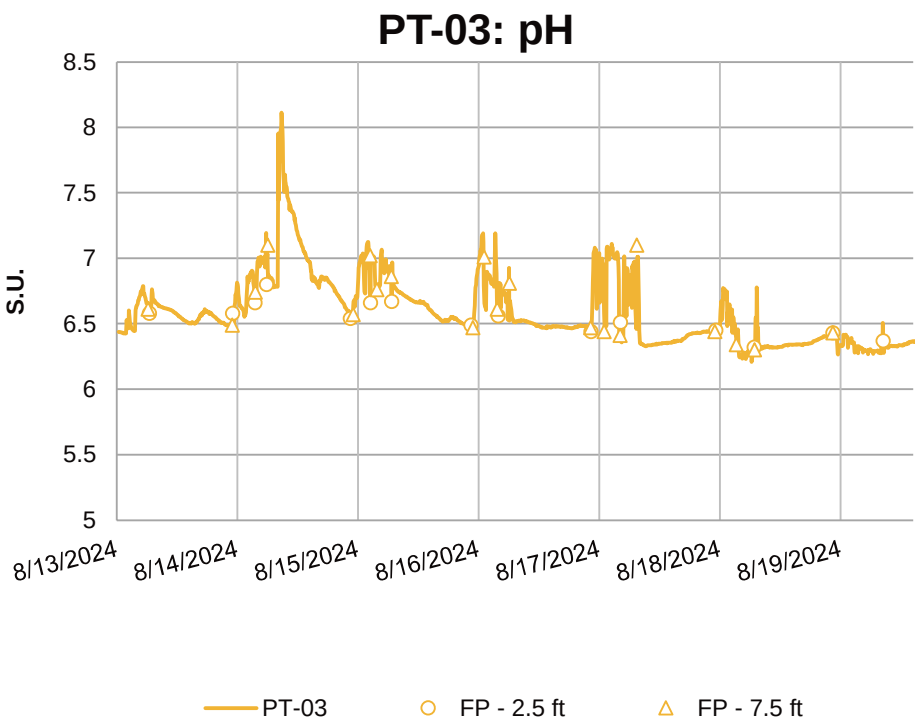
GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

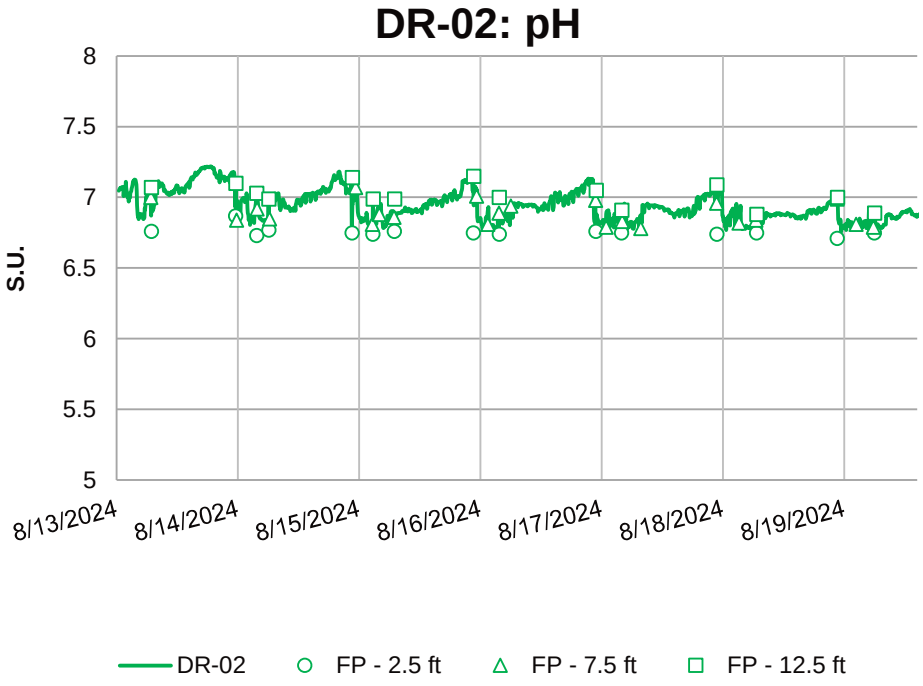
DR-02 SPECIFIC CONDUCTIVITY AND INJECTION TIME SERIES

ARCADIS

FIGURE
E3







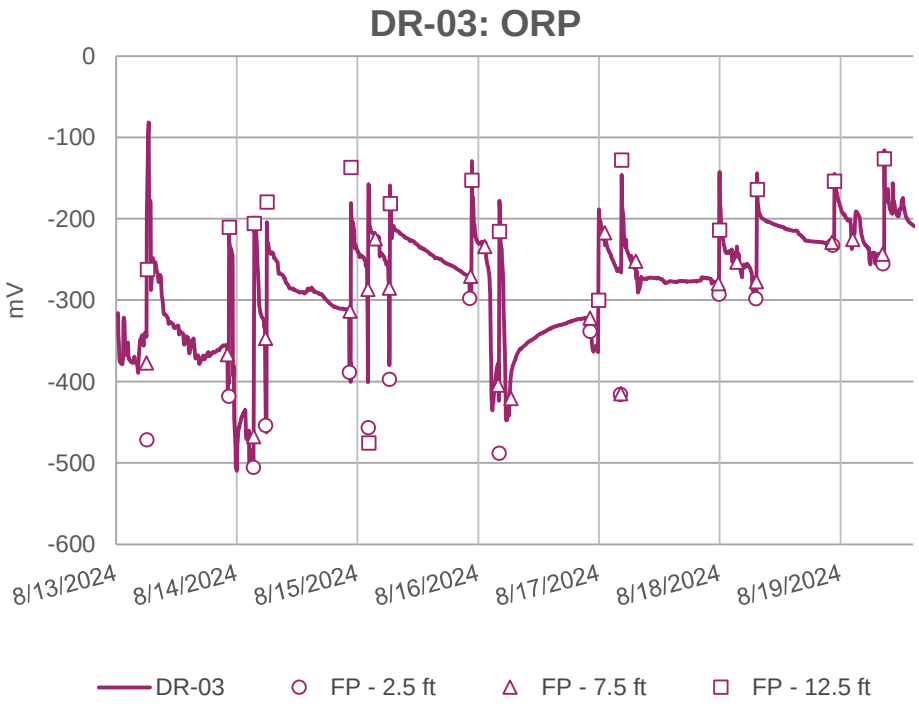
Notes:
1. Field parameter number shown indicates depth from top of screen..
FP = field parameter grab measurement within screened interval
ft = feet
mV = millivolt
S.U. = Standard Units

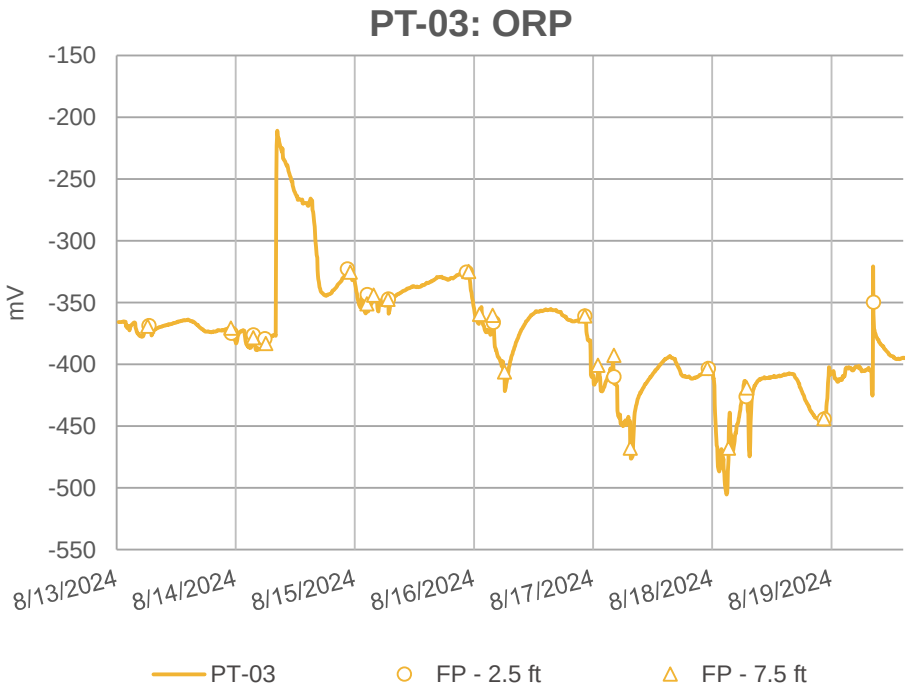
GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

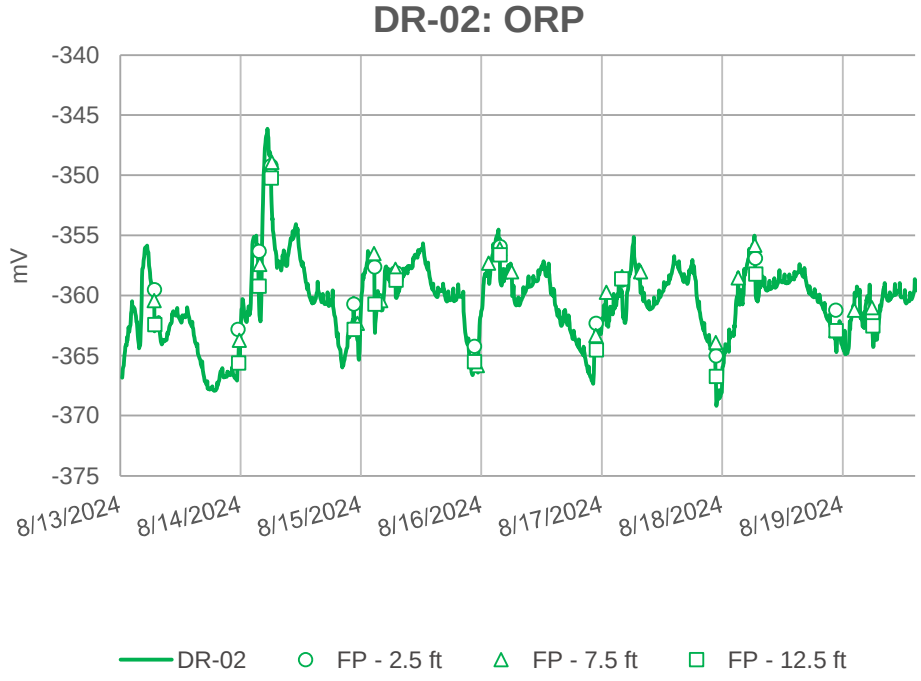
PH TIME SERIES – DOSE RESPONSE WELLS

ARCADIS

FIGURE
E4







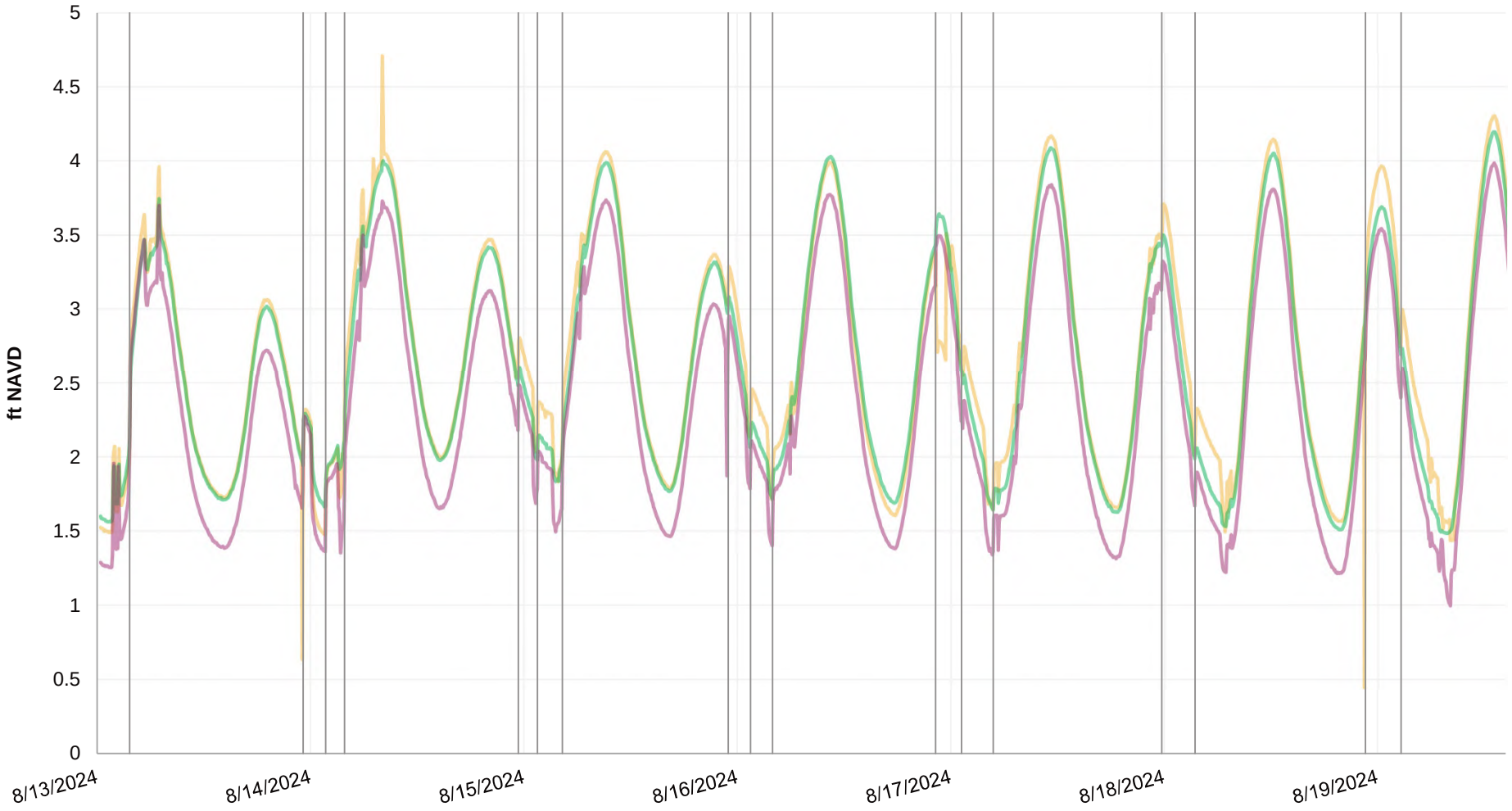
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
mV = millivolt
ORP = oxidation-reduction potential

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ORP TIME SERIES – DOSE RESPONSE WELLS

ARCADIS

FIGURE
E5



Legend

- PT-03 Elevation (ft NAVD)
- DR-02 Elevation (ft NAVD)
- DR-03 Elevation (ft NAVD)

Note:
ft NAVD = feet North American Vertical Datum of 1988

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

GROUNDWATER ELEVATION – DOSE RESPONSE WELLS

ARCADIS

FIGURE
E6

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Appendix B

Field Instrumentation Calibration Form

Site Name: McKinnis ACM

Date: 8/27/24

Calibrated By: KMS

Field Conditions: 88° | 73°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	1586-3019

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.2	23.87	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,180.4	24.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	24.52	± 0.1	GWMP
pH (SU)	7.00	6.98	24.78	± 0.1	GWMP
pH (SU)	10.00	10.07	24.88	± 0.1	GWMP
ORP (mV)	228.0	224.0	24.90	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.04	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	9.51		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4519.3	27.43	± 10% of standard	EPA 2023
pH (SU)	4.00	4.13	27.42	± 0.1	GWMP
pH (SU)	7.00	7.15	27.89	± 0.1	GWMP
pH (SU)	10.00	10.07	28.25	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.03	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	9.85		

Notes:

Field Instrumentation Calibration Form

Site Name: McManus AFM

Date: 8/28/24

Calibrated By: KDS

Field Conditions: 90°/77°, 30%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.30	24.61	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,480.4	24.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.93	± 0.1	GWMP
pH (SU)	7.00	7.02	24.97	± 0.1	GWMP
pH (SU)	10.00	9.98	24.94	± 0.1	GWMP
ORP (mV)	228.0	227.3	24.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.09	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	10.09		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,611.1	30.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	30.49	± 0.1	GWMP
pH (SU)	7.00	7.20	30.19	± 0.1	GWMP
pH (SU)	10.00	10.10	30.29	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.03	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	10.03		

Notes:

Site Name: Plant McManus

Calibrated By: Natalie Piparo

Field Instrumentation Calibration Form

Date: 9/5/24

Field Conditions: L 75 H 82 rainy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:30	Time Finish	7:42		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.30	25.09	± 10%	NA
Specific Conductance (µS/cm)	4,490	5132.3	25.27	± 10% of standard	EPA 2023
pH (SU)	4.00	4.25	25.38	± 0.1	GWMP
pH (SU)	7.00	7.05	25.45	± 0.1	GWMP
pH (SU)	10.00	10.04	25.52	± 0.1	GWMP
ORP (mV)	228.0	219.8	25.54	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.21		
	10.00	9.95		

Calibration Check					
Time Start	17:07	Time Finish	17:22		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	3935.6	25.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	25.01	± 0.1	GWMP
pH (SU)	7.00	7.16	24.99	± 0.1	GWMP
pH (SU)	10.00	10.16	24.89	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.91		

Notes:

Site Name McKinnis ACM

Field Instrumentation Calibration Form

Date 9/5/24

Calibrated By KMS

Field Conditions 82°/72°, 70%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4 490	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	4 00	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	7 00	24008587	06/2025	Atlanta Instrument Rental, Inc
pH (SU)	10 00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D O (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc
ORP (mV)	228 0	24011792	06/2025	Atlanta Instrument Rental, Inc

Calibration					
Time Start	0720	Time Finish	0756		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D O (%)	N/A	97.65	24.78	± 10%	NA
Specific Conductance (µS/cm)	4,490	4925.0	24.88	± 10% of standard	EPA 2023
pH (SU)	4 00	4.04	24.84	± 0.1	GWMP
pH (SU)	7.00	7.04	24.83	± 0.1	GWMP
pH (SU)	10.00	10.0	24.87	± 0.1	GWMP
ORP (mV)	228 0	226.2	24.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0 00	-0.02	± 10% of standard	EPA 2023
	1 00	1.05		
	10.00	10.14		

Calibration Check					
Time Start	1701	Time Finish	1721		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4422.9	25.02	± 10% of standard	EPA 2023
pH (SU)	4 00	4.15	25.02	± 0.1	GWMP
pH (SU)	7.00	7.16	24.91	± 0.1	GWMP
pH (SU)	10 00	10.16	24.93	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.23	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	9.73		

Notes

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/12/24

Calibrated By: Natalie Pigaro

Field Conditions: H 83 L 75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:19	Time Finish	8:34		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.61	25.04	± 10%	NA
Specific Conductance (µS/cm)	4,490	4701.9	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	25.04	± 0.1	GWMP
pH (SU)	7.00	6.92	24.93	± 0.1	GWMP
pH (SU)	10.00	9.99	24.85	± 0.1	GWMP
ORP (mV)	228.0	228.8	24.81	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	10.09		

Calibration Check					
Time Start	16:42	Time Finish	16:47		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4510.5	25.66	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.66	± 0.1	GWMP
pH (SU)	7.00	7.16	25.58	± 0.1	GWMP
pH (SU)	10.00	10.17	25.41	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.17		

Notes:

Field Instrumentation Calibration Form

Site Name: McManus

Calibrated By: Jay Stewart

Date: 9/12/24

Field Conditions: 84°/76°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTrol 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0818	Time Finish	0824		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.67	25.53	± 10%	N/A
Specific Conductance (µS/cm)	4,490	45083	25.53	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.54	± 0.1	GWMP
pH (SU)	7.00	7.01	25.34 ~~25.53~~	± 0.1	GWMP
pH (SU)	10.00	10.00	25.38	± 0.1	GWMP
ORP (mV)	228.0	228.0	25.33	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.85		

Calibration Check					
Time Start	1635	Time Finish	1642		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4456.4	26.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	26.32	± 0.1	GWMP
pH (SU)	7.00	7.06	26.15	± 0.1	GWMP
pH (SU)	10.00	9.95	25.99	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.77		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/17/24

Calibrated By: Natalie Pipano

Field Conditions: L 64 H 84

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:45	Time Finish	8:03		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.94	20.02	± 10%	NA
Specific Conductance (µS/cm)	4,490	4631.5	19.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	19.94	± 0.1	GWMP
pH (SU)	7.00	7.05	19.92	± 0.1	GWMP
pH (SU)	10.00	10.04	19.89	± 0.1	GWMP
ORP (mV)	228.0	234.7	19.95	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.04	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	10.08		

Calibration Check					
Time Start	17:11	Time Finish	17:23		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	44043.2	29.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	29.82	± 0.1	GWMP
pH (SU)	7.00	7.17	30.51	± 0.1	GWMP
pH (SU)	10.00	10.18	29.87	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	10.00		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/17/24

Calibrated By: Jay Sievert

Field Conditions: 83°/62°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	~~8506~~ 850762
Turbidity Meter	LaMotte 2020	~~1516-3019~~ 2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0759	**Time Finish**	0811		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	~~101~~ 100.97	20.15	± 10%	NA
Specific Conductance (µS/cm)	4,490	4497.3	20.22	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	20.30	± 0.1	GWMP
pH (SU)	7.00	7.00	20.52	± 0.1	GWMP
pH (SU)	10.00	10.02	20.69	± 0.1	GWMP
ORP (mV)	228.0	235.8	20.51	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	9.99		

Calibration Check					
Time Start	1710	**Time Finish**	1726		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4501.6	28.63	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	28.97	± 0.1	GWMP
pH (SU)	7.00	7.05	28.83	± 0.1	GWMP
pH (SU)	10.00	10.10	29.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	10.08		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/18/24

Calibrated By: Natalie Piparo

Field Conditions: L70 H83

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10480297
Turbidity Meter	LaMotte 2020	1671-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:28	Time Finish	8:47		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.65	23.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4479.4	23.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.14	± 0.1	GWMP
pH (SU)	7.00	7.01	24.32	± 0.1	GWMP
pH (SU)	10.00	10.02	24.41	± 0.1	GWMP
ORP (mV)	228.0	220.2	24.30	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	9.99		

Calibration Check					
Time Start	15:01	Time Finish	15:07		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4526.1	28.15	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	28.13	± 0.1	GWMP
pH (SU)	7.00	7.12	28.08	± 0.1	GWMP
pH (SU)	10.00	10.18	28.77	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	10.00		

Notes:

Site Name: Plant McMunns

Field Instrumentation Calibration Form

Date: 10/1/24

Calibrated By: Natalie Piparo

Field Conditions: H 85 L 71

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10 8U 797
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:56	**Time Finish**	8:20		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	94.49	24.90	± 10%	NA
Specific Conductance (µS/cm)	4,490	4484.7	24.76	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	24.77	± 0.1	GWMP
pH (SU)	7.00	7.13	24.91	± 0.1	GWMP
pH (SU)	10.00	10.03	25.11	± 0.1	GWMP
ORP (mV)	228.0	221.4	25.31	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	10.22		

Calibration Check					
Time Start	17:49	**Time Finish**	17:50		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4603.2	29.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.11	29.70	± 0.1	GWMP
pH (SU)	7.00	7.16	29.21	± 0.1	GWMP
pH (SU)	10.00	10.15	30.23	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	9.99		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/1/24

Calibrated By: Jay Stewart

Field Conditions: 85°/69°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0800	Time Finish	0811		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.87	24.65	± 10%	NA
Specific Conductance (µS/cm)	4,490	4490.2	24.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	24.94	± 0.1	GWMP
pH (SU)	7.00	7.06	24.92	± 0.1	GWMP
pH (SU)	10.00	10.05	24.98	± 0.1	GWMP
ORP (mV)	228.0	225.0	24.99	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	9.99		

Calibration Check					
Time Start	1742	Time Finish	1753		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4587.7	30.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	30.02	± 0.1	GWMP
pH (SU)	7.00	7.07	29.76	± 0.1	GWMP
pH (SU)	10.00	10.04	29.69	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	10.07		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/2/24

Calibrated By: Natalie Piparo

Field Conditions: L71 / H82

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:11	**Time Finish**	8:26		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	110.08	26.33	± 10%	NA
Specific Conductance (µS/cm)	4,490	4523.2	25.74	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	26.47	± 0.1	GWMP
pH (SU)	7.00	7.01	25.73	± 0.1	GWMP
pH (SU)	10.00	10.02	25.33	± 0.1	GWMP
ORP (mV)	228.0	229.6	24.95	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	10.28		

Calibration Check					
Time Start	11:03	**Time Finish**	11:09		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4580.5	30.14	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	30.13	± 0.1	GWMP
pH (SU)	7.00	7.14	30.23	± 0.1	GWMP
pH (SU)	10.00	10.10	31.80	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.16		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/3/24

Calibrated By: Jay Stewart

Field Conditions: 84°/55°

Instrument	Manufacturer/Model	Serial Number
Water Quality Meter	AquaTroll 400	850761
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	08/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0811	Time Finish	0824		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.47	22.61	± 10%	NA
Specific Conductance (µS/cm)	4,490	45528	22.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.92	± 0.1	GWMP
pH (SU)	7.00	6.99	23.25	± 0.1	GWMP
pH (SU)	10.00	9.99	23.38	± 0.1	GWMP
ORP (mV)	228.0	229.9	23.28	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.19		

Calibration Check					
Time Start	1103	Time Finish	1113		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	42577	33.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	33.71	± 0.1	GWMP
pH (SU)	7.00	7.10	35.52	± 0.1	GWMP
pH (SU)	10.00	9.99	36.61	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.07		
	10.00	9.86		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/15/24

Calibrated By: Natalie Piparo

Field Conditions: H77 L54

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	7042-3818
Turbidity Meter	LaMotte 2020	1080297

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:29	**Time Finish**	07:40		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	91.89	16.64	± 10%	NA
Specific Conductance (µS/cm)	4,490	4631.4	16.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	16.91	± 0.1	GWMP
pH (SU)	7.00	7.07	16.98	± 0.1	GWMP
pH (SU)	10.00	10.10	17.02	± 0.1	GWMP
ORP (mV)	228.0	237.6	16.81	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.05		
	10.00	10.20		

Calibration Check					
Time Start	17:58	**Time Finish**	18:09		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4449.0	26.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.15	26.97	± 0.1	GWMP
pH (SU)	7.00	7.15	27.06	± 0.1	GWMP
pH (SU)	10.00	10.04	27.15	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	9.99		

Notes:

Site Name: Plant McManus

Calibrated By: Jay Sievert

Field Instrumentation Calibration Form

Date: 10/15/24

Field Conditions: 77°/50°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0722	**Time Finish**	0740		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.03	16.64	± 10%	NA
Specific Conductance (µS/cm)	4,490	4484.6	16.32	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	16.27	± 0.1	GWMP
pH (SU)	7.00	7.04	15.73	± 0.1	GWMP
pH (SU)	10.00	10.10	15.57	± 0.1	GWMP
ORP (mV)	228.0	237.6	15.47	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.71		

Calibration Check					
Time Start	1752	**Time Finish**	1808		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4443.3	22.75	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	23.36	± 0.1	GWMP
pH (SU)	7.00	~~7.10~~ 7.06	23.60	± 0.1	GWMP
pH (SU)	10.00	10.09	25.03	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.81		

Notes:

Site Name: Plant McManus

Calibrated By: Jay Siewert

Field Instrumentation Calibration Form

Date: 10/16/24

Field Conditions: 68°/48°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0824	**Time Finish**	0840		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.44	17.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4525.6	17.22	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	17.23	± 0.1	GWMP
pH (SU)	7.00	7.02	17.36	± 0.1	GWMP
pH (SU)	10.00	10.08	17.36	± 0.1	GWMP
ORP (mV)	228.0	241.6	16.31	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	9.96		

Calibration Check					
Time Start	1122	**Time Finish**	1131		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4542.7	18.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	18.11	± 0.1	GWMP
pH (SU)	7.00	7.07	17.65	± 0.1	GWMP
pH (SU)	10.00	10.05	17.79	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	10.01		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/29/24

Calibrated By: 78°/61°

Field Conditions: 78°/61°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0745	**Time Finish**	0807		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.42	17.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4521.8	17.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	17.33	± 0.1	GWMP
pH (SU)	7.00	7.08	17.16	± 0.1	GWMP
pH (SU)	10.00	10.14	17.09	± 0.1	GWMP
ORP (mV)	228.0	227.8	17.19	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	9.77		

Calibration Check					
Time Start	1656	**Time Finish**	1708		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4407.8	23.78	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	23.76	± 0.1	GWMP
pH (SU)	7.00	7.10	24.26	± 0.1	GWMP
pH (SU)	10.00	10.05	24.58	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	9.33		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/29/24

Calibrated By: Natalie Piparo

Field Conditions: L60 1178

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:40	**Time Finish**	08:01		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.71	16.93	± 10%	NA
Specific Conductance (µS/cm)	4,490	4462.5	17.46	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	17.54	± 0.1	GWMP
pH (SU)	7.00	7.11	17.80	± 0.1	GWMP
pH (SU)	10.00	10.22	17.89	± 0.1	GWMP
ORP (mV)	228.0	224.8	17.44	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.17		
	10.00	10.97		

Calibration Check					
Time Start	1654	**Time Finish**	1703		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4394.0	21.93	± 10% of standard	EPA 2023
pH (SU)	4.00	4.20	21.63	± 0.1	GWMP
pH (SU)	7.00	7.27	21.87	± 0.1	GWMP
pH (SU)	10.00	10.13	22.66	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	-0.02	± 10% of standard	EPA 2023
	1.00	1.14		
	10.00	9.99		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/12/24

Calibrated By: Jay Stewart

Field Conditions: 78°/58°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTrod 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0812	**Time Finish**	0830		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.19	20.29	± 10%	NA
Specific Conductance (µS/cm)	4,490	4398.8	20.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	20.09	± 0.1	GWMP
pH (SU)	7.00	7.09	20.19	± 0.1	GWMP
pH (SU)	10.00	10.10	20.37	± 0.1	GWMP
ORP (mV)	228.0	220.5	20.36	± 10	EPA 2020

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.06		
	10.00	9.80		

Calibration Check					
Time Start	1637	**Time Finish**	1646		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4468.9	24.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	24.84	± 0.1	GWMP
pH (SU)	7.00	7.17	24.73	± 0.1	GWMP
pH (SU)	10.00	10.13	25.02	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.89		

Notes

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/12/24

Calibrated By: William Leaker

Field Conditions: 78°/61° sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration

Time Start	8:14	Time Finish	8:25		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	94.98	19.90	± 10%	NA
Specific Conductance (µS/cm)	4,490	4654.5	19.84	± 10% of standard	EPA 2023
pH (SU)	4.00	3.89	19.89	± 0.1	GWMP
pH (SU)	7.00	6.83	20.03	± 0.1	GWMP
pH (SU)	10.00	9.98	20.29	± 0.1	GWMP
ORP (mV)	228.0	220.2	20.42	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	9.99		

Calibration Check

Time Start	16:34	Time Finish	16:41		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4408.9	25.21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	25.13	± 0.1	GWMP
pH (SU)	7.00	7.16	25.16	± 0.1	GWMP
pH (SU)	10.00	10.13	25.54	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.07		
	10.00	9.82		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/13/24

Calibrated By: Joy Siewert

Field Conditions: 79°/61°

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	05/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0814	Time Finish	0826		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.37	18.70	± 10%	NA
Specific Conductance (µS/cm)	4,490	4530.9	18.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	18.95	± 0.1	GWMP
pH (SU)	7.00	7.01	19.30	± 0.1	GWMP
pH (SU)	10.00	10.03	19.60	± 0.1	GWMP
ORP (mV)	228.0	227.9	19.63	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	9.68		

Calibration Check					
Time Start	1103	Time Finish	1112		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4482.8	22.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	22.14	± 0.1	GWMP
pH (SU)	7.00	7.14	22.71	± 0.1	GWMP
pH (SU)	10.00	10.21	23.01	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.71		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/13/24

Calibrated By: William Lawler

Field Conditions: 79°/61° partly cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:14	**Time Finish**	8:24		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	106.23	18.38	± 10%	NA
Specific Conductance (µS/cm)	4,490	4428.1	18.69	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	18.80	± 0.1	GWMP
pH (SU)	7.00	7.00	19.34	± 0.1	GWMP
pH (SU)	10.00	9.96	19.53	± 0.1	GWMP
ORP (mV)	228.0	230.9	19.52	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.75		

Calibration Check					
Time Start	11:03	**Time Finish**	11:12		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4494.8	20.77	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	20.73	± 0.1	GWMP
pH (SU)	7.00	7.18	20.84	± 0.1	GWMP
pH (SU)	10.00	10.23	21.22	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.93		

Notes:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 11:06:19 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.58 ft** **Total Depth: 30.58 ft** **Initial Depth to Water: 5.93 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.08 ft** **Estimated Total Volume Pumped: 8400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 11:06 AM	00:00	7.09 pH	26.82 °C	13,560 µS/cm	0.09 mg/L	2.75 NTU	-325.1 mV	5.97 ft	8.74 PSU	240.00 ml/min
8/28/2024 11:11 AM	05:00	6.69 pH	25.33 °C	13,773 µS/cm	0.07 mg/L	0.93 NTU	-338.4 mV	5.98 ft	8.91 PSU	240.00 ml/min
8/28/2024 11:16 AM	10:00	6.73 pH	25.20 °C	13,563 µS/cm	0.06 mg/L	0.84 NTU	-345.6 mV	5.98 ft	8.76 PSU	240.00 ml/min
8/28/2024 11:21 AM	15:00	6.76 pH	25.07 °C	13,341 µS/cm	0.06 mg/L	0.54 NTU	-350.2 mV	5.98 ft	8.61 PSU	240.00 ml/min
8/28/2024 11:26 AM	20:00	6.84 pH	25.05 °C	13,022 µS/cm	0.05 mg/L	0.55 NTU	-352.1 mV	5.99 ft	8.38 PSU	240.00 ml/min
8/28/2024 11:31 AM	25:00	6.84 pH	24.90 °C	12,894 µS/cm	0.05 mg/L	0.45 NTU	-355.2 mV	5.99 ft	8.30 PSU	240.00 ml/min
8/28/2024 11:36 AM	30:00	6.85 pH	24.96 °C	12,905 µS/cm	0.05 mg/L	0.47 NTU	-356.6 mV	6.00 ft	8.30 PSU	240.00 ml/min
8/28/2024 11:41 AM	35:00	6.86 pH	25.12 °C	12,782 µS/cm	0.04 mg/L	0.50 NTU	-355.9 mV	6.01 ft	8.22 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Low-Flow Test Report:

Test Date / Time: 8/27/2024 4:02:24 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.02 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 4:02 PM	00:00	7.71 pH	25.92 °C	9,638.5 µS/cm	0.04 mg/L	12.40 NTU	-355.1 mV	3.91 ft	6.05 PSU	260.00 ml/min
8/27/2024 4:07 PM	05:00	7.25 pH	25.38 °C	9,512.1 µS/cm	0.04 mg/L	9.21 NTU	-358.7 mV	3.88 ft	5.97 PSU	260.00 ml/min
8/27/2024 4:12 PM	10:00	7.28 pH	25.55 °C	9,315.4 µS/cm	0.02 mg/L	7.69 NTU	-365.1 mV	3.86 ft	5.84 PSU	260.00 ml/min
8/27/2024 4:17 PM	15:00	7.29 pH	25.52 °C	9,236.9 µS/cm	0.03 mg/L	7.86 NTU	-367.7 mV	3.83 ft	5.78 PSU	260.00 ml/min
8/27/2024 4:22 PM	20:00	7.31 pH	25.46 °C	9,166.0 µS/cm	0.03 mg/L	3.43 NTU	-368.7 mV	3.81 ft	5.74 PSU	260.00 ml/min
8/27/2024 4:27 PM	25:00	7.33 pH	25.32 °C	9,125.2 µS/cm	0.03 mg/L	3.19 NTU	-369.5 mV	3.79 ft	5.71 PSU	260.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 9:52:05 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters. Hanging turbidity with black suspended precipitant.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 9:52 AM	00:00	6.22 pH	26.79 °C	6,854.6 µS/cm	0.07 mg/L	16.40 NTU	-142.9 mV	6.01 ft	4.19 PSU	200.00 ml/min
8/27/2024 9:57 AM	05:00	6.24 pH	26.66 °C	6,855.0 µS/cm	0.05 mg/L	15.20 NTU	-148.7 mV	6.01 ft	4.19 PSU	200.00 ml/min
8/27/2024 10:02 AM	10:00	6.26 pH	26.43 °C	6,884.7 µS/cm	0.05 mg/L	12.60 NTU	-143.2 mV	6.01 ft	4.21 PSU	200.00 ml/min
8/27/2024 10:07 AM	15:00	6.27 pH	26.27 °C	6,868.5 µS/cm	0.04 mg/L	18.20 NTU	-144.4 mV	6.01 ft	4.20 PSU	200.00 ml/min
8/27/2024 10:12 AM	20:00	6.29 pH	26.91 °C	6,918.9 µS/cm	0.04 mg/L	11.72 NTU	-145.9 mV	6.01 ft	4.23 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation
FD-01	Metals, Diss. Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 11:46:18 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: INW-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.76 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 3600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters. Orange purge water.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 11:46 AM	00:00	5.82 pH	29.56 °C	10,026 µS/cm	0.19 mg/L	24.20 NTU	-59.6 mV	5.76 ft	6.28 PSU	180.00 ml/min
8/27/2024 11:51 AM	05:00	5.83 pH	28.41 °C	9,992.2 µS/cm	0.13 mg/L	23.40 NTU	-65.8 mV	6.19 ft	6.26 PSU	180.00 ml/min
8/27/2024 11:56 AM	10:00	5.85 pH	27.83 °C	10,026 µS/cm	0.07 mg/L	24.60 NTU	-72.2 mV	6.25 ft	6.29 PSU	180.00 ml/min
8/27/2024 12:01 PM	15:00	5.85 pH	27.75 °C	10,088 µS/cm	0.06 mg/L	23.50 NTU	-75.0 mV	6.30 ft	6.34 PSU	180.00 ml/min
8/27/2024 12:06 PM	20:00	5.85 pH	28.17 °C	10,066 µS/cm	0.05 mg/L	22.30 NTU	-77.3 mV	6.30 ft	6.32 PSU	180.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 3:06:34 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.93 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 3:06 PM	00:00	7.07 pH	25.20 °C	10,693 µS/cm	0.03 mg/L	1.44 NTU	-356.4 mV	7.95 ft	6.77 PSU	260.00 ml/min
8/28/2024 3:11 PM	05:00	7.08 pH	24.85 °C	10,555 µS/cm	0.02 mg/L	0.84 NTU	-370.5 mV	7.84 ft	6.68 PSU	260.00 ml/min
8/28/2024 3:16 PM	10:00	7.10 pH	24.75 °C	10,431 µS/cm	0.02 mg/L	0.71 NTU	-374.6 mV	7.82 ft	6.60 PSU	260.00 ml/min
8/28/2024 3:21 PM	15:00	7.12 pH	24.67 °C	10,296 µS/cm	0.01 mg/L	0.81 NTU	-375.3 mV	7.78 ft	6.51 PSU	260.00 ml/min
8/28/2024 3:26 PM	20:00	7.12 pH	24.69 °C	10,187 µS/cm	0.01 mg/L	0.96 NTU	-373.7 mV	7.74 ft	6.43 PSU	260.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 1:46:26 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.98 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 1:46 PM	00:00	6.76 pH	26.78 °C	14,758 µS/cm	0.09 mg/L	2.11 NTU	-324.1 mV	6.02 ft	9.58 PSU	240.00 ml/min
8/28/2024 1:51 PM	05:00	6.71 pH	26.79 °C	14,689 µS/cm	0.08 mg/L	1.07 NTU	-334.0 mV	5.99 ft	9.53 PSU	240.00 ml/min
8/28/2024 1:56 PM	10:00	6.72 pH	26.51 °C	14,457 µS/cm	0.07 mg/L	1.30 NTU	-337.1 mV	5.97 ft	9.37 PSU	240.00 ml/min
8/28/2024 2:01 PM	15:00	6.74 pH	26.33 °C	14,183 µS/cm	0.06 mg/L	1.68 NTU	-339.2 mV	5.97 ft	9.18 PSU	240.00 ml/min
8/28/2024 2:06 PM	20:00	6.74 pH	26.19 °C	14,103 µS/cm	0.05 mg/L	1.10 NTU	-339.6 mV	5.98 ft	9.13 PSU	240.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 9:38:37 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.7 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 7800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 9:38 AM	00:00	6.71 pH	24.91 °C	13,021 µS/cm	0.07 mg/L	0.35 NTU	-247.8 mV	5.91 ft	8.39 PSU	260.00 ml/min
8/28/2024 9:43 AM	05:00	6.65 pH	24.78 °C	12,938 µS/cm	0.05 mg/L	0.28 NTU	-271.8 mV	5.93 ft	8.33 PSU	260.00 ml/min
8/28/2024 9:48 AM	10:00	6.53 pH	24.72 °C	12,839 µS/cm	0.06 mg/L	0.36 NTU	-312.2 mV	5.95 ft	8.26 PSU	260.00 ml/min
8/28/2024 9:53 AM	15:00	6.53 pH	24.62 °C	12,674 µS/cm	0.05 mg/L	0.26 NTU	-332.8 mV	5.97 ft	8.15 PSU	260.00 ml/min
8/28/2024 9:58 AM	20:00	6.55 pH	24.65 °C	12,499 µS/cm	0.04 mg/L	0.91 NTU	-348.8 mV	5.99 ft	8.02 PSU	260.00 ml/min
8/28/2024 10:03 AM	25:00	6.53 pH	24.66 °C	12,593 µS/cm	0.04 mg/L	1.13 NTU	-357.4 mV	6.00 ft	8.09 PSU	260.00 ml/min
8/28/2024 10:08 AM	30:00	6.53 pH	24.63 °C	12,687 µS/cm	0.03 mg/L	0.37 NTU	-366.4 mV	6.01 ft	8.16 PSU	260.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Low-Flow Test Report:

Test Date / Time: 8/27/2024 2:36:41 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 4.68 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 2:36 PM	00:00	6.65 pH	26.45 °C	13,451 µS/cm	0.04 mg/L	8.86 NTU	-237.5 mV	4.68 ft	8.67 PSU	240.00 ml/min
8/27/2024 2:41 PM	05:00	6.53 pH	26.33 °C	13,151 µS/cm	0.03 mg/L	9.73 NTU	-248.9 mV	4.56 ft	8.46 PSU	240.00 ml/min
8/27/2024 2:46 PM	10:00	6.47 pH	26.33 °C	12,793 µS/cm	0.03 mg/L	7.22 NTU	-259.2 mV	4.50 ft	8.21 PSU	240.00 ml/min
8/27/2024 2:51 PM	15:00	6.43 pH	26.46 °C	12,558 µS/cm	0.02 mg/L	5.08 NTU	-269.5 mV	4.45 ft	8.04 PSU	240.00 ml/min
8/27/2024 2:56 PM	20:00	6.41 pH	26.41 °C	12,245 µS/cm	0.01 mg/L	4.70 NTU	-287.5 mV	4.41 ft	7.83 PSU	240.00 ml/min
8/27/2024 3:01 PM	25:00	6.40 pH	26.36 °C	12,147 µS/cm	0.00 mg/L	3.95 NTU	-317.1 mV	4.38 ft	7.76 PSU	240.00 ml/min
8/27/2024 3:06 PM	30:00	6.39 pH	26.51 °C	12,049 µS/cm	0.00 mg/L	4.36 NTU	-347.4 mV	4.32 ft	7.69 PSU	240.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:04:36 AM
Project: Plant McManus Week 2 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 4.14 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 11:04 AM	00:00	6.78 pH	24.61 °C	12,496 µS/cm	0.31 mg/L	0.43 NTU	-317.3 mV	3.87 ft	7.26 PSU	200.00 ml/min
9/5/2024 11:09 AM	05:00	6.74 pH	24.71 °C	12,386 µS/cm	0.11 mg/L	0.90 NTU	-327.4 mV	3.83 ft	7.20 PSU	200.00 ml/min
9/5/2024 11:14 AM	10:00	6.77 pH	24.62 °C	12,276 µS/cm	0.10 mg/L	0.22 NTU	-331.5 mV	3.81 ft	7.13 PSU	200.00 ml/min
9/5/2024 11:19 AM	15:00	6.78 pH	24.67 °C	12,186 µS/cm	0.10 mg/L	0.33 NTU	-331.8 mV	3.71 ft	7.07 PSU	200.00 ml/min
9/5/2024 11:24 AM	20:00	6.79 pH	24.72 °C	12,140 µS/cm	0.10 mg/L	0.21 NTU	-330.9 mV	3.76 ft	7.04 PSU	200.00 ml/min
9/5/2024 11:29 AM	25:00	6.80 pH	24.69 °C	12,027 µS/cm	0.08 mg/L	0.15 NTU	-332.6 mV	3.73 ft	6.97 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 3:18:45 PM
Project: Plant McManus Week 2 Performance
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.59 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 3:18 PM	00:00	7.46 pH	25.94 °C	9,617.9 µS/cm	0.50 mg/L	10.23 NTU	-306.5 mV	4.70 ft	5.48 PSU	240.00 ml/min
9/5/2024 3:23 PM	05:00	7.41 pH	25.08 °C	9,508.0 µS/cm	0.06 mg/L	8.02 NTU	-346.5 mV	4.73 ft	5.41 PSU	240.00 ml/min
9/5/2024 3:28 PM	10:00	7.28 pH	24.92 °C	9,538.1 µS/cm	0.06 mg/L	3.56 NTU	-364.7 mV	4.76 ft	5.43 PSU	240.00 ml/min
9/5/2024 3:33 PM	15:00	7.29 pH	24.78 °C	9,501.4 µS/cm	0.06 mg/L	3.28 NTU	-364.5 mV	4.79 ft	5.41 PSU	240.00 ml/min
9/5/2024 3:38 PM	20:00	7.30 pH	24.78 °C	9,413.5 µS/cm	0.04 mg/L	4.00 NTU	-366.1 mV	4.84 ft	5.35 PSU	240.00 ml/min
9/5/2024 3:43 PM	25:00	7.34 pH	24.78 °C	9,287.5 µS/cm	0.03 mg/L	3.47 NTU	-369.3 mV	4.87 ft	5.28 PSU	240.00 ml/min
9/5/2024 3:48 PM	30:00	7.31 pH	24.68 °C	9,364.8 µS/cm	0.03 mg/L	2.02 NTU	-366.9 mV	4.89 ft	5.32 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:02:15 AM
Project: Plant McManus Week 2 Performance
Operator Name: Kevin Stephenson

Location Name: INW-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 4.08 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 8800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 11:02 AM	00:00	6.10 pH	24.96 °C	3,353.4 µS/cm	0.12 mg/L	7.90 NTU	-69.1 mV	3.97 ft	1.78 PSU	220.00 ml/min
9/5/2024 11:07 AM	05:00	6.27 pH	25.03 °C	1,345.2 µS/cm	0.06 mg/L	8.85 NTU	-85.3 mV	4.08 ft	0.68 PSU	220.00 ml/min
9/5/2024 11:12 AM	10:00	6.07 pH	25.05 °C	10,857 µS/cm	0.05 mg/L	5.75 NTU	-77.6 mV	4.16 ft	6.24 PSU	220.00 ml/min
9/5/2024 11:17 AM	15:00	6.15 pH	25.01 °C	16,378 µS/cm	0.15 mg/L	4.01 NTU	-70.5 mV	4.15 ft	9.74 PSU	220.00 ml/min
9/5/2024 11:22 AM	20:00	6.18 pH	25.02 °C	16,843 µS/cm	0.40 mg/L	2.29 NTU	-66.0 mV	4.14 ft	10.04 PSU	220.00 ml/min
9/5/2024 11:27 AM	25:00	6.22 pH	25.05 °C	16,970 µS/cm	0.78 mg/L	2.09 NTU	-67.9 mV	4.12 ft	10.12 PSU	220.00 ml/min
9/5/2024 11:32 AM	30:00	6.23 pH	25.11 °C	17,042 µS/cm	0.48 mg/L	2.21 NTU	-66.7 mV	4.11 ft	10.17 PSU	220.00 ml/min
9/5/2024 11:37 AM	35:00	6.23 pH	25.18 °C	17,032 µS/cm	0.51 mg/L	1.90 NTU	-66.3 mV	4.11 ft	10.16 PSU	220.00 ml/min
9/5/2024 11:42 AM	40:00	6.24 pH	25.15 °C	17,042 µS/cm	0.47 mg/L	2.18 NTU	-65.2 mV	4.09 ft	10.17 PSU	220.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 3:13:05 PM
Project: Plant McManus 2 Week Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.99 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.63 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3.5L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/5/2024 3:13 PM	00:00	7.25 pH	26.24 °C	8,850.7 µS/cm	2.30 mg/L	0.20 NTU	-317.4 mV	7.34 ft	5.01 PSU	200.00 ml/min
9/5/2024 3:18 PM	05:00	7.19 pH	24.55 °C	9,046.4 µS/cm	0.09 mg/L	0.15 NTU	-340.0 mV	7.46 ft	5.13 PSU	200.00 ml/min
9/5/2024 3:23 PM	10:00	7.19 pH	24.37 °C	9,022.7 µS/cm	0.07 mg/L	0.12 NTU	-354.1 mV	7.49 ft	5.11 PSU	200.00 ml/min
9/5/2024 3:28 PM	15:00	7.19 pH	24.41 °C	8,987.8 µS/cm	0.06 mg/L	0.25 NTU	-337.1 mV	7.53 ft	5.09 PSU	200.00 ml/min
9/5/2024 3:33 PM	20:00	7.20 pH	24.41 °C	8,960.1 µS/cm	0.06 mg/L	0.21 NTU	-352.3 mV	7.59 ft	5.08 PSU	200.00 ml/min
9/5/2024 3:38 PM	25:00	7.19 pH	24.32 °C	8,954.7 µS/cm	0.06 mg/L	0.15 NTU	-335.4 mV	7.62 ft	5.07 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 8:59:41 AM
Project: Plant McManus Week 2 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.92 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: -0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/5/2024 8:59 AM	00:00	6.84 pH	24.42 °C	13,454 µS/cm	0.17 mg/L	1.47 NTU	-266.8 mV	4.86 ft	7.87 PSU	180.00 ml/min
9/5/2024 9:04 AM	05:00	6.74 pH	24.30 °C	13,299 µS/cm	0.12 mg/L	0.88 NTU	-301.6 mV	4.82 ft	7.77 PSU	180.00 ml/min
9/5/2024 9:09 AM	10:00	6.74 pH	24.23 °C	13,063 µS/cm	0.09 mg/L	0.97 NTU	-308.7 mV	4.77 ft	7.62 PSU	180.00 ml/min
9/5/2024 9:14 AM	15:00	6.76 pH	24.18 °C	12,770 µS/cm	0.09 mg/L	0.76 NTU	-312.5 mV	4.71 ft	7.44 PSU	180.00 ml/min
9/5/2024 9:19 AM	20:00	6.77 pH	24.16 °C	12,535 µS/cm	0.08 mg/L	0.94 NTU	-321.3 mV	4.66 ft	7.29 PSU	180.00 ml/min
9/5/2024 9:24 AM	25:00	6.80 pH	24.13 °C	12,220 µS/cm	0.07 mg/L	0.92 NTU	-316.3 mV	4.61 ft	7.09 PSU	180.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 1:46:21 PM
Project: Plant McManus 2 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.83 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/5/2024 1:46 PM	00:00	6.52 pH	25.40 °C	12,031 µS/cm	0.15 mg/L	1.39 NTU	-160.4 mV	3.94 ft	6.98 PSU	210.00 ml/min
9/5/2024 1:51 PM	05:00	6.51 pH	25.27 °C	11,983 µS/cm	0.09 mg/L	0.64 NTU	-171.4 mV	4.09 ft	6.94 PSU	210.00 ml/min
9/5/2024 1:56 PM	10:00	6.50 pH	25.13 °C	11,972 µS/cm	0.08 mg/L	0.88 NTU	-222.8 mV	4.12 ft	6.94 PSU	210.00 ml/min
9/5/2024 2:01 PM	15:00	6.50 pH	24.96 °C	11,920 µS/cm	0.07 mg/L	0.42 NTU	-178.7 mV	4.17 ft	6.90 PSU	210.00 ml/min
9/5/2024 2:06 PM	20:00	6.51 pH	24.68 °C	11,891 µS/cm	0.07 mg/L	0.76 NTU	-238.6 mV	4.22 ft	6.89 PSU	210.00 ml/min
9/5/2024 2:11 PM	25:00	6.53 pH	24.69 °C	11,825 µS/cm	0.05 mg/L	0.36 NTU	-198.5 mV	4.28 ft	6.84 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 1:42:17 PM
Project: Plant McManus Week 2 Performance
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 3.64 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.48 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 1:42 PM	00:00	6.59 pH	25.96 °C	15,161 µS/cm	3.40 mg/L	28.60 NTU	-122.1 mV	3.80 ft	8.96 PSU	200.00 ml/min
9/5/2024 1:47 PM	05:00	6.64 pH	25.75 °C	15,236 µS/cm	0.25 mg/L	19.50 NTU	-129.9 mV	3.86 ft	9.01 PSU	200.00 ml/min
9/5/2024 1:52 PM	10:00	6.61 pH	25.83 °C	15,180 µS/cm	0.45 mg/L	17.00 NTU	-139.4 mV	3.91 ft	8.97 PSU	200.00 ml/min
9/5/2024 1:57 PM	15:00	6.59 pH	25.59 °C	15,036 µS/cm	0.71 mg/L	12.00 NTU	-143.3 mV	3.91 ft	8.88 PSU	200.00 ml/min
9/5/2024 2:02 PM	20:00	6.55 pH	25.52 °C	14,773 µS/cm	0.51 mg/L	9.99 NTU	-132.3 mV	4.01 ft	8.71 PSU	200.00 ml/min
9/5/2024 2:07 PM	25:00	6.59 pH	25.33 °C	14,653 µS/cm	0.15 mg/L	8.75 NTU	-163.8 mV	4.03 ft	8.63 PSU	200.00 ml/min
9/5/2024 2:12 PM	30:00	6.61 pH	25.40 °C	14,356 µS/cm	0.15 mg/L	7.38 NTU	-161.7 mV	4.07 ft	8.44 PSU	200.00 ml/min
9/5/2024 2:17 PM	35:00	6.65 pH	25.53 °C	14,048 µS/cm	0.12 mg/L	4.79 NTU	-193.4 mV	4.12 ft	8.25 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 12:44:08 PM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 5.85 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 6750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.65 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/12/2024 12:44 PM	00:00	6.64 pH	25.51 °C	14,517 µS/cm	0.25 mg/L	2.31 NTU	-217.7 mV	5.42 ft	8.55 PSU	225.00 ml/min
9/12/2024 12:49 PM	05:00	6.67 pH	24.95 °C	14,358 µS/cm	0.09 mg/L	0.76 NTU	-229.3 mV	5.39 ft	8.44 PSU	225.00 ml/min
9/12/2024 12:54 PM	10:00	6.73 pH	24.80 °C	13,988 µS/cm	0.06 mg/L	0.70 NTU	-303.1 mV	5.35 ft	8.21 PSU	225.00 ml/min
9/12/2024 12:59 PM	15:00	6.78 pH	24.66 °C	13,683 µS/cm	0.05 mg/L	0.57 NTU	-310.5 mV	5.32 ft	8.01 PSU	225.00 ml/min
9/12/2024 1:04 PM	20:00	6.79 pH	24.59 °C	13,554 µS/cm	0.05 mg/L	0.84 NTU	-261.8 mV	5.29 ft	7.93 PSU	225.00 ml/min
9/12/2024 1:09 PM	25:00	6.87 pH	24.50 °C	13,171 µS/cm	0.04 mg/L	0.87 NTU	-322.2 mV	5.23 ft	7.69 PSU	225.00 ml/min
9/12/2024 1:14 PM	30:00	6.89 pH	24.41 °C	13,006 µS/cm	0.04 mg/L	0.42 NTU	-279.2 mV	5.20 ft	7.59 PSU	225.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 2:37:00 PM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.45 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 2:37 PM	00:00	7.83 pH	24.34 °C	9,145.2 µS/cm	0.11 mg/L	2.82 NTU	-360.1 mV	4.31 ft	5.19 PSU	200.00 ml/min
9/12/2024 2:42 PM	05:00	7.39 pH	24.67 °C	9,058.7 µS/cm	0.07 mg/L	2.37 NTU	-361.9 mV	4.30 ft	5.14 PSU	200.00 ml/min
9/12/2024 2:47 PM	10:00	7.39 pH	24.64 °C	9,082.1 µS/cm	0.04 mg/L	2.28 NTU	-366.9 mV	4.25 ft	5.15 PSU	200.00 ml/min
9/12/2024 2:52 PM	15:00	7.39 pH	24.67 °C	9,037.6 µS/cm	0.03 mg/L	2.82 NTU	-366.5 mV	4.22 ft	5.12 PSU	200.00 ml/min
9/12/2024 2:57 PM	20:00	7.38 pH	24.70 °C	9,054.2 µS/cm	0.02 mg/L	2.47 NTU	-368.9 mV	4.18 ft	5.13 PSU	200.00 ml/min
9/12/2024 3:02 PM	25:00	7.38 pH	24.67 °C	9,080.6 µS/cm	0.02 mg/L	2.35 NTU	-369.6 mV	4.12 ft	5.15 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:55:25 AM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.72 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 9950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 9:55 AM	00:00	6.62 pH	24.94 °C	7,226.8 µS/cm	0.13 mg/L	15.90 NTU	-143.4 mV	5.83 ft	4.03 PSU	230.00 ml/min
9/12/2024 10:00 AM	05:00	6.65 pH	25.08 °C	7,247.9 µS/cm	0.08 mg/L	13.20 NTU	-153.3 mV	5.84 ft	4.04 PSU	230.00 ml/min
9/12/2024 10:05 AM	10:00	6.67 pH	25.14 °C	7,249.7 µS/cm	0.06 mg/L	11.20 NTU	-154.8 mV	5.85 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:10 AM	15:00	6.68 pH	25.10 °C	7,251.5 µS/cm	0.05 mg/L	12.20 NTU	-156.4 mV	5.86 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:15 AM	20:00	6.70 pH	25.06 °C	7,260.8 µS/cm	0.04 mg/L	12.50 NTU	-157.4 mV	5.87 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:20 AM	25:00	6.71 pH	25.11 °C	7,242.8 µS/cm	0.03 mg/L	14.90 NTU	-159.1 mV	5.88 ft	4.04 PSU	230.00 ml/min
9/12/2024 10:25 AM	30:00	6.72 pH	25.15 °C	7,247.6 µS/cm	0.02 mg/L	11.75 NTU	-160.8 mV	5.89 ft	4.04 PSU	210.00 ml/min
9/12/2024 10:30 AM	35:00	6.72 pH	25.17 °C	7,261.8 µS/cm	0.02 mg/L	10.54 NTU	-161.0 mV	5.90 ft	4.05 PSU	200.00 ml/min
9/12/2024 10:35 AM	40:00	6.73 pH	25.25 °C	7,240.1 µS/cm	0.02 mg/L	8.94 NTU	-162.0 mV	5.90 ft	4.04 PSU	200.00 ml/min
9/12/2024 10:40 AM	45:00	6.73 pH	25.09 °C	7,259.5 µS/cm	0.02 mg/L	7.83 NTU	-163.2 mV	5.90 ft	4.05 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 11:40:13 AM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.59 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 3700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 185 ml/min** **Final Draw Down: 0.42 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L. Orange purge water.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 11:40 AM	00:00	6.31 pH	25.37 °C	17,442 µS/cm	0.21 mg/L	79.10 NTU	-81.9 mV	5.91 ft	10.43 PSU	185.00 ml/min
9/12/2024 11:45 AM	05:00	6.33 pH	25.76 °C	17,326 µS/cm	0.14 mg/L	74.20 NTU	-83.4 mV	5.98 ft	10.36 PSU	185.00 ml/min
9/12/2024 11:50 AM	10:00	6.34 pH	25.76 °C	17,320 µS/cm	0.10 mg/L	72.20 NTU	-86.5 mV	6.01 ft	10.35 PSU	185.00 ml/min
9/12/2024 11:55 AM	15:00	6.35 pH	25.78 °C	17,306 µS/cm	0.07 mg/L	67.30 NTU	-87.4 mV	6.01 ft	10.34 PSU	185.00 ml/min
9/12/2024 12:00 PM	20:00	6.36 pH	25.85 °C	17,284 µS/cm	0.06 mg/L	63.40 NTU	-88.3 mV	6.01 ft	10.33 PSU	185.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:42:25 AM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.14 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 9:42 AM	00:00	7.03 pH	24.20 °C	10,234 µS/cm	0.05 mg/L	0.38 NTU	-225.3 mV	8.31 ft	5.86 PSU	230.00 ml/min
9/12/2024 9:47 AM	05:00	7.14 pH	23.99 °C	10,410 µS/cm	0.03 mg/L	0.39 NTU	-320.6 mV	8.33 ft	5.96 PSU	230.00 ml/min
9/12/2024 9:52 AM	10:00	7.16 pH	23.92 °C	10,349 µS/cm	0.02 mg/L	0.32 NTU	-324.8 mV	8.33 ft	5.93 PSU	230.00 ml/min
9/12/2024 9:57 AM	15:00	7.18 pH	23.90 °C	10,253 µS/cm	0.02 mg/L	0.37 NTU	-327.0 mV	8.34 ft	5.87 PSU	230.00 ml/min
9/12/2024 10:02 AM	20:00	7.19 pH	23.87 °C	10,158 µS/cm	0.01 mg/L	0.45 NTU	-252.6 mV	8.35 ft	5.81 PSU	230.00 ml/min
9/12/2024 10:07 AM	25:00	7.20 pH	23.85 °C	10,135 µS/cm	0.01 mg/L	0.27 NTU	-254.5 mV	8.35 ft	5.80 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 11:25:18 AM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.89 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 6L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 11:25 AM	00:00	6.81 pH	25.87 °C	13,254 µS/cm	0.62 mg/L	1.50 NTU	-206.8 mV	5.85 ft	7.74 PSU	225.00 ml/min
9/12/2024 11:30 AM	05:00	6.82 pH	24.41 °C	13,492 µS/cm	0.07 mg/L	1.47 NTU	-285.3 mV	5.83 ft	7.89 PSU	225.00 ml/min
9/12/2024 11:35 AM	10:00	6.84 pH	24.27 °C	13,183 µS/cm	0.06 mg/L	1.16 NTU	-212.3 mV	5.82 ft	7.70 PSU	225.00 ml/min
9/12/2024 11:40 AM	15:00	6.87 pH	24.23 °C	12,963 µS/cm	0.05 mg/L	0.94 NTU	-289.2 mV	5.81 ft	7.56 PSU	225.00 ml/min
9/12/2024 11:45 AM	20:00	6.88 pH	24.20 °C	12,836 µS/cm	0.04 mg/L	0.65 NTU	-290.6 mV	5.80 ft	7.48 PSU	225.00 ml/min
9/12/2024 11:50 AM	25:00	6.87 pH	24.18 °C	12,904 µS/cm	0.04 mg/L	1.01 NTU	-291.3 mV	5.79 ft	7.52 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 1:56:18 PM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.96 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 8100 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 270 ml/min** **Final Draw Down: -0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 1:56 PM	00:00	6.78 pH	25.73 °C	12,497 µS/cm	1.20 mg/L	1.70 NTU	-284.3 mV	4.96 ft	7.27 PSU	270.00 ml/min
9/12/2024 2:01 PM	05:00	6.67 pH	24.43 °C	12,483 µS/cm	0.05 mg/L	0.67 NTU	-357.2 mV	4.90 ft	7.26 PSU	270.00 ml/min
9/12/2024 2:06 PM	10:00	6.71 pH	24.30 °C	12,200 µS/cm	0.04 mg/L	0.53 NTU	-368.1 mV	4.87 ft	7.08 PSU	270.00 ml/min
9/12/2024 2:11 PM	15:00	6.78 pH	24.23 °C	11,821 µS/cm	0.03 mg/L	0.35 NTU	-404.1 mV	4.84 ft	6.84 PSU	270.00 ml/min
9/12/2024 2:16 PM	20:00	6.79 pH	24.19 °C	11,795 µS/cm	0.03 mg/L	0.30 NTU	-394.6 mV	4.79 ft	6.82 PSU	270.00 ml/min
9/12/2024 2:21 PM	25:00	6.82 pH	24.15 °C	11,530 µS/cm	0.02 mg/L	0.51 NTU	-400.7 mV	4.75 ft	6.66 PSU	270.00 ml/min
9/12/2024 2:26 PM	30:00	6.82 pH	24.14 °C	11,635 µS/cm	0.02 mg/L	0.29 NTU	-401.5 mV	4.71 ft	6.72 PSU	270.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 1:09:04 PM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 5.24 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 6450 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 215 ml/min** **Final Draw Down: -0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 1:09 PM	00:00	6.98 pH	25.12 °C	9,935.5 µS/cm	0.03 mg/L	6.45 NTU	-288.2 mV	5.09 ft	5.67 PSU	215.00 ml/min
9/12/2024 1:14 PM	05:00	6.91 pH	25.53 °C	9,621.9 µS/cm	0.01 mg/L	6.20 NTU	-306.3 mV	5.05 ft	5.48 PSU	215.00 ml/min
9/12/2024 1:19 PM	10:00	6.86 pH	25.42 °C	9,507.7 µS/cm	0.00 mg/L	6.43 NTU	-317.2 mV	5.05 ft	5.41 PSU	215.00 ml/min
9/12/2024 1:24 PM	15:00	6.83 pH	25.40 °C	9,345.8 µS/cm	-0.01 mg/L	6.53 NTU	-329.3 mV	4.97 ft	5.31 PSU	215.00 ml/min
9/12/2024 1:29 PM	20:00	6.80 pH	25.39 °C	9,358.0 µS/cm	-0.01 mg/L	6.19 NTU	-339.6 mV	4.92 ft	5.32 PSU	215.00 ml/min
9/12/2024 1:34 PM	25:00	6.79 pH	25.27 °C	9,320.1 µS/cm	-0.01 mg/L	6.30 NTU	-347.2 mV	4.88 ft	5.30 PSU	215.00 ml/min
9/12/2024 1:39 PM	30:00	6.78 pH	25.21 °C	9,325.4 µS/cm	-0.02 mg/L	6.25 NTU	-352.7 mV	4.80 ft	5.30 PSU	215.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:37:25 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 3.19 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/18/2024 10:37 AM	00:00	6.95 pH	25.93 °C	14,005 µS/cm	0.29 mg/L	1.63 NTU	-315.3 mV	3.22 ft	8.22 PSU	240.00 ml/min
9/18/2024 10:42 AM	05:00	6.76 pH	24.76 °C	14,040 µS/cm	0.08 mg/L	0.84 NTU	-328.4 mV	3.18 ft	8.24 PSU	240.00 ml/min
9/18/2024 10:47 AM	10:00	6.77 pH	24.73 °C	13,937 µS/cm	0.04 mg/L	0.34 NTU	-342.9 mV	3.19 ft	8.17 PSU	240.00 ml/min
9/18/2024 10:52 AM	15:00	6.79 pH	24.66 °C	13,835 µS/cm	0.03 mg/L	0.36 NTU	-334.8 mV	3.18 ft	8.11 PSU	240.00 ml/min
9/18/2024 10:57 AM	20:00	6.78 pH	24.85 °C	13,847 µS/cm	0.02 mg/L	0.33 NTU	-332.4 mV	3.18 ft	8.12 PSU	240.00 ml/min
9/18/2024 11:02 AM	25:00	6.79 pH	24.82 °C	13,810 µS/cm	0.02 mg/L	0.37 NTU	-339.1 mV	3.19 ft	8.09 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 9:28:46 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 3.55 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/18/2024 9:28 AM	00:00	7.32 pH	24.69 °C	9,772.1 µS/cm	0.18 mg/L	8.45 NTU	-326.0 mV	3.43 ft	5.57 PSU	240.00 ml/min
9/18/2024 9:33 AM	05:00	7.28 pH	24.39 °C	9,672.7 µS/cm	0.08 mg/L	5.65 NTU	-345.7 mV	3.37 ft	5.51 PSU	240.00 ml/min
9/18/2024 9:38 AM	10:00	7.28 pH	24.39 °C	9,708.7 µS/cm	0.06 mg/L	5.60 NTU	-347.3 mV	3.34 ft	5.53 PSU	240.00 ml/min
9/18/2024 9:43 AM	15:00	7.30 pH	24.32 °C	9,646.8 µS/cm	0.05 mg/L	4.54 NTU	-348.6 mV	3.31 ft	5.50 PSU	240.00 ml/min
9/18/2024 9:48 AM	20:00	7.31 pH	24.23 °C	9,627.4 µS/cm	0.04 mg/L	3.88 NTU	-357.6 mV	3.26 ft	5.48 PSU	240.00 ml/min
9/18/2024 9:53 AM	25:00	7.33 pH	24.19 °C	9,559.5 µS/cm	0.03 mg/L	3.55 NTU	-350.0 mV	3.24 ft	5.44 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2024 9:29:58 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 3.5 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/17/2024 9:29 AM	00:00	6.51 pH	23.79 °C	7,078.5 µS/cm	0.06 mg/L	13.30 NTU	-156.1 mV	3.46 ft	3.94 PSU	225.00 ml/min
9/17/2024 9:34 AM	05:00	6.66 pH	23.78 °C	7,046.4 µS/cm	0.04 mg/L	10.04 NTU	-168.4 mV	3.43 ft	3.92 PSU	225.00 ml/min
9/17/2024 9:39 AM	10:00	6.71 pH	23.83 °C	7,048.6 µS/cm	0.02 mg/L	7.58 NTU	-156.6 mV	3.43 ft	3.92 PSU	225.00 ml/min
9/17/2024 9:44 AM	15:00	6.74 pH	23.88 °C	7,072.9 µS/cm	0.01 mg/L	8.73 NTU	-171.0 mV	3.41 ft	3.94 PSU	225.00 ml/min
9/17/2024 9:49 AM	20:00	6.76 pH	23.95 °C	7,080.6 µS/cm	0.01 mg/L	5.32 NTU	-161.7 mV	3.41 ft	3.94 PSU	225.00 ml/min
9/17/2024 9:54 AM	25:00	6.78 pH	23.99 °C	7,087.9 µS/cm	0.00 mg/L	5.16 NTU	-176.6 mV	3.41 ft	3.95 PSU	225.00 ml/min
9/17/2024 9:59 AM	30:00	6.78 pH	24.04 °C	7,098.3 µS/cm	0.00 mg/L	4.84 NTU	-167.1 mV	3.42 ft	3.95 PSU	225.00 ml/min
9/17/2024 10:04 AM	35:00	6.80 pH	24.05 °C	7,103.2 µS/cm	0.00 mg/L	4.20 NTU	-183.5 mV	3.42 ft	3.96 PSU	225.00 ml/min
9/17/2024 10:09 AM	40:00	6.81 pH	24.13 °C	7,107.6 µS/cm	0.00 mg/L	4.66 NTU	-174.9 mV	3.42 ft	3.96 PSU	225.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 9/17/2024 11:45:23 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 3.72 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.99 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/17/2024 11:45 AM	00:00	6.15 pH	33.96 °C	15,341 µS/cm	1.68 mg/L	39.80 NTU	-77.2 mV	4.51 ft	9.07 PSU	210.00 ml/min
9/17/2024 11:50 AM	05:00	6.41 pH	27.83 °C	16,861 µS/cm	0.05 mg/L	40.10 NTU	-93.6 mV	4.56 ft	10.06 PSU	210.00 ml/min
9/17/2024 11:55 AM	10:00	6.45 pH	27.83 °C	16,885 µS/cm	0.04 mg/L	41.10 NTU	-100.5 mV	4.60 ft	10.07 PSU	210.00 ml/min
9/17/2024 12:00 PM	15:00	6.46 pH	27.70 °C	16,904 µS/cm	0.03 mg/L	52.70 NTU	-94.7 mV	4.66 ft	10.09 PSU	180.00 ml/min
9/17/2024 12:05 PM	20:00	6.46 pH	28.02 °C	16,926 µS/cm	0.03 mg/L	42.00 NTU	-99.8 mV	4.60 ft	10.10 PSU	180.00 ml/min
9/17/2024 12:10 PM	25:00	6.46 pH	28.03 °C	16,923 µS/cm	0.02 mg/L	40.50 NTU	-93.9 mV	4.71 ft	10.10 PSU	180.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 9/17/2024 11:21:00 AM
Project: Plant McManus Week 4 Performance
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.27 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5375 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 215 ml/min** **Final Draw Down: 0.59 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/17/2024 11:21 AM	00:00	7.73 pH	25.50 °C	10,870 µS/cm	0.04 mg/L	0.53 NTU	-365.1 mV	6.59 ft	6.25 PSU	215.00 ml/min
9/17/2024 11:26 AM	05:00	7.18 pH	25.81 °C	10,737 µS/cm	0.01 mg/L	0.19 NTU	-372.7 mV	6.63 ft	6.17 PSU	215.00 ml/min
9/17/2024 11:31 AM	10:00	7.18 pH	25.72 °C	10,693 µS/cm	0.00 mg/L	0.16 NTU	-375.1 mV	6.68 ft	6.14 PSU	215.00 ml/min
9/17/2024 11:36 AM	15:00	7.19 pH	25.60 °C	10,615 µS/cm	-0.01 mg/L	0.30 NTU	-377.1 mV	6.75 ft	6.09 PSU	215.00 ml/min
9/17/2024 11:41 AM	20:00	7.19 pH	25.47 °C	10,552 µS/cm	-0.01 mg/L	0.24 NTU	-379.0 mV	6.80 ft	6.06 PSU	215.00 ml/min
9/17/2024 11:46 AM	25:00	7.19 pH	25.61 °C	10,489 µS/cm	-0.02 mg/L	0.09 NTU	-376.8 mV	6.86 ft	6.02 PSU	215.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 9/17/2024 9:29:05 AM
Project: Plant McManus Week 4 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.32 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/17/2024 9:29 AM	00:00	6.99 pH	24.08 °C	14,803 µS/cm	0.17 mg/L	1.82 NTU	-325.2 mV	3.37 ft	8.72 PSU	210.00 ml/min
9/17/2024 9:34 AM	05:00	6.74 pH	24.28 °C	14,446 µS/cm	0.10 mg/L	1.00 NTU	-328.8 mV	3.37 ft	8.50 PSU	210.00 ml/min
9/17/2024 9:39 AM	10:00	6.76 pH	24.28 °C	14,212 µS/cm	0.07 mg/L	1.11 NTU	-334.0 mV	3.37 ft	8.35 PSU	210.00 ml/min
9/17/2024 9:44 AM	15:00	6.78 pH	24.18 °C	14,103 µS/cm	0.04 mg/L	1.10 NTU	-336.4 mV	3.35 ft	8.28 PSU	210.00 ml/min
9/17/2024 9:49 AM	20:00	6.80 pH	24.28 °C	13,967 µS/cm	0.03 mg/L	1.21 NTU	-338.3 mV	3.35 ft	8.19 PSU	210.00 ml/min
9/17/2024 9:54 AM	25:00	6.80 pH	24.31 °C	13,974 µS/cm	0.02 mg/L	0.70 NTU	-339.1 mV	3.35 ft	8.20 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 9/17/2024 3:02:38 PM
Project: Plant McManus Week 4 Performance
Operator Name: Jay Siewert

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.69 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/17/2024 3:02 PM	00:00	6.53 pH	26.66 °C	13,440 µS/cm	0.13 mg/L	0.58 NTU	-157.1 mV	5.84 ft	7.86 PSU	250.00 ml/min
9/17/2024 3:07 PM	05:00	6.54 pH	26.63 °C	13,257 µS/cm	0.06 mg/L	0.45 NTU	-180.3 mV	5.85 ft	7.75 PSU	250.00 ml/min
9/17/2024 3:12 PM	10:00	6.57 pH	26.41 °C	13,149 µS/cm	0.03 mg/L	0.65 NTU	-245.4 mV	5.90 ft	7.68 PSU	250.00 ml/min
9/17/2024 3:17 PM	15:00	6.59 pH	26.13 °C	13,000 µS/cm	0.02 mg/L	0.16 NTU	-251.3 mV	5.90 ft	7.58 PSU	250.00 ml/min
9/17/2024 3:22 PM	20:00	6.57 pH	26.21 °C	12,937 µS/cm	0.01 mg/L	0.11 NTU	-294.0 mV	5.92 ft	7.55 PSU	250.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 9/17/2024 2:53:14 PM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.4 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 10500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/17/2024 2:53 PM	00:00	6.77 pH	28.68 °C	13,472 µS/cm	0.11 mg/L	41.90 NTU	-225.9 mV	5.54 ft	7.89 PSU	210.00 ml/min
9/17/2024 2:58 PM	05:00	6.85 pH	26.32 °C	14,262 µS/cm	0.04 mg/L	20.00 NTU	-267.6 mV	5.57 ft	8.39 PSU	210.00 ml/min
9/17/2024 3:03 PM	10:00	6.74 pH	26.12 °C	14,124 µS/cm	0.02 mg/L	14.70 NTU	-290.3 mV	5.59 ft	8.30 PSU	210.00 ml/min
9/17/2024 3:08 PM	15:00	6.66 pH	25.99 °C	13,895 µS/cm	0.02 mg/L	11.90 NTU	-302.1 mV	5.61 ft	8.15 PSU	210.00 ml/min
9/17/2024 3:13 PM	20:00	6.59 pH	25.90 °C	13,678 µS/cm	0.01 mg/L	11.30 NTU	-316.9 mV	5.62 ft	8.01 PSU	210.00 ml/min
9/17/2024 3:18 PM	25:00	6.58 pH	25.86 °C	13,248 µS/cm	0.01 mg/L	8.28 NTU	-315.4 mV	5.65 ft	7.74 PSU	210.00 ml/min
9/17/2024 3:23 PM	30:00	6.58 pH	25.84 °C	13,049 µS/cm	0.01 mg/L	7.13 NTU	-325.2 mV	5.66 ft	7.62 PSU	210.00 ml/min
9/17/2024 3:28 PM	35:00	6.58 pH	26.07 °C	12,881 µS/cm	0.01 mg/L	5.74 NTU	-322.8 mV	5.68 ft	7.51 PSU	210.00 ml/min
9/17/2024 3:33 PM	40:00	6.59 pH	26.07 °C	12,700 µS/cm	0.00 mg/L	4.93 NTU	-326.5 mV	5.70 ft	7.40 PSU	210.00 ml/min
9/17/2024 3:38 PM	45:00	6.59 pH	26.04 °C	12,635 µS/cm	0.00 mg/L	4.01 NTU	-330.5 mV	5.71 ft	7.35 PSU	210.00 ml/min
9/17/2024 3:43 PM	50:00	6.62 pH	25.98 °C	12,430 µS/cm	0.00 mg/L	3.55 NTU	-339.3 mV	5.73 ft	7.23 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/1/2024 4:04:35 PM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.92 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 5357 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/1/2024 4:04 PM	00:00	6.68 pH	25.59 °C	14,254 µS/cm	0.15 mg/L	0.81 NTU	-238.5 mV	5.99 ft	8.38 PSU	220.00 ml/min
10/1/2024 4:09 PM	05:00	6.71 pH	25.62 °C	13,890 µS/cm	0.08 mg/L	0.74 NTU	-247.8 mV	5.99 ft	8.15 PSU	220.00 ml/min
10/1/2024 4:14 PM	10:00	6.74 pH	25.75 °C	13,582 µS/cm	0.05 mg/L	1.00 NTU	-302.7 mV	5.98 ft	7.95 PSU	220.00 ml/min
10/1/2024 4:18 PM	14:21	6.74 pH	25.45 °C	13,727 µS/cm	0.04 mg/L	0.85 NTU	-264.5 mV	5.99 ft	8.04 PSU	220.00 ml/min
10/1/2024 4:23 PM	19:21	6.77 pH	25.40 °C	13,439 µS/cm	0.03 mg/L	0.51 NTU	-273.4 mV	5.99 ft	7.86 PSU	220.00 ml/min
10/1/2024 4:28 PM	24:21	6.78 pH	25.26 °C	13,376 µS/cm	0.03 mg/L	0.43 NTU	-281.2 mV	5.99 ft	7.82 PSU	220.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 4:08:40 PM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 5.82 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/1/2024 4:08 PM	00:00	7.59 pH	25.41 °C	9,992.4 µS/cm	0.08 mg/L	2.49 NTU	-339.2 mV	5.85 ft	5.71 PSU	230.00 ml/min
10/1/2024 4:13 PM	05:00	7.30 pH	25.16 °C	9,853.2 µS/cm	0.06 mg/L	2.52 NTU	-350.8 mV	5.85 ft	5.62 PSU	230.00 ml/min
10/1/2024 4:18 PM	10:00	7.28 pH	24.99 °C	9,860.5 µS/cm	0.05 mg/L	1.53 NTU	-350.1 mV	5.85 ft	5.63 PSU	230.00 ml/min
10/1/2024 4:23 PM	15:00	7.28 pH	24.89 °C	9,859.2 µS/cm	0.04 mg/L	1.38 NTU	-351.0 mV	5.87 ft	5.63 PSU	230.00 ml/min
10/1/2024 4:28 PM	20:00	7.33 pH	24.79 °C	9,647.3 µS/cm	0.04 mg/L	1.13 NTU	-352.3 mV	5.86 ft	5.50 PSU	230.00 ml/min
10/1/2024 4:33 PM	25:00	7.32 pH	24.68 °C	9,651.0 µS/cm	0.04 mg/L	1.10 NTU	-340.3 mV	5.85 ft	5.50 PSU	230.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/1/2024 11:09:21 AM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.21 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 7700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/1/2024 11:09 AM	00:00	6.32 pH	28.58 °C	7,170.5 µS/cm	0.38 mg/L	12.80 NTU	-136.2 mV	4.34 ft	4.00 PSU	220.00 ml/min
10/1/2024 11:14 AM	05:00	6.64 pH	25.64 °C	7,387.9 µS/cm	0.04 mg/L	9.12 NTU	-143.7 mV	4.38 ft	4.13 PSU	220.00 ml/min
10/1/2024 11:19 AM	10:00	6.77 pH	25.37 °C	7,410.0 µS/cm	0.02 mg/L	6.93 NTU	-180.9 mV	4.42 ft	4.14 PSU	220.00 ml/min
10/1/2024 11:24 AM	15:00	6.84 pH	25.36 °C	7,393.6 µS/cm	0.01 mg/L	6.14 NTU	-212.4 mV	4.46 ft	4.13 PSU	220.00 ml/min
10/1/2024 11:29 AM	20:00	6.86 pH	25.31 °C	7,379.1 µS/cm	-0.00 mg/L	5.10 NTU	-236.1 mV	4.51 ft	4.12 PSU	220.00 ml/min
10/1/2024 11:34 AM	25:00	6.87 pH	25.31 °C	7,400.4 µS/cm	-0.01 mg/L	4.63 NTU	-306.2 mV	4.55 ft	4.14 PSU	220.00 ml/min
10/1/2024 11:39 AM	30:00	6.86 pH	25.72 °C	7,395.9 µS/cm	-0.01 mg/L	3.83 NTU	-338.1 mV	4.62 ft	4.13 PSU	220.00 ml/min
10/1/2024 11:44 AM	35:00	6.87 pH	26.03 °C	7,374.2 µS/cm	-0.02 mg/L	3.49 NTU	-373.2 mV	4.66 ft	4.12 PSU	220.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/2/2024 9:47:28 AM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 3.78 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.53 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/2/2024 9:47 AM	00:00	6.44 pH	26.14 °C	17,347 µS/cm	0.11 mg/L	14.70 NTU	-61.1 mV	4.27 ft	10.37 PSU	230.00 ml/min
10/2/2024 9:52 AM	05:00	6.45 pH	26.54 °C	17,231 µS/cm	0.06 mg/L	13.50 NTU	-60.8 mV	4.29 ft	10.30 PSU	230.00 ml/min
10/2/2024 9:57 AM	10:00	6.46 pH	26.36 °C	17,290 µS/cm	0.04 mg/L	11.60 NTU	-69.1 mV	4.30 ft	10.33 PSU	230.00 ml/min
10/2/2024 10:02 AM	15:00	6.46 pH	26.36 °C	17,276 µS/cm	0.03 mg/L	11.30 NTU	-69.8 mV	4.31 ft	10.32 PSU	230.00 ml/min
10/2/2024 10:07 AM	20:00	6.47 pH	26.49 °C	17,256 µS/cm	0.02 mg/L	9.83 NTU	-70.0 mV	4.31 ft	10.31 PSU	230.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/1/2024 10:28:11 AM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.5 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/1/2024 10:28 AM	00:00	7.46 pH	25.30 °C	11,471 µS/cm	0.03 mg/L	0.33 NTU	-339.5 mV	6.69 ft	6.63 PSU	210.00 ml/min
10/1/2024 10:33 AM	05:00	7.00 pH	25.37 °C	11,682 µS/cm	0.02 mg/L	0.53 NTU	-338.7 mV	6.72 ft	6.76 PSU	210.00 ml/min
10/1/2024 10:38 AM	10:00	7.02 pH	25.43 °C	11,566 µS/cm	0.01 mg/L	0.60 NTU	-350.9 mV	6.72 ft	6.68 PSU	210.00 ml/min
10/1/2024 10:43 AM	15:00	7.04 pH	25.51 °C	11,424 µS/cm	0.01 mg/L	0.61 NTU	-351.3 mV	6.72 ft	6.60 PSU	210.00 ml/min
10/1/2024 10:48 AM	20:00	7.05 pH	25.60 °C	11,348 µS/cm	-0.00 mg/L	0.17 NTU	-351.6 mV	6.75 ft	6.55 PSU	210.00 ml/min
10/1/2024 10:53 AM	25:00	7.05 pH	25.58 °C	11,330 µS/cm	-0.00 mg/L	0.06 NTU	-351.5 mV	6.78 ft	6.54 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 12:26:36 PM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.74 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5875 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 235 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/1/2024 12:26 PM	00:00	6.74 pH	25.54 °C	17,852 µS/cm	0.14 mg/L	0.48 NTU	-270.7 mV	5.02 ft	10.70 PSU	235.00 ml/min
10/1/2024 12:31 PM	05:00	6.70 pH	25.93 °C	14,734 µS/cm	0.05 mg/L	0.85 NTU	-271.4 mV	5.06 ft	8.69 PSU	235.00 ml/min
10/1/2024 12:36 PM	10:00	6.72 pH	25.95 °C	14,503 µS/cm	0.03 mg/L	0.83 NTU	-301.5 mV	5.11 ft	8.54 PSU	235.00 ml/min
10/1/2024 12:41 PM	15:00	6.73 pH	25.99 °C	14,314 µS/cm	0.02 mg/L	0.75 NTU	-303.9 mV	5.15 ft	8.42 PSU	235.00 ml/min
10/1/2024 12:46 PM	20:00	6.76 pH	25.87 °C	14,044 µS/cm	0.01 mg/L	0.72 NTU	-305.7 mV	5.19 ft	8.25 PSU	235.00 ml/min
10/1/2024 12:51 PM	25:00	6.79 pH	25.68 °C	13,842 µS/cm	0.01 mg/L	0.66 NTU	-308.0 mV	5.23 ft	8.12 PSU	235.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/2/2024 9:40:29 AM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.96 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/2/2024 9:40 AM	00:00	6.62 pH	24.98 °C	12,886 µS/cm	0.06 mg/L	0.37 NTU	-200.5 mV	3.99 ft	7.51 PSU	225.00 ml/min
10/2/2024 9:45 AM	05:00	6.59 pH	24.95 °C	12,706 µS/cm	0.05 mg/L	0.29 NTU	-275.9 mV	3.97 ft	7.40 PSU	225.00 ml/min
10/2/2024 9:50 AM	10:00	6.63 pH	24.95 °C	12,454 µS/cm	0.04 mg/L	0.24 NTU	-288.5 mV	3.96 ft	7.24 PSU	225.00 ml/min
10/2/2024 9:55 AM	15:00	6.65 pH	24.95 °C	12,311 µS/cm	0.04 mg/L	0.12 NTU	-252.6 mV	3.95 ft	7.15 PSU	225.00 ml/min
10/2/2024 10:00 AM	20:00	6.67 pH	24.94 °C	12,298 µS/cm	0.03 mg/L	0.19 NTU	-314.4 mV	3.94 ft	7.14 PSU	225.00 ml/min
10/2/2024 10:05 AM	25:00	6.66 pH	24.94 °C	12,190 µS/cm	0.03 mg/L	0.17 NTU	-323.7 mV	3.93 ft	7.07 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/1/2024 12:37:58 PM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 4.79 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 13078.917 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 245 ml/min** **Final Draw Down: 0.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/1/2024 12:37 PM	00:00	6.77 pH	29.20 °C	13,500 µS/cm	0.11 mg/L	15.70 NTU	-211.6 mV	4.93 ft	7.90 PSU	245.00 ml/min
10/1/2024 12:41 PM	03:23	6.70 pH	26.73 °C	14,025 µS/cm	0.04 mg/L	14.50 NTU	-224.8 mV	4.95 ft	8.24 PSU	245.00 ml/min
10/1/2024 12:46 PM	08:23	6.59 pH	26.31 °C	13,870 µS/cm	0.03 mg/L	11.61 NTU	-262.5 mV	5.00 ft	8.14 PSU	245.00 ml/min
10/1/2024 12:51 PM	13:23	6.56 pH	26.23 °C	13,522 µS/cm	0.02 mg/L	9.70 NTU	-272.2 mV	5.03 ft	7.92 PSU	245.00 ml/min
10/1/2024 12:56 PM	18:23	6.58 pH	25.86 °C	13,159 µS/cm	0.02 mg/L	7.64 NTU	-278.4 mV	5.07 ft	7.68 PSU	245.00 ml/min
10/1/2024 1:01 PM	23:23	6.63 pH	25.63 °C	12,642 µS/cm	0.02 mg/L	5.40 NTU	-286.1 mV	5.10 ft	7.36 PSU	245.00 ml/min
10/1/2024 1:06 PM	28:23	6.67 pH	25.42 °C	12,422 µS/cm	0.02 mg/L	4.11 NTU	-300.2 mV	5.13 ft	7.22 PSU	245.00 ml/min
10/1/2024 1:11 PM	33:23	6.70 pH	25.43 °C	12,001 µS/cm	0.01 mg/L	3.14 NTU	-303.4 mV	5.13 ft	6.96 PSU	245.00 ml/min
10/1/2024 1:16 PM	38:23	6.73 pH	25.49 °C	11,744 µS/cm	0.01 mg/L	1.63 NTU	-305.8 mV	5.23 ft	6.80 PSU	245.00 ml/min
10/1/2024 1:21 PM	43:23	6.74 pH	25.72 °C	11,656 µS/cm	0.01 mg/L	1.27 NTU	-311.0 mV	5.28 ft	6.74 PSU	245.00 ml/min
10/1/2024 1:26 PM	48:23	6.75 pH	25.75 °C	11,589 µS/cm	0.00 mg/L	0.62 NTU	-311.8 mV	5.31 ft	6.70 PSU	245.00 ml/min
10/1/2024 1:31 PM	53:23	6.76 pH	25.60 °C	11,598 µS/cm	0.00 mg/L	0.53 NTU	-293.6 mV	5.33 ft	6.70 PSU	245.00 ml/min

Samples

Sample ID:	Description:

PT-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 1:50:34 PM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.93 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 1:50 PM	00:00	6.78 pH	27.42 °C	13,446 µS/cm	0.18 mg/L	0.97 NTU	-233.6 mV	5.99 ft	7.87 PSU	230.00 ml/min
10/15/2024 1:55 PM	05:00	6.76 pH	25.60 °C	13,628 µS/cm	0.10 mg/L	0.93 NTU	-314.6 mV	6.00 ft	7.98 PSU	230.00 ml/min
10/15/2024 2:00 PM	10:00	6.77 pH	25.36 °C	13,510 µS/cm	0.14 mg/L	0.37 NTU	-318.5 mV	6.01 ft	7.91 PSU	230.00 ml/min
10/15/2024 2:05 PM	15:00	6.81 pH	25.22 °C	13,145 µS/cm	0.06 mg/L	0.39 NTU	-325.2 mV	6.03 ft	7.67 PSU	230.00 ml/min
10/15/2024 2:10 PM	20:00	6.80 pH	25.19 °C	13,206 µS/cm	0.05 mg/L	0.37 NTU	-328.4 mV	6.05 ft	7.71 PSU	230.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals , Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 9:42:27 AM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 3.71 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/16/2024 9:42 AM	00:00	7.53 pH	22.48 °C	10,316 µS/cm	0.10 mg/L	3.49 NTU	-360.6 mV	3.76 ft	5.90 PSU	240.00 ml/min
10/16/2024 9:47 AM	05:00	7.24 pH	22.95 °C	10,103 µS/cm	0.05 mg/L	2.34 NTU	-365.2 mV	3.77 ft	5.77 PSU	240.00 ml/min
10/16/2024 9:52 AM	10:00	7.25 pH	22.85 °C	10,116 µS/cm	0.03 mg/L	2.13 NTU	-369.5 mV	3.79 ft	5.78 PSU	240.00 ml/min
10/16/2024 9:57 AM	15:00	7.27 pH	23.10 °C	9,983.1 µS/cm	0.02 mg/L	2.32 NTU	-367.8 mV	3.80 ft	5.70 PSU	240.00 ml/min
10/16/2024 10:02 AM	20:00	7.28 pH	22.92 °C	9,957.3 µS/cm	0.02 mg/L	2.15 NTU	-368.2 mV	3.83 ft	5.68 PSU	240.00 ml/min
10/16/2024 10:07 AM	25:00	7.29 pH	22.97 °C	9,941.7 µS/cm	0.01 mg/L	1.23 NTU	-368.9 mV	3.85 ft	5.67 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 9:47:58 AM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.22 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/15/2024 9:47 AM	00:00	6.90 pH	23.57 °C	8,051.0 µS/cm	0.03 mg/L	3.53 NTU	-177.7 mV	4.41 ft	4.52 PSU	220.00 ml/min
10/15/2024 9:52 AM	05:00	6.92 pH	23.97 °C	7,462.5 µS/cm	0.01 mg/L	2.35 NTU	-209.1 mV	4.45 ft	4.17 PSU	220.00 ml/min
10/15/2024 9:57 AM	10:00	6.93 pH	24.04 °C	7,482.8 µS/cm	-0.01 mg/L	3.01 NTU	-240.6 mV	4.50 ft	4.18 PSU	220.00 ml/min
10/15/2024 10:02 AM	15:00	6.93 pH	24.33 °C	7,477.0 µS/cm	-0.02 mg/L	2.34 NTU	-262.6 mV	4.55 ft	4.18 PSU	220.00 ml/min
10/15/2024 10:07 AM	20:00	6.92 pH	24.49 °C	7,477.9 µS/cm	-0.02 mg/L	1.99 NTU	-302.3 mV	4.60 ft	4.18 PSU	220.00 ml/min
10/15/2024 10:12 AM	25:00	6.92 pH	24.58 °C	7,464.5 µS/cm	-0.03 mg/L	1.96 NTU	-364.6 mV	4.66 ft	4.17 PSU	220.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/15/2024 1:32:14 PM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.6 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 6600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.82 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/15/2024 1:32 PM	00:00	6.54 pH	26.04 °C	17,656 µS/cm	0.15 mg/L	14.70 NTU	-121.8 mV	6.15 ft	10.57 PSU	220.00 ml/min
10/15/2024 1:37 PM	05:00	6.53 pH	26.31 °C	17,466 µS/cm	0.08 mg/L	12.00 NTU	-120.9 mV	6.22 ft	10.45 PSU	220.00 ml/min
10/15/2024 1:42 PM	10:00	6.53 pH	26.35 °C	17,414 µS/cm	0.05 mg/L	12.50 NTU	-124.6 mV	6.31 ft	10.41 PSU	220.00 ml/min
10/15/2024 1:47 PM	15:00	6.53 pH	26.28 °C	17,463 µS/cm	0.04 mg/L	11.18 NTU	-123.7 mV	6.34 ft	10.45 PSU	220.00 ml/min
10/15/2024 1:52 PM	20:00	6.53 pH	26.25 °C	17,443 µS/cm	0.03 mg/L	10.73 NTU	-122.5 mV	6.38 ft	10.43 PSU	220.00 ml/min
10/15/2024 1:57 PM	25:00	6.53 pH	26.23 °C	17,485 µS/cm	0.03 mg/L	9.52 NTU	-121.9 mV	6.41 ft	10.46 PSU	220.00 ml/min
10/15/2024 2:02 PM	30:00	6.53 pH	26.16 °C	17,462 µS/cm	0.02 mg/L	8.73 NTU	-120.6 mV	6.42 ft	10.44 PSU	220.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/15/2024 11:08:52 AM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.45 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 11:08 AM	00:00	6.97 pH	27.65 °C	11,972 µS/cm	1.08 mg/L	1.66 NTU	-224.8 mV	7.66 ft	6.94 PSU	230.00 ml/min
10/15/2024 11:13 AM	05:00	6.99 pH	24.40 °C	12,471 µS/cm	0.02 mg/L	0.77 NTU	-227.8 mV	7.70 ft	7.25 PSU	230.00 ml/min
10/15/2024 11:18 AM	10:00	7.01 pH	24.18 °C	12,290 µS/cm	0.00 mg/L	0.50 NTU	-312.1 mV	7.74 ft	7.13 PSU	230.00 ml/min
10/15/2024 11:23 AM	15:00	7.04 pH	24.14 °C	12,122 µS/cm	0.00 mg/L	0.38 NTU	-313.7 mV	7.80 ft	7.03 PSU	230.00 ml/min
10/15/2024 11:28 AM	20:00	7.05 pH	24.31 °C	12,021 µS/cm	-0.00 mg/L	0.47 NTU	-230.0 mV	7.81 ft	6.97 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 9:28:51 AM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.97 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 9:28 AM	00:00	6.62 pH	23.46 °C	15,095 µS/cm	0.29 mg/L	1.70 NTU	-182.7 mV	4.18 ft	8.91 PSU	230.00 ml/min
10/15/2024 9:33 AM	05:00	6.66 pH	23.29 °C	14,957 µS/cm	0.11 mg/L	0.69 NTU	-183.7 mV	4.22 ft	8.82 PSU	230.00 ml/min
10/15/2024 9:38 AM	10:00	6.70 pH	23.33 °C	14,727 µS/cm	0.06 mg/L	0.41 NTU	-259.9 mV	4.27 ft	8.67 PSU	230.00 ml/min
10/15/2024 9:43 AM	15:00	6.71 pH	23.42 °C	14,481 µS/cm	0.05 mg/L	0.51 NTU	-184.6 mV	4.29 ft	8.52 PSU	230.00 ml/min
10/15/2024 9:48 AM	20:00	6.75 pH	23.42 °C	14,173 µS/cm	0.04 mg/L	0.47 NTU	-265.7 mV	4.34 ft	8.32 PSU	230.00 ml/min
10/15/2024 9:53 AM	25:00	6.76 pH	23.41 °C	13,991 µS/cm	0.04 mg/L	0.40 NTU	-187.6 mV	4.38 ft	8.20 PSU	230.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/15/2024 3:31:54 PM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.24 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 3:31 PM	00:00	6.55 pH	26.95 °C	12,739 µS/cm	0.16 mg/L	1.48 NTU	-211.3 mV	6.35 ft	7.42 PSU	240.00 ml/min
10/15/2024 3:36 PM	05:00	6.52 pH	25.50 °C	13,003 µS/cm	0.11 mg/L	0.55 NTU	-212.1 mV	6.36 ft	7.59 PSU	240.00 ml/min
10/15/2024 3:41 PM	10:00	6.51 pH	25.30 °C	13,019 µS/cm	0.08 mg/L	0.72 NTU	-272.6 mV	6.36 ft	7.60 PSU	240.00 ml/min
10/15/2024 3:46 PM	15:00	6.51 pH	25.13 °C	13,069 µS/cm	0.07 mg/L	0.70 NTU	-276.5 mV	6.36 ft	7.63 PSU	240.00 ml/min
10/15/2024 3:51 PM	20:00	6.49 pH	24.99 °C	13,120 µS/cm	0.06 mg/L	0.36 NTU	-278.3 mV	6.37 ft	7.66 PSU	240.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 3:51:44 PM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 6.02 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/15/2024 3:51 PM	00:00	7.11 pH	26.23 °C	14,606 µS/cm	0.03 mg/L	1.22 NTU	-311.8 mV	6.09 ft	8.60 PSU	220.00 ml/min
10/15/2024 3:56 PM	05:00	6.58 pH	26.41 °C	14,283 µS/cm	0.02 mg/L	0.92 NTU	-319.6 mV	6.09 ft	8.40 PSU	220.00 ml/min
10/15/2024 4:01 PM	10:00	6.54 pH	26.41 °C	14,148 µS/cm	0.01 mg/L	0.90 NTU	-325.0 mV	6.09 ft	8.31 PSU	220.00 ml/min
10/15/2024 4:06 PM	15:00	6.54 pH	26.35 °C	13,973 µS/cm	0.01 mg/L	0.95 NTU	-323.9 mV	6.07 ft	8.20 PSU	220.00 ml/min
10/15/2024 4:11 PM	20:00	6.55 pH	26.34 °C	13,751 µS/cm	0.00 mg/L	1.06 NTU	-329.5 mV	6.06 ft	8.06 PSU	220.00 ml/min
10/15/2024 4:16 PM	25:00	6.57 pH	26.11 °C	13,564 µS/cm	0.00 mg/L	0.83 NTU	-333.1 mV	6.05 ft	7.94 PSU	220.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 10:48:32 AM
Project: Plant McManus Week 10 Performance
Operator Name: Jay Siewert

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 4.55 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 4750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L.
FD-01

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/29/2024 10:48 AM	00:00	7.21 pH	23.68 °C	14,374 µS/cm	0.19 mg/L	2.75 NTU	-319.6 mV	4.73 ft	8.45 PSU	190.00 ml/min
10/29/2024 10:53 AM	05:00	6.79 pH	24.04 °C	13,731 µS/cm	0.10 mg/L	0.32 NTU	-323.2 mV	4.77 ft	8.04 PSU	190.00 ml/min
10/29/2024 10:58 AM	10:00	6.82 pH	24.09 °C	13,455 µS/cm	0.07 mg/L	0.20 NTU	-336.9 mV	4.80 ft	7.87 PSU	190.00 ml/min
10/29/2024 11:03 AM	15:00	6.83 pH	23.98 °C	13,381 µS/cm	0.05 mg/L	0.27 NTU	-339.6 mV	4.84 ft	7.82 PSU	190.00 ml/min
10/29/2024 11:08 AM	20:00	6.83 pH	24.05 °C	13,228 µS/cm	0.04 mg/L	0.19 NTU	-331.2 mV	4.89 ft	7.72 PSU	190.00 ml/min
10/29/2024 11:13 AM	25:00	6.86 pH	23.92 °C	13,129 µS/cm	0.03 mg/L	0.16 NTU	-332.7 mV	4.92 ft	7.66 PSU	190.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 3:39:48 PM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 5.85 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 3:39 PM	00:00	7.46 pH	24.07 °C	9,683.6 µS/cm	0.19 mg/L	5.95 NTU	-325.6 mV	5.85 ft	5.52 PSU	240.00 ml/min
10/29/2024 3:44 PM	05:00	7.34 pH	23.93 °C	9,719.8 µS/cm	0.08 mg/L	4.17 NTU	-340.3 mV	5.84 ft	5.54 PSU	240.00 ml/min
10/29/2024 3:49 PM	10:00	7.34 pH	23.94 °C	9,720.5 µS/cm	0.05 mg/L	3.70 NTU	-360.8 mV	5.81 ft	5.54 PSU	240.00 ml/min
10/29/2024 3:54 PM	15:00	7.35 pH	23.93 °C	9,642.7 µS/cm	0.05 mg/L	2.75 NTU	-360.5 mV	5.80 ft	5.49 PSU	240.00 ml/min
10/29/2024 3:59 PM	20:00	7.36 pH	23.96 °C	9,608.9 µS/cm	0.04 mg/L	2.11 NTU	-360.9 mV	5.77 ft	5.47 PSU	240.00 ml/min
10/29/2024 4:04 PM	25:00	7.36 pH	23.96 °C	9,616.2 µS/cm	0.04 mg/L	1.99 NTU	-361.1 mV	5.74 ft	5.48 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 9:29:27 AM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 3.97 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6060 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 9:29 AM	00:00	6.70 pH	22.51 °C	7,592.4 µS/cm	0.10 mg/L	5.91 NTU	-151.4 mV	4.08 ft	4.25 PSU	240.00 ml/min
10/29/2024 9:34 AM	05:00	6.83 pH	22.65 °C	7,528.3 µS/cm	0.05 mg/L	4.25 NTU	-310.1 mV	4.12 ft	4.21 PSU	240.00 ml/min
10/29/2024 9:39 AM	10:15	6.90 pH	22.70 °C	7,530.6 µS/cm	0.02 mg/L	3.77 NTU	-391.5 mV	4.16 ft	4.21 PSU	240.00 ml/min
10/29/2024 9:44 AM	15:15	6.87 pH	22.69 °C	7,539.3 µS/cm	0.01 mg/L	2.78 NTU	-445.0 mV	4.19 ft	4.22 PSU	240.00 ml/min
10/29/2024 9:49 AM	20:15	6.90 pH	22.75 °C	7,564.8 µS/cm	-0.00 mg/L	2.18 NTU	-462.4 mV	4.23 ft	4.23 PSU	240.00 ml/min
10/29/2024 9:54 AM	25:15	6.90 pH	22.79 °C	7,596.3 µS/cm	-0.01 mg/L	2.58 NTU	-471.2 mV	4.25 ft	4.25 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 10:56:52 AM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 4.27 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 13200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 1.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 10:56 AM	00:00	6.60 pH	23.70 °C	17,871 µS/cm	2.44 mg/L	16.70 NTU	-162.7 mV	4.87 ft	10.70 PSU	240.00 ml/min
10/29/2024 11:01 AM	05:00	6.52 pH	23.65 °C	17,733 µS/cm	0.16 mg/L	11.70 NTU	-172.5 mV	5.03 ft	10.61 PSU	240.00 ml/min
10/29/2024 11:06 AM	10:00	6.53 pH	23.73 °C	17,733 µS/cm	0.08 mg/L	10.95 NTU	-179.0 mV	5.14 ft	10.61 PSU	240.00 ml/min
10/29/2024 11:11 AM	15:00	6.52 pH	23.78 °C	17,683 µS/cm	0.05 mg/L	8.17 NTU	-181.2 mV	5.19 ft	10.58 PSU	240.00 ml/min
10/29/2024 11:16 AM	20:00	6.52 pH	23.84 °C	17,662 µS/cm	0.04 mg/L	7.19 NTU	-179.1 mV	5.25 ft	10.57 PSU	240.00 ml/min
10/29/2024 11:21 AM	25:00	6.52 pH	23.73 °C	17,690 µS/cm	0.04 mg/L	6.82 NTU	-184.5 mV	5.29 ft	10.58 PSU	240.00 ml/min
10/29/2024 11:26 AM	30:00	6.53 pH	23.71 °C	17,650 µS/cm	0.03 mg/L	5.40 NTU	-181.7 mV	5.34 ft	10.56 PSU	240.00 ml/min
10/29/2024 11:31 AM	35:00	6.53 pH	23.79 °C	17,671 µS/cm	0.03 mg/L	5.67 NTU	-187.3 mV	5.36 ft	10.57 PSU	240.00 ml/min
10/29/2024 11:36 AM	40:00	6.54 pH	23.95 °C	17,571 µS/cm	0.02 mg/L	5.46 NTU	-188.1 mV	5.39 ft	10.51 PSU	240.00 ml/min
10/29/2024 11:41 AM	45:00	6.53 pH	23.78 °C	17,620 µS/cm	0.02 mg/L	4.88 NTU	-184.1 mV	5.43 ft	10.54 PSU	240.00 ml/min
10/29/2024 11:46 AM	50:00	6.53 pH	23.82 °C	17,621 µS/cm	0.02 mg/L	4.92 NTU	-190.0 mV	5.47 ft	10.54 PSU	240.00 ml/min
10/29/2024 11:51 AM	55:00	6.54 pH	23.87 °C	17,610 µS/cm	0.02 mg/L	4.47 NTU	-185.0 mV	5.50 ft	10.53 PSU	240.00 ml/min

Samples

Sample ID:	Description:

INW-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 1:40:07 PM
Project: Plant McManus Week 10 Performance
Operator Name: Jay Siewert

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.8 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/29/2024 1:40 PM	00:00	6.58 pH	25.39 °C	13,212 µS/cm	0.09 mg/L	0.35 NTU	-183.4 mV	5.94 ft	7.72 PSU	220.00 ml/min
10/29/2024 1:45 PM	05:00	6.60 pH	25.69 °C	12,998 µS/cm	0.02 mg/L	0.07 NTU	-229.3 mV	5.95 ft	7.58 PSU	220.00 ml/min
10/29/2024 1:50 PM	10:00	6.55 pH	25.66 °C	12,965 µS/cm	0.01 mg/L	0.12 NTU	-257.6 mV	5.97 ft	7.56 PSU	220.00 ml/min
10/29/2024 1:55 PM	15:00	6.55 pH	25.51 °C	12,688 µS/cm	0.01 mg/L	0.06 NTU	-307.6 mV	5.98 ft	7.39 PSU	220.00 ml/min
10/29/2024 2:00 PM	20:00	6.55 pH	25.62 °C	12,778 µS/cm	0.01 mg/L	0.06 NTU	-342.9 mV	6.00 ft	7.44 PSU	220.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 1:48:55 PM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.59 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 10125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 1:48 PM	00:00	6.75 pH	24.96 °C	13,927 µS/cm	0.03 mg/L	24.70 NTU	-248.4 mV	5.70 ft	8.17 PSU	225.00 ml/min
10/29/2024 1:53 PM	05:00	6.62 pH	24.78 °C	13,661 µS/cm	0.03 mg/L	19.10 NTU	-304.1 mV	5.71 ft	8.00 PSU	225.00 ml/min
10/29/2024 1:58 PM	10:00	6.63 pH	24.94 °C	13,261 µS/cm	0.02 mg/L	15.40 NTU	-280.5 mV	5.72 ft	7.75 PSU	225.00 ml/min
10/29/2024 2:03 PM	15:00	6.69 pH	24.86 °C	12,795 µS/cm	0.02 mg/L	11.40 NTU	-320.8 mV	5.74 ft	7.45 PSU	225.00 ml/min
10/29/2024 2:08 PM	20:00	6.72 pH	24.98 °C	12,479 µS/cm	0.01 mg/L	9.70 NTU	-326.7 mV	5.75 ft	7.26 PSU	225.00 ml/min
10/29/2024 2:13 PM	25:00	6.75 pH	25.12 °C	12,167 µS/cm	0.01 mg/L	7.77 NTU	-331.7 mV	5.77 ft	7.06 PSU	225.00 ml/min
10/29/2024 2:18 PM	30:00	6.77 pH	24.85 °C	12,231 µS/cm	0.02 mg/L	5.15 NTU	-334.4 mV	5.79 ft	7.10 PSU	225.00 ml/min
10/29/2024 2:23 PM	35:00	6.83 pH	24.66 °C	11,672 µS/cm	0.02 mg/L	4.02 NTU	-338.9 mV	5.81 ft	6.75 PSU	225.00 ml/min
10/29/2024 2:28 PM	40:00	6.84 pH	24.46 °C	11,689 µS/cm	0.02 mg/L	3.42 NTU	-341.9 mV	5.83 ft	6.76 PSU	225.00 ml/min
10/29/2024 2:33 PM	45:00	6.84 pH	24.36 °C	11,673 µS/cm	0.02 mg/L	2.11 NTU	-325.7 mV	5.84 ft	6.75 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 3:00:25 PM
Project: Plant McManus Week 10 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.98 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/29/2024 3:00 PM	00:00	7.23 pH	24.75 °C	15,199 µS/cm	0.15 mg/L	1.37 NTU	-311.8 mV	6.10 ft	8.98 PSU	220.00 ml/min
10/29/2024 3:05 PM	05:00	6.76 pH	24.76 °C	14,612 µS/cm	0.08 mg/L	0.36 NTU	-315.9 mV	6.10 ft	8.60 PSU	220.00 ml/min
10/29/2024 3:10 PM	10:00	6.78 pH	24.51 °C	14,404 µS/cm	0.06 mg/L	0.22 NTU	-329.0 mV	6.10 ft	8.47 PSU	220.00 ml/min
10/29/2024 3:15 PM	15:00	6.80 pH	24.36 °C	14,185 µS/cm	0.04 mg/L	0.33 NTU	-329.6 mV	6.10 ft	8.33 PSU	220.00 ml/min
10/29/2024 3:20 PM	20:00	6.82 pH	24.28 °C	13,919 µS/cm	0.03 mg/L	0.34 NTU	-330.9 mV	6.10 ft	8.16 PSU	220.00 ml/min
10/29/2024 3:25 PM	25:00	6.83 pH	24.45 °C	13,763 µS/cm	0.03 mg/L	0.12 NTU	-331.7 mV	6.10 ft	8.06 PSU	220.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 11/12/2024 3:02:50 PM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.48 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/12/2024 3:02 PM	00:00	6.74 pH	26.18 °C	14,708 µS/cm	0.13 mg/L	0.57 NTU	-235.4 mV	5.36 ft	8.67 PSU	200.00 ml/min
11/12/2024 3:07 PM	05:00	6.72 pH	26.19 °C	14,236 µS/cm	0.07 mg/L	0.31 NTU	-246.3 mV	5.30 ft	8.37 PSU	200.00 ml/min
11/12/2024 3:12 PM	10:00	6.73 pH	26.00 °C	14,177 µS/cm	0.04 mg/L	0.30 NTU	-253.5 mV	5.24 ft	8.33 PSU	200.00 ml/min
11/12/2024 3:17 PM	15:00	6.76 pH	26.06 °C	13,999 µS/cm	0.02 mg/L	0.29 NTU	-302.5 mV	5.18 ft	8.22 PSU	200.00 ml/min
11/12/2024 3:22 PM	20:00	6.79 pH	25.81 °C	13,839 µS/cm	0.02 mg/L	0.28 NTU	-306.3 mV	5.11 ft	8.12 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/13/2024 9:28:06 AM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 3.7 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/13/2024 9:28 AM	00:00	7.11 pH	24.67 °C	10,275 µS/cm	0.18 mg/L	1.80 NTU	-228.0 mV	3.86 ft	5.88 PSU	210.00 ml/min
11/13/2024 9:33 AM	05:00	7.12 pH	24.85 °C	10,389 µS/cm	0.09 mg/L	2.07 NTU	-237.8 mV	3.90 ft	5.95 PSU	210.00 ml/min
11/13/2024 9:38 AM	10:00	7.15 pH	24.94 °C	10,329 µS/cm	0.05 mg/L	1.43 NTU	-292.5 mV	3.96 ft	5.92 PSU	210.00 ml/min
11/13/2024 9:43 AM	15:00	7.17 pH	25.03 °C	10,218 µS/cm	0.03 mg/L	1.06 NTU	-295.5 mV	4.01 ft	5.85 PSU	210.00 ml/min
11/13/2024 9:48 AM	20:00	7.20 pH	25.00 °C	10,162 µS/cm	0.03 mg/L	0.72 NTU	-297.5 mV	4.06 ft	5.81 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 10:01:00 AM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.36 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/12/2024 10:01 AM	00:00	6.91 pH	24.14 °C	7,402.7 µS/cm	0.03 mg/L	2.75 NTU	-180.3 mV	5.51 ft	4.14 PSU	200.00 ml/min
11/12/2024 10:06 AM	05:00	7.00 pH	24.06 °C	7,413.0 µS/cm	0.00 mg/L	1.64 NTU	-253.2 mV	5.54 ft	4.14 PSU	200.00 ml/min
11/12/2024 10:11 AM	10:00	7.02 pH	24.16 °C	7,430.6 µS/cm	-0.01 mg/L	1.19 NTU	-353.9 mV	5.57 ft	4.15 PSU	200.00 ml/min
11/12/2024 10:16 AM	15:00	7.01 pH	24.31 °C	7,446.5 µS/cm	-0.01 mg/L	0.78 NTU	-441.0 mV	5.60 ft	4.16 PSU	200.00 ml/min
11/12/2024 10:21 AM	20:00	7.01 pH	24.43 °C	7,476.5 µS/cm	-0.02 mg/L	0.93 NTU	-469.7 mV	5.63 ft	4.18 PSU	200.00 ml/min
11/12/2024 10:26 AM	25:00	6.98 pH	24.59 °C	7,503.4 µS/cm	-0.02 mg/L	0.74 NTU	-487.2 mV	5.66 ft	4.20 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/12/2024 2:51:48 PM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.44 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/12/2024 2:51 PM	00:00	6.56 pH	25.49 °C	16,978 µS/cm	0.13 mg/L	1.32 NTU	-144.9 mV	5.82 ft	10.13 PSU	200.00 ml/min
11/12/2024 2:56 PM	05:00	6.56 pH	25.38 °C	16,900 µS/cm	0.09 mg/L	0.73 NTU	-146.1 mV	5.83 ft	10.08 PSU	200.00 ml/min
11/12/2024 3:01 PM	10:00	6.55 pH	25.31 °C	16,935 µS/cm	0.08 mg/L	0.84 NTU	-156.4 mV	5.81 ft	10.10 PSU	200.00 ml/min
11/12/2024 3:06 PM	15:00	6.55 pH	25.29 °C	16,935 µS/cm	0.07 mg/L	1.20 NTU	-147.0 mV	5.76 ft	10.10 PSU	200.00 ml/min
11/12/2024 3:11 PM	20:00	6.55 pH	25.22 °C	16,965 µS/cm	0.07 mg/L	0.99 NTU	-156.6 mV	5.71 ft	10.12 PSU	200.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 9:49:59 AM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.73 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/12/2024 9:49 AM	00:00	7.31 pH	24.52 °C	13,740 µS/cm	0.01 mg/L	0.75 NTU	-314.5 mV	7.99 ft	8.05 PSU	200.00 ml/min
11/12/2024 9:54 AM	05:00	6.94 pH	24.95 °C	13,314 µS/cm	0.00 mg/L	0.36 NTU	-337.1 mV	8.01 ft	7.78 PSU	200.00 ml/min
11/12/2024 9:59 AM	10:00	6.95 pH	24.97 °C	13,229 µS/cm	-0.00 mg/L	0.24 NTU	-338.1 mV	8.06 ft	7.73 PSU	200.00 ml/min
11/12/2024 10:04 AM	15:00	6.97 pH	24.94 °C	13,112 µS/cm	-0.00 mg/L	0.29 NTU	-317.2 mV	8.10 ft	7.65 PSU	200.00 ml/min
11/12/2024 10:09 AM	20:00	6.99 pH	25.07 °C	13,003 µS/cm	-0.01 mg/L	0.28 NTU	-338.9 mV	8.13 ft	7.59 PSU	200.00 ml/min
11/12/2024 10:14 AM	25:00	7.01 pH	25.12 °C	12,908 µS/cm	-0.01 mg/L	0.26 NTU	-338.9 mV	8.17 ft	7.53 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/12/2024 12:18:00 PM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.91 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/12/2024 12:18 PM	00:00	7.05 pH	25.73 °C	16,654 µS/cm	0.08 mg/L	0.72 NTU	-242.3 mV	6.05 ft	9.92 PSU	200.00 ml/min
11/12/2024 12:23 PM	05:00	6.75 pH	25.90 °C	15,279 µS/cm	0.04 mg/L	0.46 NTU	-245.0 mV	6.07 ft	9.03 PSU	200.00 ml/min
11/12/2024 12:28 PM	10:00	6.75 pH	26.03 °C	15,130 µS/cm	0.03 mg/L	0.42 NTU	-294.6 mV	6.11 ft	8.94 PSU	200.00 ml/min
11/12/2024 12:33 PM	15:00	6.78 pH	25.90 °C	14,815 µS/cm	0.02 mg/L	0.33 NTU	-297.1 mV	6.11 ft	8.74 PSU	200.00 ml/min
11/12/2024 12:38 PM	20:00	6.77 pH	25.96 °C	14,800 µS/cm	0.02 mg/L	0.41 NTU	-298.1 mV	6.11 ft	8.73 PSU	200.00 ml/min
11/12/2024 12:43 PM	25:00	6.79 pH	25.90 °C	14,562 µS/cm	0.01 mg/L	0.29 NTU	-300.1 mV	6.12 ft	8.58 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/13/2024 9:23:20 AM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.79 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.47 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/13/2024 9:23 AM	00:00	6.42 pH	24.12 °C	13,417 µS/cm	0.14 mg/L	0.35 NTU	-118.1 mV	4.05 ft	7.84 PSU	200.00 ml/min
11/13/2024 9:28 AM	05:00	6.43 pH	24.50 °C	13,314 µS/cm	0.07 mg/L	0.34 NTU	-154.8 mV	4.10 ft	7.78 PSU	200.00 ml/min
11/13/2024 9:33 AM	10:00	6.44 pH	24.43 °C	13,250 µS/cm	0.05 mg/L	0.43 NTU	-162.0 mV	4.16 ft	7.74 PSU	200.00 ml/min
11/13/2024 9:38 AM	15:00	6.46 pH	24.61 °C	13,170 µS/cm	0.04 mg/L	0.46 NTU	-169.9 mV	4.21 ft	7.69 PSU	200.00 ml/min
11/13/2024 9:43 AM	20:00	6.47 pH	24.72 °C	13,116 µS/cm	0.03 mg/L	0.42 NTU	-177.7 mV	4.26 ft	7.66 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 12:01:21 PM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.74 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/12/2024 12:01 PM	00:00	6.99 pH	25.84 °C	13,967 µS/cm	0.00 mg/L	0.74 NTU	-321.7 mV	5.85 ft	8.20 PSU	200.00 ml/min
11/12/2024 12:06 PM	05:00	6.49 pH	25.72 °C	14,158 µS/cm	-0.00 mg/L	0.47 NTU	-326.0 mV	5.86 ft	8.32 PSU	200.00 ml/min
11/12/2024 12:11 PM	10:00	6.49 pH	25.65 °C	14,076 µS/cm	-0.01 mg/L	0.65 NTU	-325.3 mV	5.87 ft	8.27 PSU	200.00 ml/min
11/12/2024 12:16 PM	15:00	6.49 pH	25.55 °C	13,958 µS/cm	-0.01 mg/L	1.09 NTU	-323.9 mV	5.88 ft	8.19 PSU	200.00 ml/min
11/12/2024 12:21 PM	20:00	6.52 pH	25.54 °C	13,682 µS/cm	-0.01 mg/L	1.05 NTU	-326.8 mV	5.90 ft	8.02 PSU	200.00 ml/min
11/12/2024 12:26 PM	25:00	6.55 pH	25.50 °C	13,418 µS/cm	-0.01 mg/L	0.75 NTU	-330.1 mV	5.91 ft	7.85 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Appendix C

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 23, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Week 1
Work Order: 683401

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 683401 in the left-hand footer of the data report. Revision 01 includes the addition of Iron and Sodium results to the final package.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683401001	MCM-INW-01	Ground Water	08/27/24 12:12	08/29/24 14:20
683401002	MCM-MCM-06	Ground Water	08/28/24 15:34	08/29/24 14:20
683401003	MCM-PT-01	Ground Water	08/28/24 14:10	08/29/24 14:20
683401004	MCM-PT-02	Ground Water	08/28/24 10:12	08/29/24 14:20
683401005	MCM-PT-03	Ground Water	08/27/24 15:10	08/29/24 14:20
683401006	MCM-DR-01	Ground Water	08/28/24 11:46	08/29/24 14:20
683401007	MCM-DR-02	Ground Water	08/27/24 16:30	08/29/24 14:20
683401008	MCM-DR-03	Ground Water	08/27/24 10:22	08/29/24 14:20
683401009	MCM-AP1-FD-01	Ground Water	08/27/24 12:00	08/29/24 14:20
683401010	MCM-AP1-FB-01	Water	08/27/24 17:30	08/29/24 14:20
683401011	MCM-AP1-EB-01	Water	08/27/24 17:36	08/29/24 14:20

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.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	30-AUG-2024
SM 2320B	30-AUG-2024
SM 2540C	03-SEP-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 3005A/6020B	16-SEP-2024
SW846 7470A	03-SEP-2024

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. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683401 GEL Work Order: 683401

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683401001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:12		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3350	67.0	200	mg/L		1000	CH6	08/30/24	0003	2664760	1
Sulfate		230	2.66	8.00	mg/L		20	CH6	08/30/24	2142	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1242	2665343	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.293	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1302	2665212	4
Magnesium		132	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1813	2665212	5
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.394	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		132	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0180	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.415	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		37.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		1470	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1527	2665212	6
Sodium		972	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4900	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		6.00	0.725	2.00	mg/L			JW2	08/30/24	1102	2665390	8
Bicarbonate alkalinity (CaCO3)		6.00	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683401001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683401002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 15:34		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3290	33.5	100	mg/L		500	CH6	08/30/24	0034	2664760	1
Sulfate		348	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1251	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.618	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1317	2665212	3
Magnesium		233	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1835	2665212	4
Arsenic		0.111	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0902	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		129	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		71.2	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1600	2665212	5
Sodium		1800	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1533	2665212	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/24	1833	2665212	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0534	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.145	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5380	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		305	0.725	2.00	mg/L			JW2	08/30/24	1105	2665390	9
Bicarbonate alkalinity (CaCO3)		305	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683401002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683401003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 14:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4360	33.5	100	mg/L		500	CH6	08/30/24	0104	2664760	1
Sulfate		526	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1252	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Magnesium		283	0.250	0.750	mg/L	1.00	25	BAJ	09/08/24	1335	2665212	3
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1841	2665212	4
Arsenic	J	0.0131	0.0100	0.0250	mg/L	1.00	5					
Barium		0.687	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		176	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0310	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.279	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		82.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2340	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1534	2665212	5
Boron		0.656	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1333	2665212	6
Iron	J	0.446	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1601	2665212	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8320	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		231	0.725	2.00	mg/L			JW2	08/30/24	1108	2665390	9
Bicarbonate alkalinity (CaCO3)		231	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683401003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683401004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 10:12		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4090	33.5	100	mg/L		500	CH6	08/30/24	0135	2664760	1
Sulfate		499	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1254	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		2380	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1535	2665212	3
Iron		3.11	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1602	2665212	4
Boron		0.554	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1318	2665212	5
Magnesium		245	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1847	2665212	6
Arsenic	J	0.0101	0.0100	0.0250	mg/L	1.00	5					
Barium		0.582	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		167	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0210	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.248	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		71.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6620	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		208	0.725	2.00	mg/L			JW2	08/30/24	1110	2665390	8
Bicarbonate alkalinity (CaCO3)		208	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683401004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683401005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4030	33.5	100	mg/L		500	CH6	08/30/24	0206	2664760	1
Sulfate		464	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1255	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		128	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1536	2665212	3
Sodium		2270	8.00	25.0	mg/L	1.00	100					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1852	2665212	4
Arsenic	J	0.0226	0.0100	0.0250	mg/L	1.00	5					
Barium		0.344	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		164	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0305	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.379	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	J	0.00159	0.00100	0.00500	mg/L	1.00	5					
Potassium		66.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		0.586	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1319	2665212	5
Magnesium		216	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6820	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		145	0.725	2.00	mg/L			JW2	08/30/24	1111	2665390	7
Bicarbonate alkalinity (CaCO3)		145	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683401005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683401006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 11:46		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4280	33.5	100	mg/L		500	CH6	08/30/24	0237	2664760	1
Sulfate		478	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1300	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1904	2665212	3
Arsenic		0.0385	0.0100	0.0250	mg/L	1.00	5					
Barium		0.341	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		169	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0397	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.194	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		79.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2390	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1537	2665212	4
Iron		0.552	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1603	2665212	5
Magnesium		303	0.250	0.750	mg/L	1.00	25	BAJ	09/08/24	1337	2665212	6
Boron		0.631	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1336	2665212	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7650	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		252	0.725	2.00	mg/L			JW2	08/30/24	1113	2665390	9
Bicarbonate alkalinity (CaCO3)		252	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683401006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683401007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 16:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2690	33.5	100	mg/L		500	CH6	08/30/24	0410	2664760	1
Sulfate		310	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1302	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1909	2665212	3
Arsenic		0.151	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0813	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		100	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	J	0.00244	0.00100	0.00500	mg/L	1.00	5					
Potassium		65.5	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/24	1907	2665212	4
Chromium	J	0.00407	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000300	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0428	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.105	0.00100	0.00500	mg/L	1.00	1					
Sodium		1730	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1538	2665212	5
Boron		0.777	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1321	2665212	6
Magnesium		170	0.0500	0.150	mg/L	1.00	5					
Iron		5.47	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1604	2665212	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4570	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		321	0.725	2.00	mg/L			JW2	08/30/24	1114	2665390	9
Bicarbonate alkalinity (CaCO3)		321	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683401007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683401008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 10:22		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2340	33.5	100	mg/L		500	CH6	08/30/24	0440	2664760	1
Sulfate		111	1.33	4.00	mg/L		10	CH6	08/30/24	2213	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1304	2665343	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Barium		0.0590	0.000670	0.00400	mg/L	1.00	1	BAJ	09/07/24	1912	2665212	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000315	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0315	0.00300	0.0100	mg/L	1.00	1					
Potassium		26.8	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		334	0.800	2.50	mg/L	1.00	10	BAJ	09/16/24	1544	2665212	5
Iron		1210	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1539	2665212	6
Boron		0.354	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1322	2665212	7
Magnesium		99.3	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1915	2665212	8
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		153	0.400	1.00	mg/L	1.00	5					
Manganese		1.53	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3080	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		28.0	0.725	2.00	mg/L			JW2	08/30/24	1116	2665390	10
Bicarbonate alkalinity (CaCO3)		28.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683401008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683401009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		105	1.33	4.00	mg/L		10	CH6	08/30/24	2244	2664760	1
Chloride		2320	33.5	100	mg/L		500	CH6	08/30/24	0511	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1305	2665343	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		333	0.800	2.50	mg/L	1.00	10	BAJ	09/16/24	1545	2665212	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/24	1924	2665212	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0325	0.00300	0.0100	mg/L	1.00	1					
Potassium		26.7	0.0800	0.300	mg/L	1.00	1					
Boron		0.348	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1324	2665212	6
Magnesium		100	0.0500	0.150	mg/L	1.00	5					
Iron		1210	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1540	2665212	7
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1927	2665212	8
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0595	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		152	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Manganese		1.54	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3380	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.5	0.725	2.00	mg/L			JW2	08/30/24	1118	2665390	10
Bicarbonate alkalinity (CaCO3)		14.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683401009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	683401010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	27-AUG-24 17:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	0542	2664760	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1307	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1259	2665212	3
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	09/16/24	1525	2665212	4
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1929	2665212	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1119	2665390	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	683401010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	683401011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	27-AUG-24 17:36		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	0613	2664760	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1309	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1301	2665212	3
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1935	2665212	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	09/16/24	1526	2665212	5
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1121	2665390	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	683401011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 23, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664760										
QC1205840176 683390005 DUP										
Chloride		4.09		4.08	mg/L	0.414		(0%-20%)	CH6	08/29/24 21:59
Sulfate		201		201	mg/L	0.189		(0%-20%)		08/30/24 08:17
QC1205839267 LCS										
Chloride	5.00			4.91	mg/L		98.3	(90%-110%)		08/29/24 14:32
Sulfate	10.0			9.59	mg/L		95.9	(90%-110%)		
QC1205839266 MB										
Chloride			U	ND	mg/L					08/29/24 14:01
Sulfate			U	ND	mg/L					
QC1205840177 683390005 PS										
Chloride	5.00	4.09		9.56	mg/L		109	(90%-110%)		08/29/24 22:30
Sulfate	10.0	10.1		20.2	mg/L		102	(90%-110%)		08/30/24 08:47
Metals Analysis - ICPMS										
Batch 2665212										
QC1205840136 LCS										
Antimony	0.0500			0.0506	mg/L		101	(80%-120%)	BAJ	09/07/24 17:50
Arsenic	0.0500			0.0502	mg/L		100	(80%-120%)		
Barium	0.0500			0.0509	mg/L		102	(80%-120%)		

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665212										
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)	BAJ	09/07/24 17:50
Boron	0.100			0.102	mg/L		102	(80%-120%)		09/08/24 12:58
Cadmium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 17:50
Calcium	2.00			2.07	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Iron	2.00			2.16	mg/L		108	(80%-120%)		09/16/24 15:24
Lead	0.0500			0.0492	mg/L		98.5	(80%-120%)		09/07/24 17:50
Lithium	0.0500			0.0530	mg/L		106	(80%-120%)		
Magnesium	2.00			2.12	mg/L		106	(80%-120%)		09/08/24 12:58
Manganese	0.0500			0.0498	mg/L		99.7	(80%-120%)		09/07/24 17:50
Molybdenum	0.0500			0.0515	mg/L		103	(80%-120%)		
Potassium	2.00			1.99	mg/L		99.5	(80%-120%)		
Selenium	0.0500			0.0510	mg/L		102	(80%-120%)		

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665212										
Sodium	2.00			2.37	mg/L		118	(80%-120%)	BAJ	09/16/24 15:24
Thallium	0.0500			0.0473	mg/L		94.6	(80%-120%)		09/07/24 17:50
QC1205840135 MB										
Antimony			U	ND	mg/L					09/07/24 17:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					09/08/24 12:57
Cadmium			U	ND	mg/L					09/07/24 17:47
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					09/16/24 15:23
Lead			U	ND	mg/L					09/07/24 17:47
Lithium			U	ND	mg/L					

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665212											
Magnesium				U	ND	mg/L				BAJ	09/08/24 12:57
Manganese				U	ND	mg/L					09/07/24 17:47
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					09/16/24 15:23
Thallium				U	ND	mg/L					09/07/24 17:47
QC1205840137 683401001 MS											
Antimony	0.0500	U	ND		0.0500	mg/L		99.8	(75%-125%)		09/07/24 18:16
Arsenic	0.0500	U	ND		0.0500	mg/L		97.7	(75%-125%)		
Barium	0.0500		0.394		0.436	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Boron	0.100		0.293		0.392	mg/L		99	(75%-125%)		09/08/24 13:04
Cadmium	0.0500	U	ND		0.0475	mg/L		94.9	(75%-125%)		09/07/24 18:16
Calcium	2.00		132		134	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665212											
Chromium	0.0500	U	ND		0.0488	mg/L		95.8	(75%-125%)	BAJ	09/07/24 18:16
Cobalt	0.0500	U	ND		0.0474	mg/L		94.6	(75%-125%)		
Iron	2.00		1470		1480	mg/L		N/A	(75%-125%)		09/16/24 15:28
Lead	0.0500	U	ND		0.0454	mg/L		90.6	(75%-125%)		09/07/24 18:16
Lithium	0.0500	J	0.0180		0.0696	mg/L		103	(75%-125%)		
Magnesium	2.00		132		133	mg/L		N/A	(75%-125%)		09/08/24 13:04
Manganese	0.0500		0.415		0.465	mg/L		N/A	(75%-125%)		09/07/24 18:16
Molybdenum	0.0500	U	ND		0.0536	mg/L		107	(75%-125%)		
Potassium	2.00		37.7		39.2	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0483	mg/L		93.5	(75%-125%)		
Sodium	2.00		972		964	mg/L		N/A	(75%-125%)		09/16/24 15:28
Thallium	0.0500	U	ND		0.0430	mg/L		86	(75%-125%)		09/07/24 18:16
QC1205840138 683401001 MSD											
Antimony	0.0500	U	ND		0.0485	mg/L	2.98	96.9	(0%-20%)		09/07/24 18:18
Arsenic	0.0500	U	ND		0.0486	mg/L	2.79	95	(0%-20%)		

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665212											
Barium	0.0500		0.394		0.430	mg/L	1.21	N/A	(0%-20%)	BAJ	09/07/24 18:18
Beryllium	0.0500	U	ND		0.0492	mg/L	3.19	98.2	(0%-20%)		
Boron	0.100		0.293		0.385	mg/L	1.68	92.4	(0%-20%)		09/08/24 13:05
Cadmium	0.0500	U	ND		0.0464	mg/L	2.35	92.6	(0%-20%)		09/07/24 18:18
Calcium	2.00		132		130	mg/L	3.1	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0472	mg/L	3.38	92.5	(0%-20%)		
Cobalt	0.0500	U	ND		0.0460	mg/L	3.05	91.8	(0%-20%)		
Iron	2.00		1470		1430	mg/L	3.39	N/A	(0%-20%)		09/16/24 15:29
Lead	0.0500	U	ND		0.0439	mg/L	3.26	87.7	(0%-20%)		09/07/24 18:18
Lithium	0.0500	J	0.0180		0.0682	mg/L	2.02	100	(0%-20%)		
Magnesium	2.00		132		131	mg/L	1.81	N/A	(0%-20%)		09/08/24 13:05
Manganese	0.0500		0.415		0.447	mg/L	3.95	N/A	(0%-20%)		09/07/24 18:18
Molybdenum	0.0500	U	ND		0.0520	mg/L	2.85	104	(0%-20%)		
Potassium	2.00		37.7		38.6	mg/L	1.51	N/A	(0%-20%)		

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665212												
Selenium	0.0500	U	ND		0.0503	mg/L	4.08	97.6	(0%-20%)	BAJ	09/07/24	18:18
Sodium	2.00		972		945	mg/L	1.94	N/A	(0%-20%)		09/16/24	15:29
Thallium	0.0500	U	ND		0.0418	mg/L	2.77	83.6	(0%-20%)		09/07/24	18:18
QC1205840139 683401001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			78.9		16.6	ug/L	5.08		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			58.5	J	14.8	ug/L	26.3		(0%-20%)		09/08/24	13:08
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24
Calcium			26500		5390	ug/L	1.91		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron			14700		2980	ug/L	1.52		(0%-20%)		09/16/24	15:30
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665212												
Lithium		J	3.60	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/07/24	18:24
Magnesium			26300		5780	ug/L	9.78		(0%-20%)		09/08/24	13:08
Manganese			83.1		17.4	ug/L	4.84		(0%-20%)		09/07/24	18:24
Molybdenum		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Potassium			7550		1530	ug/L	1.38		(0%-20%)			
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Sodium			9720		1930	ug/L	.726		(0%-20%)		09/16/24	15:30
Thallium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24
Metals Analysis-Mercury												
Batch 2665343												
QC1205840376 683401001 DUP												
Mercury		U	ND	U	ND	mg/L	N/A			JP2	09/03/24	12:44
QC1205840375 LCS												
Mercury	0.00200				0.00201	mg/L		101	(80%-120%)		09/03/24	12:41
QC1205840374 MB												
Mercury				U	ND	mg/L					09/03/24	12:36
QC1205840377 683401001 MS												
Mercury	0.00200	U	ND		0.00195	mg/L		95.7	(75%-125%)		09/03/24	12:46

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2665343										
QC1205840378 683401001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	09/03/24 12:47
Solids Analysis										
Batch 2666209										
QC1205842574 683236002 DUP										
Total Dissolved Solids		238		236	mg/L	0.844		(0%-5%)	KLP1	09/03/24 15:31
QC1205842572 LCS										
Total Dissolved Solids	300			298	mg/L		99.3	(95%-105%)		09/03/24 15:31
QC1205842571 MB										
Total Dissolved Solids			U	ND	mg/L					09/03/24 15:31
Titration and Ion Analysis										
Batch 2665390										
QC1205840553 683401001 DUP										
Alkalinity, Total as CaCO3		6.00		5.00	mg/L	18.2	^	(+/-2.00)	JW2	08/30/24 11:03
Bicarbonate alkalinity (CaCO3)		6.00		5.00	mg/L	18.2	^	(+/-2.00)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205840554 683401008 DUP										
Alkalinity, Total as CaCO3		28.0		27.5	mg/L	1.8		(0%-20%)		08/30/24 11:17
Bicarbonate alkalinity (CaCO3)		28.0		27.5	mg/L	1.8		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205840485 LCS										
Alkalinity, Total as CaCO3	50.0			51.0	mg/L		102	(90%-110%)		08/30/24 10:59

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2665390										
QC1205840486 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)	JW2	08/30/24 11:01
QC1205840555 683401001 MS										
Alkalinity, Total as CaCO3	50.0	6.00		58.0	mg/L		104	(80%-120%)		08/30/24 11:04
QC1205840556 683401008 MS										
Alkalinity, Total as CaCO3	50.0	28.0		79.0	mg/L		102	(80%-120%)		08/30/24 11:17

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **683401**

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

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665212

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665211

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205840135	Method Blank (MB)**ICP-MS**
1205840136	Laboratory Control Sample (LCS)
1205840139	683401001(MCM-INW-01L) Serial Dilution (SD)
1205840137	683401001(MCM-INW-01S) Matrix Spike (MS)
1205840138	683401001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683401001 (MCM-INW-01), 683401002

(MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 683401001 (MCM-INW-01), 683401002 (MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	683401								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	5X	5X	5X	5X	5X	5X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	5X	5X	5X	5X	1X	5X
Beryllium	5X	1X	5X	5X	5X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	5X	5X	5X	5X	1X	1X	1X
Cobalt	5X	1X	5X	5X	5X	5X	1X	1X	1X
Iron	100X	5X	5X	5X	100X	5X	5X	100X	100X
Lead	5X	5X	5X	5X	5X	5X	5X	1X	5X
Lithium	5X	1X	5X	5X	5X	5X	1X	1X	1X
Magnesium	5X	5X	25X	5X	5X	25X	5X	5X	5X
Manganese	5X	1X	5X	5X	5X	5X	1X	5X	5X
Molybdenum	5X	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	1X	1X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	10X	10X
Thallium	5X	5X	5X	5X	5X	5X	5X	1X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665343

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665342

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03

683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205840374	Method Blank (MB)**CVAA**
1205840375	Laboratory Control Sample (LCS)
1205840378	683401001(MCM-INW-01L) Serial Dilution (SD)
1205840376	683401001(MCM-INW-01D) Sample Duplicate (DUP)
1205840377	683401001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664760

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205839266	Method Blank (MB)
1205839267	Laboratory Control Sample (LCS)
1205840176	683390005(NonSDG) Sample Duplicate (DUP)
1205840177	683390005(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 683401001 (MCM-INW-01), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 683401001 (MCM-INW-01), 683401002 (MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683401								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Sulfate	20X	500X	500X	500X	500X	500X	500X	10X	10X

Miscellaneous Information

Manual Integrations
Samples 1205840176 (Non SDG 683390005DUP) and 1205840177 (Non SDG 683390005PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666209

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205842571	Method Blank (MB)
1205842572	Laboratory Control Sample (LCS)
1205842574	683236002(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 683401001 (MCM-INW-01), 683401002 (MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665390

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205840485	Laboratory Control Sample (LCS)
1205840486	Laboratory Control Sample (LCS)
1205840553	683401001(MCM-INW-01) Sample Duplicate (DUP)
1205840554	683401008(MCM-DR-03) Sample Duplicate (DUP)
1205840555	683401001(MCM-INW-01) Matrix Spike (MS)
1205840556	683401008(MCM-DR-03) 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.

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager:** ~~Erin Trent~~ Ariana Pinnick

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683401
683403

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
									NI	NI								
MCM-INW-01	8/27/24	1212	G	Y*	WG				X	X	X	X	X					Comments Note: extra sample is required for sample specific QC
MCM-MCM-06	8/28/24	1534	G	Y*	WG				X	X	X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	8/28/24	1410	G	Y*	WG				X	X	X	X	X					
MCM-PT-02	8/28/24	1012	G	Y*	WG				X	X	X	X	X					** Build Total & Dissolved Metals
MCM-PT-03	8/27/24	1510	G	Y*	WG				X	X	X	X	X					
MCM-DR-01	8/28/24	1146	G	Y*	WG				X	X	X	X	X					
MCM-DR-02	8/27/24	1630	G	Y*	WG				X	X	X	X	X					
MCM-DR-03	8/27/24	1022	G	Y*	WG				X	X	X	X	X					
MCM-AP1-FD-01	8/27/24	—	FD	Y*	WG				X	X	X	X	X					
MCM-AP1-FB-01	8/27/24	1730	FB	N	WQ				X		X	X	X					

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Resolute Environmental	8/29/24	1425	1 Stacy B	8/29/24	14:20
			2		
			3		

TAT Requested: Normal: ___X__ Rush: ~~X~~ ** Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Leve

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

*** For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 41 of 45 SDG 683401 Rev1

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: ~~Erin Trent~~ Katrina Rivers

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	NI								<-- Preservative Type (6)
									Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					**Comments** Note: extra sample is required for sample specific QC
MCM-AP1-EB-01	8/27/24	1736	EB	N	WQ				X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Natalie Piparo	Resolute Environmental 08/28/24	0900	1 KTB	8/29/24	14:20
2			2		
3			3		

TAT Requested: Normal: __X__ Rush: __X__ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Leve

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

683401
683403
683406 AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: PCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 0° 2 - 0°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) 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: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 23 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 23, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Week 1
Work Order: 683403

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 683403 in the left-hand footer of the data report. Revision 01 includes the addition of Iron and Sodium results to the final package.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683403001	MCM-INW-01	Ground Water	08/27/24 12:12	08/29/24 14:20
683403002	MCM-MCM-06	Ground Water	08/28/24 15:34	08/29/24 14:20
683403003	MCM-PT-01	Ground Water	08/28/24 14:10	08/29/24 14:20
683403004	MCM-PT-02	Ground Water	08/28/24 10:12	08/29/24 14:20
683403005	MCM-PT-03	Ground Water	08/27/24 15:10	08/29/24 14:20
683403006	MCM-DR-01	Ground Water	08/28/24 11:46	08/29/24 14:20
683403007	MCM-DR-02	Ground Water	08/27/24 16:30	08/29/24 14:20
683403008	MCM-DR-03	Ground Water	08/27/24 10:22	08/29/24 14:20
683403009	MCM-AP1-FD-01	Ground Water	08/27/24 12:00	08/29/24 14:20

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.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	16-SEP-2024
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	10-SEP-2024
SW846 3005A/6020B	17-SEP-2024
SW846 7470A	03-SEP-2024

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. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683403 GEL Work Order: 683403

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683403001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:12		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1310	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/10/24	0146	2665214	2
Barium		0.358	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0186	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.341	0.00100	0.00500	mg/L	1.00	1					
Potassium		37.1	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0204	2665214	3
Boron		0.283	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		128	0.400	1.00	mg/L	1.00	5					
Magnesium		123	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Iron		1330	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1020	2672584	4
Sodium		838	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683403001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683403002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 15:34		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1312	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron	J	0.0360	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1050	2672584	2
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0247	2665214	3
Arsenic		0.107	0.0100	0.0250	mg/L	1.00	5					
Boron		0.696	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		140	0.400	1.00	mg/L	1.00	5					
Magnesium		238	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		76.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		1560	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1032	2672584	4
Barium		0.0907	0.000670	0.00400	mg/L	1.00	1	PRB	09/10/24	0229	2665214	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0615	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.164	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683403002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683403003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 14:10		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1314	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.106	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1052	2672584	2
Sodium		2140	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1033	2672584	3
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0255	2665214	4
Arsenic	J	0.0141	0.0100	0.0250	mg/L	1.00	5					
Barium		0.661	0.00335	0.0200	mg/L	1.00	5					
Boron		0.759	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		180	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		88.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Magnesium		274	0.100	0.300	mg/L	1.00	10	PRB	09/10/24	0258	2665214	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/24	0233	2665214	6
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0381	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.274	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683403003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683403004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 10:12		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1315	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/24	0236	2665214	2
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.261	0.00100	0.00500	mg/L	1.00	1					
Magnesium		254	0.100	0.300	mg/L	1.00	10	PRB	09/10/24	0313	2665214	3
Sodium		2070	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1035	2672584	4
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0309	2665214	5
Arsenic	J	0.0107	0.0100	0.0250	mg/L	1.00	5					
Barium		0.585	0.00335	0.0200	mg/L	1.00	5					
Boron		0.589	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		171	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		73.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		2.59	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1054	2672584	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683403004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

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: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683403005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:10		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1320	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		127	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1037	2672584	2
Sodium		1850	8.00	25.0	mg/L	1.00	100					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/10/24	0240	2665214	3
Arsenic		0.00747	0.00200	0.00500	mg/L	1.00	1					
Barium		0.319	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0333	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.425	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00148	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.573	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/24	0316	2665214	4
Calcium		165	0.400	1.00	mg/L	1.00	5					
Magnesium		209	0.0500	0.150	mg/L	1.00	5					
Potassium		65.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683403005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683403006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 11:46		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1322	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.214	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1056	2672584	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/24	0244	2665214	3
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0462	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.176	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0324	2665214	4
Arsenic		0.0400	0.0100	0.0250	mg/L	1.00	5					
Barium		0.280	0.00335	0.0200	mg/L	1.00	5					
Boron		0.659	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		155	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		76.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2150	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1039	2672584	5
Magnesium		273	0.100	0.300	mg/L	1.00	10	PRB	09/10/24	0327	2665214	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683403006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683403007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 16:30		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1323	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0352	2665214	2
Boron		0.811	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		99.8	0.400	1.00	mg/L	1.00	5					
Magnesium		167	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		65.1	0.400	1.50	mg/L	1.00	5					
Arsenic		0.0571	0.00200	0.00500	mg/L	1.00	1	PRB	09/10/24	0331	2665214	3
Barium		0.0758	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0527	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0890	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1510	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1041	2672584	4
Iron	J	0.0707	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1058	2672584	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683403007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683403008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 10:22		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1325	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.314	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/24	0400	2665214	2
Calcium		149	0.400	1.00	mg/L	1.00	5					
Magnesium		93.9	0.0500	0.150	mg/L	1.00	5					
Manganese		1.46	0.00500	0.0250	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/10/24	0334	2665214	3
Arsenic	J	0.00450	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0522	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0364	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000678	0.000200	0.00100	mg/L	1.00	1					
Potassium		27.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		1080	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1043	2672584	4
Sodium		298	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683403008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683403009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:00		
Receive Date:	29-AUG-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1327	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		1120	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1045	2672584	2
Sodium		314	8.00	25.0	mg/L	1.00	100					
Boron		0.307	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/24	0403	2665214	3
Calcium		147	0.400	1.00	mg/L	1.00	5					
Magnesium		92.0	0.0500	0.150	mg/L	1.00	5					
Manganese		1.44	0.00500	0.0250	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/10/24	0338	2665214	4
Arsenic	J	0.00444	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0361	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000691	0.000200	0.00100	mg/L	1.00	1					
Potassium		27.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683403009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 23, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2665214											
QC1205840141 LCS											
Antimony	0.0500			0.0507	mg/L		101	(80%-120%)	PRB	09/10/24	01:35
Arsenic	0.0500			0.0505	mg/L		101	(80%-120%)			
Barium	0.0500			0.0510	mg/L		102	(80%-120%)			
Beryllium	0.0500			0.0587	mg/L		117	(80%-120%)			
Boron	0.100			0.116	mg/L		116	(80%-120%)			
Cadmium	0.0500			0.0518	mg/L		104	(80%-120%)			
Calcium	2.00			2.16	mg/L		108	(80%-120%)			
Chromium	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Lead	0.0500			0.0537	mg/L		107	(80%-120%)			
Lithium	0.0500			0.0550	mg/L		110	(80%-120%)			
Magnesium	2.00			2.12	mg/L		106	(80%-120%)			

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
Manganese	0.0500			0.0491	mg/L		98.2	(80%-120%)	PRB	09/10/24 01:35
Molybdenum	0.0500			0.0548	mg/L		110	(80%-120%)		
Potassium	2.00			2.03	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Thallium	0.0500			0.0482	mg/L		96.3	(80%-120%)		
QC1205840140 MB										
Antimony			U	ND	mg/L					09/10/24 01:31
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **683403**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665214											
Lead				U	ND	mg/L				PRB	09/10/24 01:31
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Manganese				U	ND	mg/L					
Molybdenum				J	0.000207	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205840142 683403001 MS											
Antimony	0.0500	U	ND		0.0504	mg/L		100	(75%-125%)		09/10/24 02:07
Arsenic	0.0500	U	ND		0.0445	mg/L		87.8	(75%-125%)		09/10/24 01:49
Barium	0.0500		0.358		0.405	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0503	mg/L		100	(75%-125%)		
Boron	0.100		0.283		0.372	mg/L		88.8	(75%-125%)		09/10/24 02:07
Cadmium	0.0500	U	ND		0.0477	mg/L		95.4	(75%-125%)		

QC Summary

Workorder: **683403**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665214											
Calcium	2.00		128		131	mg/L		N/A	(75%-125%)	PRB	09/10/24 02:07
Chromium	0.0500	U	ND		0.0482	mg/L		96.1	(75%-125%)		09/10/24 01:49
Cobalt	0.0500	U	ND		0.0467	mg/L		93.3	(75%-125%)		
Lead	0.0500	U	ND		0.0462	mg/L		92.3	(75%-125%)		
Lithium	0.0500		0.0186		0.0699	mg/L		103	(75%-125%)		
Magnesium	2.00		123		126	mg/L		N/A	(75%-125%)		09/10/24 02:07
Manganese	0.0500		0.341		0.386	mg/L		N/A	(75%-125%)		09/10/24 01:49
Molybdenum	0.0500	U	ND		0.0535	mg/L		107	(75%-125%)		09/10/24 02:07
Potassium	2.00		37.1		39.7	mg/L		N/A	(75%-125%)		09/10/24 01:49
Selenium	0.0500	U	ND		0.0413	mg/L		81.5	(75%-125%)		
Thallium	0.0500	U	ND		0.0431	mg/L		85.9	(75%-125%)		
QC1205840143 683403001 MSD											
Antimony	0.0500	U	ND		0.0517	mg/L	2.53	103	(0%-20%)		09/10/24 02:11
Arsenic	0.0500	U	ND		0.0442	mg/L	0.728	87.2	(0%-20%)		09/10/24 01:53
Barium	0.0500		0.358		0.413	mg/L	2.09	N/A	(0%-20%)		

QC Summary

Workorder: **683403**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665214											
Beryllium	0.0500	U	ND		0.0483	mg/L	4.02	96.5	(0%-20%)	PRB	09/10/24 01:53
Boron	0.100		0.283		0.376	mg/L	1.03	92.7	(0%-20%)		09/10/24 02:11
Cadmium	0.0500	U	ND		0.0488	mg/L	2.19	97.5	(0%-20%)		
Calcium	2.00		128		135	mg/L	3.67	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0473	mg/L	1.91	94.3	(0%-20%)		09/10/24 01:53
Cobalt	0.0500	U	ND		0.0462	mg/L	1.19	92.2	(0%-20%)		
Lead	0.0500	U	ND		0.0467	mg/L	1.14	93.4	(0%-20%)		
Lithium	0.0500		0.0186		0.0690	mg/L	1.35	101	(0%-20%)		
Magnesium	2.00		123		129	mg/L	2.95	N/A	(0%-20%)		09/10/24 02:11
Manganese	0.0500		0.341		0.382	mg/L	1.03	N/A	(0%-20%)		09/10/24 01:53
Molybdenum	0.0500	U	ND		0.0535	mg/L	0.00934	107	(0%-20%)		09/10/24 02:11
Potassium	2.00		37.1		39.6	mg/L	0.211	N/A	(0%-20%)		09/10/24 01:53
Selenium	0.0500	U	ND		0.0392	mg/L	5.19	77.3	(0%-20%)		
Thallium	0.0500	U	ND		0.0434	mg/L	0.604	86.5	(0%-20%)		

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
QC1205840144 683403001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/10/24 02:18
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 02:00
Barium		358		74.5	ug/L	4.07		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron		56.6	J	9.88	ug/L	12.7		(0%-20%)		09/10/24 02:18
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		25600		4950	ug/L	3.36		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 02:00
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		18.6	J	3.40	ug/L	8.53		(0%-20%)		
Magnesium		24700		4930	ug/L	.136		(0%-20%)		09/10/24 02:18
Manganese		341		68.6	ug/L	.668		(0%-20%)		09/10/24 02:00
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 02:18

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
Potassium		37100		7370	ug/L	.636		(0%-20%)	PRB	09/10/24 02:00
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2672584										
QC1205855647 LCS										
Iron	2.00			2.09	mg/L		104	(80%-120%)	PRB	09/17/24 10:18
Sodium	2.00			2.28	mg/L		114	(80%-120%)		
QC1205855646 MB										
Iron			U	ND	mg/L					09/17/24 10:16
Sodium			U	ND	mg/L					
QC1205855648 683403001 MS										
Iron	2.00	1330		1320	mg/L		N/A	(75%-125%)		09/17/24 10:22
Sodium	2.00	838		839	mg/L		N/A	(75%-125%)		
QC1205855649 683403001 MSD										
Iron	2.00	1330		1280	mg/L	3.58	N/A	(0%-20%)		09/17/24 10:24
Sodium	2.00	838		804	mg/L	4.23	N/A	(0%-20%)		
QC1205855650 683403001 SDILT										
Iron		13300		2620	ug/L	1.23		(0%-20%)		09/17/24 10:26
Sodium		8380		1710	ug/L	1.9		(0%-20%)		

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2665343										
QC1205840376 683401001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 12:44
QC1205840375 LCS										
Mercury	0.00200			0.00201	mg/L		101	(80%-120%)		09/03/24 12:41
QC1205840374 MB										
Mercury			U	ND	mg/L					09/03/24 12:36
QC1205840377 683401001 MS										
Mercury	0.00200	U ND		0.00195	mg/L		95.7	(75%-125%)		09/03/24 12:46
QC1205840378 683401001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/03/24 12:47

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	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
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
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.
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

QC Summary

Workorder: **683403**

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

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.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 683403

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665214

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665213

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

GEL Sample ID#	Client Sample Identification
683403001	MCM-INW-01
683403002	MCM-MCM-06
683403003	MCM-PT-01
683403004	MCM-PT-02
683403005	MCM-PT-03
683403006	MCM-DR-01
683403007	MCM-DR-02
683403008	MCM-DR-03
683403009	MCM-AP1-FD-01
1205840140	Method Blank (MB)**ICP-MS**
1205840141	Laboratory Control Sample (LCS)
1205840144	683403001(MCM-INW-01L) Serial Dilution (SD)
1205840142	683403001(MCM-INW-01S) Matrix Spike (MS)
1205840143	683403001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683403001 (MCM-INW-01), 683403002 (MCM-MCM-06), 683403003 (MCM-PT-01), 683403004 (MCM-PT-02), 683403005 (MCM-PT-03), 683403006 (MCM-DR-01), 683403007 (MCM-DR-02), 683403008 (MCM-DR-03) and 683403009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the

SOP, samples 683403001 (MCM-INW-01), 683403002 (MCM-MCM-06), 683403003 (MCM-PT-01), 683403004 (MCM-PT-02), 683403006 (MCM-DR-01) and 683403007 (MCM-DR-02) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	683403								
	001	002	003	004	005	006	007	008	009
Antimony	5X	5X	5X	5X	1X	5X	5X	1X	1X
Arsenic	1X	5X	5X	5X	1X	5X	1X	1X	1X
Barium	1X	1X	5X	5X	1X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	1X	5X	5X	1X	1X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Lead	1X	1X	5X	5X	1X	5X	1X	1X	1X
Magnesium	5X	5X	10X	10X	5X	10X	5X	5X	5X
Manganese	1X	1X	1X	1X	1X	1X	1X	5X	5X
Molybdenum	5X	5X	5X	5X	1X	5X	5X	1X	1X
Potassium	1X	5X	5X	5X	5X	5X	5X	1X	1X
Selenium	1X	5X	5X	5X	1X	5X	1X	1X	1X
Thallium	1X	1X	5X	5X	1X	5X	1X	1X	1X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672584

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672583

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

GEL Sample ID#	Client Sample Identification
683403001	MCM-INW-01
683403002	MCM-MCM-06
683403003	MCM-PT-01
683403004	MCM-PT-02
683403005	MCM-PT-03
683403006	MCM-DR-01
683403007	MCM-DR-02
683403008	MCM-DR-03
683403009	MCM-AP1-FD-01
1205855646	Method Blank (MB)**ICP-MS**
1205855647	Laboratory Control Sample (LCS)
1205855650	683403001(MCM-INW-01L) Serial Dilution (SD)
1205855648	683403001(MCM-INW-01S) Matrix Spike (MS)
1205855649	683403001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683403								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Iron	100X	1X	1X	1X	100X	1X	1X	100X	100X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665343

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665342

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

GEL Sample ID#	Client Sample Identification
683403001	MCM-INW-01
683403002	MCM-MCM-06
683403003	MCM-PT-01
683403004	MCM-PT-02
683403005	MCM-PT-03
683403006	MCM-DR-01
683403007	MCM-DR-02
683403008	MCM-DR-03
683403009	MCM-AP1-FD-01
1205840374	Method Blank (MB)**CVAA**
1205840375	Laboratory Control Sample (LCS)
1205840378	683401001(MCM-INW-01L) Serial Dilution (SD)
1205840376	683401001(MCM-INW-01D) Sample Duplicate (DUP)
1205840377	683401001(MCM-INW-01S) 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.

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager:** ~~Erin Trent~~ Allison Pinnick

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

683401
683403

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
									NI	NI								
MCM-INW-01	8/27/24	1212	G	Y*	WG				X	X	X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	8/28/24	1534	G	Y*	WG				X	X	X	X	X					
MCM-PT-01	8/28/24	1410	G	Y*	WG				X	X	X	X	X					
MCM-PT-02	8/28/24	1012	G	Y*	WG				X	X	X	X	X					** Rush Total & Dissolved Metals
MCM-PT-03	8/27/24	1510	G	Y*	WG				X	X	X	X	X					
MCM-DR-01	8/28/24	1146	G	Y*	WG				X	X	X	X	X					
MCM-DR-02	8/27/24	1630	G	Y*	WG				X	X	X	X	X					
MCM-DR-03	8/27/24	1022	G	Y*	WG				X	X	X	X	X					
MCM-AP1-FD-01	8/27/24	—	FD	Y*	WG				X	X	X	X	X					
MCM-AP1-FB-01	8/27/24	1730	FB	N	WQ				X		X	X	X					

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Resolute Environmental	8/29/24	1420 1600	1	8/29/24	14:20
			2		
			3		

TAT Requested: Normal: __X__ Rush: X** Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Leve

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

[2] *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

[1] Chain of Custody Number = Client Determined

[2] QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

[3] Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

[4] Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

[5] Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

[6] Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

[7] **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

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Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: ~~Erin Trent~~ Alaina Pinnick

2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	8/27/24	1736	EB	N	WQ				X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 08/28/24		1	8/29/24	14:20
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush: ~~X~~ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Leve

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

683401
683403
683406 AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: PCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 0° 2 - 0°

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) 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: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 23 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 20, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 684573

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 06, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
684573001	MCM-INW-01	Ground Water	09/05/24 11:46	09/06/24 12:52
684573002	MCM-MCM-06	Ground Water	09/05/24 15:38	09/06/24 12:52
684573003	MCM-PT-01	Ground Water	09/05/24 09:25	09/06/24 12:52
684573004	MCM-PT-02	Ground Water	09/05/24 14:17	09/06/24 12:52
684573005	MCM-PT-03	Ground Water	09/05/24 14:22	09/06/24 12:52
684573006	MCM-DR-01	Ground Water	09/05/24 11:39	09/06/24 12:52
684573007	MCM-DR-02	Ground Water	09/05/24 15:54	09/06/24 12:52
684573008	MCM-DR-03	Ground Water	09/05/24 09:22	09/06/24 12:52
684573009	MCM-AP1-FD-01	Ground Water	09/05/24 12:00	09/06/24 12:52

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.

Prep Methods and Prep Dates

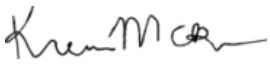
Method	Run Date ID
SW846 3005A	09-SEP-2024
SW846 7470A Prep	09-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	20-SEP-2024
SW846 7470A	10-SEP-2024
SW846 7470A	11-SEP-2024

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. 4443.

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 684573 GEL Work Order: 684573

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684573001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:46		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1203	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1002	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.663	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.414	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		207	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684573001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684573002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:38		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1208	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1016	2668630	2
Arsenic		0.125	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0831	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.732	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium		0.0555	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684573002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684573003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:25		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1210	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1025	2668630	2
Arsenic	J	0.0105	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.721	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.758	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0322	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684573003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684573004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:17		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1212	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1028	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.711	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.609	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		4.22	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0177	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684573004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684573005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:22		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1125	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1031	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.430	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.647	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		3.40	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0291	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684573005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684573006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:39		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1126	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1033	2668630	2
Arsenic	J	0.0236	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.377	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.752	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.201	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0454	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684573006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684573007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:54		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1128	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1036	2668630	2
Arsenic		0.0616	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0713	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.950	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium		0.0536	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684573007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684573008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:22		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1130	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1039	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0453	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.687	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0482	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		437	0.825	2.50	mg/L	1.00	25	BAJ	09/20/24	1227	2668630	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684573008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684573009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 12:00		
Receive Date:	06-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1131	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1042	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.406	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.648	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		3.82	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0287	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684573009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2668630											
QC1205847274 LCS											
Antimony	0.0500			0.0489	mg/L		97.9	(80%-120%)	BAJ	09/20/24	09:59
Arsenic	0.0500			0.0490	mg/L		98.1	(80%-120%)			
Barium	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Beryllium	0.0500			0.0598	mg/L		120	(80%-120%)			
Boron	0.100			0.117	mg/L		117	(80%-120%)			
Cadmium	0.0500			0.0496	mg/L		99.1	(80%-120%)			
Chromium	0.0500			0.0483	mg/L		96.6	(80%-120%)			
Cobalt	0.0500			0.0472	mg/L		94.3	(80%-120%)			
Iron	2.00			1.94	mg/L		97	(80%-120%)			
Lead	0.0500			0.0509	mg/L		102	(80%-120%)			
Lithium	0.0500			0.0585	mg/L		117	(80%-120%)			
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)			

QC Summary

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2668630											
Selenium	0.0500			0.0499	mg/L		99.9	(80%-120%)	BAJ	09/20/24	09:59
Thallium	0.0500			0.0485	mg/L		97.1	(80%-120%)			
QC1205847273 MB											
Antimony			U	ND	mg/L					09/20/24	09:56
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			U	ND	mg/L						

QC Summary

Workorder: **684573**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668630											
Selenium				U	ND	mg/L				BAJ	09/20/24 09:56
Thallium				U	ND	mg/L					
QC1205847275 684573001 MS											
Antimony	0.0500	U	ND		0.0489	mg/L		97.6	(75%-125%)		09/20/24 10:05
Arsenic	0.0500	U	ND		0.0534	mg/L		103	(75%-125%)		
Barium	0.0500	J	0.663		0.675	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0449	mg/L		89.4	(75%-125%)		
Boron	0.100		0.414		0.490	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0464	mg/L		92.9	(75%-125%)		
Chromium	0.0500	U	ND		0.0476	mg/L		95.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0447	mg/L		89.3	(75%-125%)		
Iron	2.00		207		204	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0442	mg/L		88.4	(75%-125%)		
Lithium	0.0500	U	ND		0.0606	mg/L		92.8	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0549	mg/L		108	(75%-125%)		

QC Summary

Workorder: **684573**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2668630												
Selenium	0.0500	U	ND		0.0540	mg/L		102	(75%-125%)	BAJ	09/20/24	10:05
Thallium	0.0500	U	ND		0.0426	mg/L		85.1	(75%-125%)			
QC1205847276 684573001 MSD												
Antimony	0.0500	U	ND		0.0504	mg/L	3.04	101	(0%-20%)		09/20/24	10:08
Arsenic	0.0500	U	ND		0.0507	mg/L	5.23	98	(0%-20%)			
Barium	0.0500	J	0.663		0.680	mg/L	0.743	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0454	mg/L	1.1	90.4	(0%-20%)			
Boron	0.100		0.414		0.484	mg/L	1.13	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	0.665	93.5	(0%-20%)			
Chromium	0.0500	U	ND		0.0476	mg/L	0.0946	95	(0%-20%)			
Cobalt	0.0500	U	ND		0.0456	mg/L	1.98	91	(0%-20%)			
Iron	2.00		207		200	mg/L	1.93	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0446	mg/L	0.923	89.2	(0%-20%)			
Lithium	0.0500	U	ND		0.0612	mg/L	1.03	94	(0%-20%)			
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.934	109	(0%-20%)			

QC Summary

Workorder: **684573**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2668630												
Selenium	0.0500	U	ND		0.0538	mg/L	0.325	102	(0%-20%)	BAJ	09/20/24	10:08
Thallium	0.0500	U	ND		0.0427	mg/L	0.235	85.3	(0%-20%)			
QC1205847277 684573001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/20/24	10:13
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	133	J	26.7	ug/L	.659		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			82.9		20.7	ug/L	25.2		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron			41300		8490	ug/L	2.69		(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668630										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/20/24 10:13
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2668865										
QC1205847902 684298010 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/10/24 11:32
QC1205847901 LCS										
Mercury	0.00200			0.00203	mg/L		101	(80%-120%)		09/10/24 11:29
QC1205847900 MB										
Mercury			U	ND	mg/L					09/10/24 11:24
QC1205847903 684298010 MS										
Mercury	0.00200	U	ND	0.00202	mg/L		101	(75%-125%)		09/10/24 11:34
QC1205847904 684298010 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/10/24 11:36
Batch 2669371										
QC1205849549 684503003 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/11/24 10:58
QC1205849191 LCS										
Mercury	0.00200			0.00204	mg/L		102	(80%-120%)		09/11/24 10:51
QC1205849190 MB										
Mercury			U	ND	mg/L					09/11/24 10:50

QC Summary

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2669371										
QC1205849550 684503003 MS										
Mercury	0.00200	U	ND		0.00170	mg/L		84.8	(75%-125%)	JP2 09/11/24 10:59
QC1205849551 684503003 SDILT										
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	09/11/24 11:04

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	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
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
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.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
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.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 684573

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2668630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2668629

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

GEL Sample ID#	Client Sample Identification
684573001	MCM-INW-01
684573002	MCM-MCM-06
684573003	MCM-PT-01
684573004	MCM-PT-02
684573005	MCM-PT-03
684573006	MCM-DR-01
684573007	MCM-DR-02
684573008	MCM-DR-03
684573009	MCM-AP1-FD-01
1205847273	Method Blank (MB)**ICP-MS**
1205847274	Laboratory Control Sample (LCS)
1205847277	684573001(MCM-INW-01L) Serial Dilution (SD)
1205847275	684573001(MCM-INW-01S) Matrix Spike (MS)
1205847276	684573001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 684573008 (MCM-DR-03) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	684573								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	5X	5X	5X	5X	5X	5X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Beryllium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cobalt	5X	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X	5X	5X	25X	5X
Lead	5X	5X	5X	5X	5X	5X	5X	5X	5X
Lithium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Molybdenum	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Thallium	5X	5X	5X	5X	5X	5X	5X	5X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2668865

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2668864

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

GEL Sample ID#	Client Sample Identification
684573001	MCM-INW-01
684573002	MCM-MCM-06
684573003	MCM-PT-01
684573004	MCM-PT-02
1205847900	Method Blank (MB)**CVAA**
1205847901	Laboratory Control Sample (LCS)
1205847904	684298010(NonSDGL) Serial Dilution (SD)
1205847902	684298010(NonSDGD) Sample Duplicate (DUP)
1205847903	684298010(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# 40
Analytical Batch: 2669371

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2669368

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

GEL Sample ID#	Client Sample Identification
684573005	MCM-PT-03
684573006	MCM-DR-01
684573007	MCM-DR-02
684573008	MCM-DR-03
684573009	MCM-AP1-FD-01
1205849190	Method Blank (MB)**CVAA**
1205849191	Laboratory Control Sample (LCS)
1205849551	684503003(NonSDGL) Serial Dilution (SD)
1205849549	684503003(NonSDGD) Sample Duplicate (DUP)
1205849550	684503003(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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

684564
684573

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-INW-01	09/05/24	1146	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09/05/24	1538	G	Y*	WG			3	X	X	X		
MCM-PT-01	09/05/24	0925	G	Y*	WG			3	X	X	X		
MCM-PT-02	09/05/24	1417	G	Y*	WG			3	X	X	X		
MCM-PT-03	09/05/24	1422	G	Y*	WG			3	X	X	X		
MCM-DR-01	09/05/24	1139	G	Y*	WG			3	X	X	X		
MCM-DR-02	09/05/24	1554	G	Y*	WG			3	X	X	X		
MCM-DR-03	09/05/24	0922	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	09/05/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	09/05/24	1646	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/6/24	1252		9/6/24	1252
2						
3						

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 33 of 36 SDG 684573

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page 34 of 36 SDG: 684573

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	09/05/24	1658	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental	9/6/24	1252	1	9/6/24	1252
2			2		
3			3		

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [·] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

684564
684573

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/6/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: [redacted] 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: 1c
4	~~Daily check performed and passed on IR temperature gun?~~	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/9/24 Page 1 of 1

List of current GEL Certifications as of 20 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 20, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 684564

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 06, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
684564001	MCM-INW-01	Ground Water	09/05/24 11:46	09/06/24 12:52
684564002	MCM-MCM-06	Ground Water	09/05/24 15:38	09/06/24 12:52
684564003	MCM-PT-01	Ground Water	09/05/24 09:25	09/06/24 12:52
684564004	MCM-PT-02	Ground Water	09/05/24 14:17	09/06/24 12:52
684564005	MCM-PT-03	Ground Water	09/05/24 14:22	09/06/24 12:52
684564006	MCM-DR-01	Ground Water	09/05/24 11:39	09/06/24 12:52
684564007	MCM-DR-02	Ground Water	09/05/24 15:54	09/06/24 12:52
684564008	MCM-DR-03	Ground Water	09/05/24 09:22	09/06/24 12:52
684564009	MCM-AP1-FD-01	Ground Water	09/05/24 12:00	09/06/24 12:52
684564010	MCM-AP1-FB-01	Water	09/05/24 16:48	09/06/24 12:52
684564011	MCM-AP1-EB-01	Water	09/05/24 16:58	09/06/24 12:52

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.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	09-SEP-2024
SW846 7470A Prep	09-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	09-SEP-2024
EPA 300.0	10-SEP-2024
SW846 3005A/6020B	18-SEP-2024
SW846 7470A	10-SEP-2024

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. 4443.

Sincerely,

Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 684564 GEL Work Order: 684564

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Hannah Bowden

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684564001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:46		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5830	67.0	200	mg/L		1000	CWW	09/10/24	1135	2669330	1
Sulfate		808	66.5	200	mg/L		500	CWW	09/09/24	1950	2669330	2
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1000	2669330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1142	2668865	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.451	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0259	2668628	5
Iron		205	0.330	1.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0241	2668628	6
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.637	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0131	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000881	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00189	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684564001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684564002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:38		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1310	2669330	1
Chloride		3250	33.5	100	mg/L		500	CWW	09/09/24	2126	2669330	2
Sulfate		310	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1144	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.751	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0339	2668628	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0321	2668628	5
Arsenic		0.110	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0822	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0442	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0531	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000906	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00162	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684564002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684564003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:25		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4550	33.5	100	mg/L		500	CWW	09/09/24	2157	2669330	1
Sulfate		542	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1342	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1149	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0324	2668628	4
Arsenic	J	0.00878	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.693	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.118	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0293	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000676	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00199	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.751	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0342	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684564003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684564004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:17		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4450	33.5	100	mg/L		500	CWW	09/09/24	2229	2669330	1
Sulfate		538	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1414	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1150	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0328	2668628	4
Arsenic	J	0.00368	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.660	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.70	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0159	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000686	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00207	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.549	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0346	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684564004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684564005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:22		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4530	33.5	100	mg/L		500	CWW	09/09/24	2301	2669330	1
Sulfate		546	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1446	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1152	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.634	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0349	2668628	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0331	2668628	5
Arsenic		0.0105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.389	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		6.29	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0282	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000517	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00195	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684564005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684564006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:39		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1653	2669330	1
Chloride		4550	33.5	100	mg/L		500	CWW	09/09/24	2333	2669330	2
Sulfate		509	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1154	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.724	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0353	2668628	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0335	2668628	5
Arsenic		0.0205	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.370	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.302	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0409	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000655	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00196	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684564006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684564007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:54		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2860	33.5	100	mg/L		500	CWW	09/10/24	0140	2669330	1
Sulfate		325	66.5	200	mg/L		500					
Fluoride	J	0.918	0.660	2.00	mg/L		20	CWW	09/10/24	1725	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1155	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0404	2668628	4
Arsenic		0.0659	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0675	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.26	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.00121	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00162	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.838	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0422	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684564007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684564008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:22		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2290	33.5	100	mg/L		500	CWW	09/10/24	0212	2669330	1
Sulfate		249	66.5	200	mg/L		500					
Fluoride	J	1.42	0.660	2.00	mg/L		20	CWW	09/10/24	1757	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1157	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0408	2668628	4
Arsenic	J	0.00538	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0420	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0482	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.00111	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.675	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0426	2668628	5
Iron		403	0.330	1.00	mg/L	1.00	10					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684564008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684564009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 12:00		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1933	2669330	1
Chloride		4450	33.5	100	mg/L		500	CWW	09/10/24	0348	2669330	2
Sulfate		534	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1158	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0411	2668628	4
Arsenic		0.0110	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.389	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		5.92	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0276	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000500	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00187	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.574	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0429	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684564009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	684564010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	05-SEP-24 16:48		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/10/24	0419	2669330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1200	2668865	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0415	2668628	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00775	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	684564010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	684564011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	05-SEP-24 16:58		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/10/24	0451	2669330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1202	2668865	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0418	2668628	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	684564011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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 20, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2669330													
QC1205849109 684564001 DUP													
Chloride			5830		5770	mg/L	1.07			(0%-20%)	CWW	09/10/24	12:07
Fluoride		U	ND	U	ND	mg/L	N/A					09/10/24	10:31
Sulfate			808		800	mg/L	0.995	^		(+/-200)		09/09/24	20:22
QC1205849111 684564008 DUP													
Chloride			2290		2280	mg/L	0.521			(0%-20%)		09/10/24	02:44
Fluoride		J	1.42	J	1.28	mg/L	10.5	^		(+/-2.00)		09/10/24	18:29
Sulfate			249		263	mg/L	5.65	^		(+/-200)		09/10/24	02:44
QC1205849108 LCS													
Chloride	5.00				5.20	mg/L			104	(90%-110%)		09/09/24	19:18
Fluoride	2.50				2.56	mg/L			102	(90%-110%)			
Sulfate	10.0				10.5	mg/L			105	(90%-110%)			
QC1205849107 MB													
Chloride				U	ND	mg/L						09/09/24	18:46
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2669330											
QC1205849110 684564001 PS											
Chloride	5.00		5.83		11.4	mg/L		111*	(90%-110%)	CWW	09/10/24 12:39
Fluoride	2.50	U	ND		2.66	mg/L		106	(90%-110%)		09/10/24 11:03
Sulfate	10.0		1.62		11.9	mg/L		103	(90%-110%)		09/09/24 20:54
QC1205849112 684564008 PS											
Chloride	5.00		4.58		10.1	mg/L		110	(90%-110%)		09/10/24 03:16
Fluoride	2.50	J	0.0711		2.86	mg/L		111*	(90%-110%)		09/10/24 19:01
Sulfate	10.0		0.497		10.7	mg/L		102	(90%-110%)		09/10/24 03:16
Metals Analysis - ICPMS											
Batch 2668628											
QC1205847269 LCS											
Antimony	0.0500				0.0478	mg/L		95.6	(80%-120%)	PRB	09/18/24 02:30
Arsenic	0.0500				0.0481	mg/L		96.2	(80%-120%)		
Barium	0.0500				0.0489	mg/L		97.7	(80%-120%)		
Beryllium	0.0500				0.0521	mg/L		104	(80%-120%)		
Boron	0.100				0.105	mg/L		105	(80%-120%)		
Cadmium	0.0500				0.0491	mg/L		98.2	(80%-120%)		
Chromium	0.0500				0.0476	mg/L		95.2	(80%-120%)		

QC Summary

Workorder: **684564**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668628										
Cobalt	0.0500			0.0473	mg/L		94.6	(80%-120%)	PRB	09/18/24 02:30
Iron	2.00			1.88	mg/L		93.9	(80%-120%)		
Lead	0.0500			0.0489	mg/L		97.7	(80%-120%)		
Lithium	0.0500			0.0512	mg/L		102	(80%-120%)		
Molybdenum	0.0500			0.0505	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0490	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0465	mg/L		93.1	(80%-120%)		
QC1205847268 MB										
Antimony			U	ND	mg/L					09/18/24 02:26
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668628											
Cobalt				U	ND	mg/L				PRB	09/18/24 02:26
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				J	0.000264	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205847270 684564001 MS											
Antimony	0.0500	U	ND		0.0467	mg/L		93	(75%-125%)		09/18/24 02:44
Arsenic	0.0500	U	ND		0.0458	mg/L		88.6	(75%-125%)		
Barium	0.0500	J	0.637		0.674	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0423	mg/L		84.6	(75%-125%)		
Boron	0.100		0.451		0.536	mg/L		N/A	(75%-125%)		09/18/24 03:03
Cadmium	0.0500	U	ND		0.0413	mg/L		82.6	(75%-125%)		09/18/24 02:44
Chromium	0.0500	U	ND		0.0466	mg/L		92.5	(75%-125%)		

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668628											
Cobalt	0.0500	U	ND		0.0429	mg/L		85.7	(75%-125%)	PRB	09/18/24 02:44
Iron	2.00		205		209	mg/L		N/A	(75%-125%)		09/18/24 03:03
Lead	0.0500	U	ND		0.0424	mg/L		84.7	(75%-125%)		09/18/24 02:44
Lithium	0.0500	J	0.0131		0.0610	mg/L		95.8	(75%-125%)		
Molybdenum	0.0500	J	0.000881		0.0551	mg/L		109	(75%-125%)		
Selenium	0.0500	J	0.00189		0.0465	mg/L		89.3	(75%-125%)		
Thallium	0.0500	U	ND		0.0414	mg/L		82.5	(75%-125%)		
QC1205847271 684564001 MSD											
Antimony	0.0500	U	ND		0.0462	mg/L	1.01	92.1	(0%-20%)		09/18/24 02:48
Arsenic	0.0500	U	ND		0.0461	mg/L	0.587	89.1	(0%-20%)		
Barium	0.0500	J	0.637		0.691	mg/L	2.47	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0432	mg/L	2.15	86.4	(0%-20%)		
Boron	0.100		0.451		0.516	mg/L	3.83	N/A	(0%-20%)		09/18/24 03:06
Cadmium	0.0500	U	ND		0.0411	mg/L	0.595	82.1	(0%-20%)		09/18/24 02:48
Chromium	0.0500	U	ND		0.0469	mg/L	0.642	93.1	(0%-20%)		

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668628											
Cobalt	0.0500	U	ND		0.0427	mg/L	0.425	85.3	(0%-20%)	PRB	09/18/24 02:48
Iron	2.00		205		207	mg/L	0.992	N/A	(0%-20%)		09/18/24 03:06
Lead	0.0500	U	ND		0.0429	mg/L	1.12	85.7	(0%-20%)		09/18/24 02:48
Lithium	0.0500	J	0.0131		0.0615	mg/L	0.785	96.8	(0%-20%)		
Molybdenum	0.0500	J	0.000881		0.0565	mg/L	2.44	111	(0%-20%)		
Selenium	0.0500	J	0.00189		0.0458	mg/L	1.64	87.8	(0%-20%)		
Thallium	0.0500	U	ND		0.0421	mg/L	1.69	83.9	(0%-20%)		
QC1205847272 684564001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/18/24 02:55
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	637	J	132	ug/L	3.24		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			45.1	J	9.60	ug/L	6.4		(0%-20%)		09/18/24 03:10
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/18/24 02:55
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **684564**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668628										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/18/24 02:55
Iron		20500		4160	ug/L	1.76		(0%-20%)		09/18/24 03:10
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/18/24 02:55
Lithium	J	13.1	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.881	J	0.269	ug/L	52.7		(0%-20%)		
Selenium	J	1.89	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2668865										
QC1205847902 684298010 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/10/24 11:32
QC1205847901 LCS										
Mercury 0.00200				0.00203	mg/L		101	(80%-120%)		09/10/24 11:29
QC1205847900 MB										
Mercury			U	ND	mg/L					09/10/24 11:24
QC1205847903 684298010 MS										
Mercury 0.00200	U	ND		0.00202	mg/L		101	(75%-125%)		09/10/24 11:34
QC1205847904 684298010 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/10/24 11:36

QC Summary

Workorder: **684564**

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

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2668628

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2668627

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

GEL Sample ID#	Client Sample Identification
684564001	MCM-INW-01
684564002	MCM-MCM-06
684564003	MCM-PT-01
684564004	MCM-PT-02
684564005	MCM-PT-03
684564006	MCM-DR-01
684564007	MCM-DR-02
684564008	MCM-DR-03
684564009	MCM-AP1-FD-01
684564010	MCM-AP1-FB-01
684564011	MCM-AP1-EB-01
1205847268	Method Blank (MB)**ICP-MS**
1205847269	Laboratory Control Sample (LCS)
1205847272	684564001(MCM-INW-01L) Serial Dilution (SD)
1205847270	684564001(MCM-INW-01S) Matrix Spike (MS)
1205847271	684564001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 684564001 (MCM-INW-01), 684564002

(MCM-MCM-06), 684564003 (MCM-PT-01), 684564004 (MCM-PT-02), 684564005 (MCM-PT-03), 684564006 (MCM-DR-01), 684564007 (MCM-DR-02), 684564008 (MCM-DR-03) and 684564009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	684564								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Boron	10X	10X	10X	10X	10X	10X	10X	10X	10X
Iron	10X	1X	1X	1X	1X	1X	1X	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2668865

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2668864

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

GEL Sample ID#	Client Sample Identification
684564001	MCM-INW-01
684564002	MCM-MCM-06
684564003	MCM-PT-01
684564004	MCM-PT-02
684564005	MCM-PT-03
684564006	MCM-DR-01
684564007	MCM-DR-02
684564008	MCM-DR-03
684564009	MCM-AP1-FD-01
684564010	MCM-AP1-FB-01
684564011	MCM-AP1-EB-01
1205847900	Method Blank (MB)**CVAA**
1205847901	Laboratory Control Sample (LCS)
1205847904	684298010(NonSDGL) Serial Dilution (SD)
1205847902	684298010(NonSDGD) Sample Duplicate (DUP)
1205847903	684298010(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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2669330

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

GEL Sample ID#	Client Sample Identification
684564001	MCM-INW-01
684564002	MCM-MCM-06
684564003	MCM-PT-01
684564004	MCM-PT-02
684564005	MCM-PT-03
684564006	MCM-DR-01
684564007	MCM-DR-02
684564008	MCM-DR-03
684564009	MCM-AP1-FD-01
684564010	MCM-AP1-FB-01
684564011	MCM-AP1-EB-01
1205849107	Method Blank (MB)
1205849108	Laboratory Control Sample (LCS)
1205849109	684564001(MCM-INW-01) Sample Duplicate (DUP)
1205849110	684564001(MCM-INW-01) Post Spike (PS)
1205849111	684564008(MCM-DR-03) Sample Duplicate (DUP)
1205849112	684564008(MCM-DR-03) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205849110 (MCM-INW-01PS)	111* (90%-110%)
Fluoride	1205849112 (MCM-DR-03PS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205849109 (MCM-INW-01DUP), 1205849110 (MCM-INW-01PS) and 684564001 (MCM-INW-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205849109 (MCM-INW-01DUP), 1205849110 (MCM-INW-01PS), 1205849111 (MCM-DR-03DUP), 1205849112 (MCM-DR-03PS), 684564001 (MCM-INW-01), 684564002 (MCM-MCM-06), 684564003 (MCM-PT-01), 684564004 (MCM-PT-02), 684564005 (MCM-PT-03), 684564006 (MCM-DR-01), 684564007 (MCM-DR-02), 684564008 (MCM-DR-03) and 684564009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205849109 (MCM-INW-01DUP), 1205849110 (MCM-INW-01PS), 1205849111 (MCM-DR-03DUP), 1205849112 (MCM-DR-03PS), 684564001 (MCM-INW-01), 684564002 (MCM-MCM-06), 684564003 (MCM-PT-01), 684564004 (MCM-PT-02), 684564005 (MCM-PT-03), 684564006 (MCM-DR-01),

684564007 (MCM-DR-02), 684564008 (MCM-DR-03) and 684564009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	684564								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sulfate	500X	500X	500X	500X	500X	500X	500X	500X	500X

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

684564
684573

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
MCM-INW-01	09/05/24	1146	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09/05/24	1538	G	Y*	WG			3	X	X	X	
MCM-PT-01	09/05/24	0925	G	Y*	WG			3	X	X	X	
MCM-PT-02	09/05/24	1417	G	Y*	WG			3	X	X	X	
MCM-PT-03	09/05/24	1422	G	Y*	WG			3	X	X	X	
MCM-DR-01	09/05/24	1139	G	Y*	WG			3	X	X	X	
MCM-DR-02	09/05/24	1554	G	Y*	WG			3	X	X	X	
MCM-DR-03	09/05/24	0922	G	Y*	WG			3	X	X	X	
MCM-AP1-FD-01	09/05/24	—	FD	Y*	WG			3	X	X	X	
MCM-AP1-FB-01	09/05/24	1646	FB	N	WQ			2	X		X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/6/24	01252		9/6/24	1252
2						
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	09/05/24	1658	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental	9/6/24	1252	1	9/6/24	1252
2			2		
3			3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ___ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 40 of 42 SDG 584564

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

684564
684573

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 9/6/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: [redacted] 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: 1c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/9/24 Page 1 of 1

List of current GEL Certifications as of 20 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 27, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 685645

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 13, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Client requested sample MCM-MCM-06 be reported seperately. It is reported as GEL workorder 685519. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685645001	MCM-INW-01	Ground Water	09/12/24 12:10	09/13/24 09:40
685645002	MCM-MCM-06	Ground Water	09/12/24 10:12	09/13/24 09:40
685645003	MCM-PT-01	Ground Water	09/12/24 11:57	09/13/24 09:40
685645004	MCM-PT-02	Ground Water	09/12/24 14:31	09/13/24 09:40
685645005	MCM-PT-03	Ground Water	09/12/24 13:50	09/13/24 09:40
685645006	MCM-DR-01	Ground Water	09/12/24 13:24	09/13/24 09:40
685645007	MCM-DR-02	Ground Water	09/12/24 15:08	09/13/24 09:40
685645008	MCM-DR-03	Ground Water	09/12/24 10:47	09/13/24 09:40
685645009	MCM-AP1-FD-01	Ground Water	09/12/24 12:00	09/13/24 09:40
685645010	MCM-AP1-FB-01	Water	09/12/24 13:10	09/13/24 09:40
685645011	MCM-AP1-EB-01	Water	09/12/24 13:14	09/13/24 09:40
685645012	MCM-INW-01	Ground Water	09/12/24 12:10	09/13/24 09:40
685645013	MCM-MCM-06	Ground Water	09/12/24 10:12	09/13/24 09:40
685645014	MCM-PT-01	Ground Water	09/12/24 11:57	09/13/24 09:40
685645015	MCM-PT-02	Ground Water	09/12/24 14:31	09/13/24 09:40
685645016	MCM-PT-03	Ground Water	09/12/24 13:50	09/13/24 09:40

685645017	MCM-DR-01	Ground Water	09/12/24 13:24	09/13/24 09:40
685645018	MCM-DR-02	Ground Water	09/12/24 15:08	09/13/24 09:40
685645019	MCM-DR-03	Ground Water	09/12/24 10:47	09/13/24 09:40
685645020	MCM-AP1-FD-01	Ground Water	09/12/24 12:00	09/13/24 09:40

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.

Prep Methods and Prep Dates

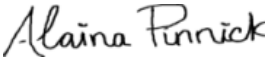
Method	Run Date ID
SW846 3005A	16-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-SEP-2024
EPA 300.0	18-SEP-2024
SW846 3005A/6020B	27-SEP-2024
SW846 7470A	19-SEP-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685645 GEL Work Order: 685645

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5360	67.0	200	mg/L		1000	CWW	09/17/24	2149	2672211	1
Sulfate		975	133	400	mg/L		1000					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1240	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1202	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1122	2672440	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.640	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.424	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		118	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	J	0.00197	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	685645002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3050	33.5	100	mg/L		500	CWW	09/17/24	2220	2672211	1
Sulfate		313	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1311	2672211	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 11:57		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1343	2672211	1
Chloride		4090	33.5	100	mg/L		500	CWW	09/17/24	2252	2672211	2
Sulfate		525	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1215	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0144	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1146	2672440	4
Barium	J	0.621	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0345	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00230	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1201	2672440	5
Boron		0.723	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 14:31		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3660	33.5	100	mg/L		500	CWW	09/17/24	2324	2672211	1
Sulfate		430	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1415	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1217	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1204	2672440	4
Boron		0.669	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0231	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1149	2672440	5
Barium	J	0.496	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.24	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0290	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00220	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:50		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.812	0.660	2.00	mg/L		20	CWW	09/18/24	1447	2672211	1
Chloride		3180	33.5	100	mg/L		500	CWW	09/17/24	2356	2672211	2
Sulfate		379	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1219	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1207	2672440	4
Boron		0.721	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic	J	0.00507	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1152	2672440	5
Barium	J	0.171	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		18.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0395	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00183	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:24		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1519	2672211	1
Chloride		4080	33.5	100	mg/L		500	CWW	09/18/24	0028	2672211	2
Sulfate		482	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1220	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1210	2672440	4
Barium	J	0.326	0.00335	2.00	mg/L	1.00	5					
Boron		0.691	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0270	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1155	2672440	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.265	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0429	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00240	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 15:08		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.870	0.660	2.00	mg/L		20	CWW	09/18/24	1551	2672211	1
Chloride		2590	33.5	100	mg/L		500	CWW	09/18/24	0100	2672211	2
Sulfate		317	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1222	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.825	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1235	2672440	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1220	2672440	5
Arsenic		0.0449	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0537	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.287	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0440	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000840	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00193	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:47		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2110	33.5	100	mg/L		500	CWW	09/18/24	0339	2672211	1
Sulfate		324	66.5	200	mg/L		500					
Fluoride		1.08	0.330	1.00	mg/L		10	CWW	09/18/24	1902	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1223	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.744	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1238	2672440	4
Iron		212	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1223	2672440	5
Arsenic	J	0.00358	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0386	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0467	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000936	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:00		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4080	33.5	100	mg/L		500	CWW	09/18/24	0411	2672211	1
Sulfate		544	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1933	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1228	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1243	2672440	4
Barium	J	0.636	0.00335	2.00	mg/L	1.00	5					
Boron		0.712	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0141	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1226	2672440	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.192	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.0358	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00226	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685645010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	12-SEP-24 13:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/18/24	0443	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1230	2673473	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1229	2672440	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00678	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685645010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685645011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	12-SEP-24 13:14		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/18/24	0514	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1232	2673473	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1232	2672440	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685645011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:10		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1233	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	09/27/24	1252	2672440	2
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lithium	J	0.0101	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1308	2672440	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.605	0.00335	2.00	mg/L	1.00	5					
Boron		0.416	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Iron		96.9	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 11:57		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1237	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1314	2672440	2
Boron		0.737	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0117	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1258	2672440	3
Barium	J	0.608	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0789	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0344	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00224	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 14:31		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1238	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1317	2672440	2
Boron		0.618	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0219	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1301	2672440	3
Barium	J	0.477	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0272	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00260	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

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Company :	Georgia Power Company
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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:50		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1240	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.701	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1320	2672440	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1305	2672440	3
Arsenic	J	0.00315	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.170	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		8.26	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0374	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000247	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00167	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:24		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1242	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1341	2672440	2
Barium	J	0.334	0.00335	2.00	mg/L	1.00	5					
Boron		0.723	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0281	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1329	2672440	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.238	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00238	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 15:08		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1243	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1332	2672440	2
Arsenic		0.0470	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0518	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0586	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000459	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.852	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1344	2672440	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:47		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1248	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.763	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1347	2672440	2
Iron		215	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1335	2672440	3
Arsenic	J	0.00357	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0379	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0466	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000821	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:00		
Receive Date:	13-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1250	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0117	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1338	2672440	2
Barium	J	0.611	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.102	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0343	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00226	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1350	2672440	3
Boron		0.716	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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 27, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2672211												
QC1205854701 685522001 DUP												
Chloride			100		100	mg/L	0.11			(0%-20%)	CWW	09/18/24 06:18
Fluoride		J	0.0749	J	0.0787	mg/L	4.95	^		(+/-0.100)		09/17/24 16:30
Sulfate			103		102	mg/L	1.38			(0%-20%)		09/18/24 06:18
QC1205854703 685645007 DUP												
Chloride			2590		2580	mg/L	0.343			(0%-20%)		09/18/24 01:31
Fluoride		J	0.870	J	0.906	mg/L	4.05	^		(+/-2.00)		09/18/24 16:22
Sulfate			317		326	mg/L	2.64	^		(+/-200)		09/18/24 01:31
QC1205854700 LCS												
Chloride	5.00				4.75	mg/L			95	(90%-110%)		09/17/24 15:26
Fluoride	2.50				2.40	mg/L			96	(90%-110%)		
Sulfate	10.0				9.73	mg/L			97.3	(90%-110%)		
QC1205854699 MB												
Chloride				U	ND	mg/L						09/17/24 14:55
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2672211											
QC1205854702 685522001 PS											
Chloride	5.00		5.02		10.2	mg/L		103	(90%-110%)	CWW	09/18/24 06:50
Fluoride	2.50	J	0.0749		2.63	mg/L		102	(90%-110%)		09/17/24 17:02
Sulfate	10.0		5.16		14.6	mg/L		94.2	(90%-110%)		09/18/24 06:50
QC1205854704 685645007 PS											
Chloride	5.00		5.17		10.3	mg/L		103	(90%-110%)		09/18/24 02:03
Fluoride	2.50	J	0.0435		2.46	mg/L		96.9	(90%-110%)		09/18/24 16:54
Sulfate	10.0		0.635		10.2	mg/L		96.1	(90%-110%)		09/18/24 02:03
Metals Analysis - ICPMS											
Batch 2672440											
QC1205855318 LCS											
Antimony	0.0500				0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500				0.0480	mg/L		96	(80%-120%)		
Barium	0.0500				0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500				0.0552	mg/L		110	(80%-120%)		
Boron	0.100				0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500				0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500				0.0486	mg/L		97.2	(80%-120%)		

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)	PRB	09/27/24 11:19
Iron	2.00			1.93	mg/L		96.6	(80%-120%)		
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)		
QC1205855317 MB										
Antimony			U	ND	mg/L					09/27/24 11:16
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Cobalt				U	ND	mg/L				PRB	09/27/24 11:16
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				J	0.000211	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205855319 685645001 MS											
Antimony	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND		0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640		0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0466	mg/L		93.2	(75%-125%)		
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)	PRB	09/27/24 11:25
Iron	2.00		118		120	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)		
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)		
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)		
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)		
QC1205855320 685645001 MSD											
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24 11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)		
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)		
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)		
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)		
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)		

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)	PRB	09/27/24 11:28
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)		
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)		
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)		
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)		
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)		
QC1205855321 685645001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24 11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			84.8		16.7	ug/L	1.6		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/27/24 11:34
Iron		23700		4810	ug/L	1.69		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.394	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury 0.00200				0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59
QC1205857287 685645001 MS										
Mercury 0.00200	U	ND		0.00184	mg/L		92.2	(75%-125%)		09/19/24 12:09
QC1205857288 685645001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/19/24 12:10

QC Summary

Workorder: **685645**

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

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

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

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
685645012	MCM-INW-01
685645014	MCM-PT-01
685645015	MCM-PT-02
685645016	MCM-PT-03
685645017	MCM-DR-01
685645018	MCM-DR-02
685645019	MCM-DR-03
685645020	MCM-AP1-FD-01
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(MCM-INW-01L) Serial Dilution (SD)
1205855319	685645001(MCM-INW-01S) Matrix Spike (MS)
1205855320	685645001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03), 685645009 (MCM-AP1-FD-01), 685645012 (MCM-INW-01), 685645013 (MCM-MCM-06), 685645014 (MCM-PT-01), 685645015 (MCM-PT-02), 685645016 (MCM-PT-03), 685645017 (MCM-DR-01), 685645018 (MCM-DR-02), 685645019 (MCM-DR-03) and 685645020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645009 (MCM-AP1-FD-01), 685645012 (MCM-INW-01), 685645014 (MCM-PT-01), 685645015 (MCM-PT-02), 685645017 (MCM-DR-01) and 685645020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	685645									
	001	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**	**014**
Antimony	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Arsenic	5X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Barium	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	5X	1X	5X	1X
Lead	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Selenium	5X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Thallium	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X

Analyte	685645					
	015	**016**	**017**	**018**	**019**	**020**
Antimony	5X	1X	5X	1X	1X	5X
Barium	1X	1X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	5X	1X	1X	5X
Iron	1X	1X	1X	1X	5X	1X
Lead	1X	1X	5X	1X	1X	1X
Molybdenum	5X	1X	5X	1X	1X	5X
Thallium	1X	1X	5X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

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

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
685645012	MCM-INW-01
685645014	MCM-PT-01
685645015	MCM-PT-02
685645016	MCM-PT-03
685645017	MCM-DR-01
685645018	MCM-DR-02
685645019	MCM-DR-03
685645020	MCM-AP1-FD-01
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(MCM-INW-01L) Serial Dilution (SD)
1205857286	685645001(MCM-INW-01D) Sample Duplicate (DUP)
1205857287	685645001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672211

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

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645002	MCM-MCM-06

685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
1205854699	Method Blank (MB)
1205854700	Laboratory Control Sample (LCS)
1205854701	685522001(MCM-MCM-04) Sample Duplicate (DUP)
1205854702	685522001(MCM-MCM-04) Post Spike (PS)
1205854703	685645007(MCM-DR-02) Sample Duplicate (DUP)
1205854704	685645007(MCM-DR-02) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205854701 (MCM-MCM-04DUP) and 1205854702 (MCM-MCM-04PS) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685645001 (MCM-INW-01), 685645002 (MCM-MCM-06), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03) and 685645009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685645001 (MCM-INW-01), 685645002 (MCM-MCM-06), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03) and 685645009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685645								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	20X	20X	20X	20X	20X	20X	10X	20X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 685645
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Swert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Page 54 of 56 685645

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-INW-01	09-12-24	1210	G	Y*	WG			3	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-PT-01	09-12-24	1157	G	Y*	WG			3	X	X	X		
MCM-PT-02	09-12-24	1431	G	Y*	WG			3	X	X	X		
MCM-PT-03	09-12-24	1350	G	Y*	WG			3	X	X	X		
MCM-DR-01	09-12-24	1324	G	Y*	WG			3	X	X	X		
MCM-DR-02	09-12-24	1508	G	Y*	WG			3	X	X	X		
MCM-DR-03	09-12-24	1047	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	09-12-24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	09-12-24	1310	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1640		9/13/24	940
2				2		
3				3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0 °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
MCM-AP1-EB-01	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1	9/13/24	940
2			2		
3			3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Pg 38 of 87 ID: 168645

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 685645

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 9/13/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2754 8412 3180

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#: [redacted] If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0C
4	~~Daily check performed and passed on IR temperature gun?~~	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials KM Date 9/16/24 Page 1 of 1

List of current GEL Certifications as of 27 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685517

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The sample ID "MCM-MCM-06" was removed from the original report to be included on separate reports 685517 and 685519. The client provided a revised chain of custody via email. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685517001	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30
685517002	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30

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.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	14-SEP-2024
SW846 3005A	16-SEP-2024
SW846 7470A Prep	13-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-SEP-2024
EPA 300.0	14-SEP-2024
SM 2540C	19-SEP-2024

SW846	3005A/6020B	25-SEP-2024
SW846	3005A/6020B	27-SEP-2024
SW846	7470A	16-SEP-2024
SW846	7470A	19-SEP-2024

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. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685517 GEL Work Order: 685517

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

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.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3240	33.5	100	mg/L		500	CH6	09/14/24	1539	2672160	1
Fluoride	J	0.392	0.132	0.400	mg/L		4	CH6	09/14/24	1508	2672160	2
Sulfate		271	26.6	80.0	mg/L		200	CH6	09/13/24	2205	2672160	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1301	2671700	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.745	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0145	2671581	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0054	2671581	6
Arsenic		0.107	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0727	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0435	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0550	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000895	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5340	23.8	100	mg/L			KLP1	09/19/24	1453	2674517	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

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	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1235	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1255	2672440	2
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0776	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0445	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0518	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000486	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00172	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.680	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1311	2672440	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: September 30, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2672160												
QC1205854609 685518002 DUP												
Chloride			16.4		16.4	mg/L	0.0292		(0%-20%)	CH6	09/14/24	17:11
Fluoride		U	ND	U	ND	mg/L	N/A				09/14/24	00:39
Sulfate			26.2		26.2	mg/L	0.026		(0%-20%)		09/14/24	17:11
QC1205854608 LCS												
Chloride	5.00				4.73	mg/L		94.5	(90%-110%)		09/13/24	19:06
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)			
QC1205854607 MB												
Chloride				U	ND	mg/L					09/13/24	18:36
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205854610 685518002 PS												
Chloride	5.00		8.22		13.9	mg/L		113*	(90%-110%)		09/14/24	17:42
Fluoride	2.50	U	ND		2.51	mg/L		101	(90%-110%)		09/14/24	01:10
Sulfate	10.0		13.1		23.4	mg/L		103	(90%-110%)		09/14/24	17:42

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
QC1205853454 LCS										
Antimony	0.0500			0.0495	mg/L		98.9	(80%-120%)	PRB	09/25/24 00:50
Arsenic	0.0500			0.0490	mg/L		98	(80%-120%)		
Barium	0.0500			0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0568	mg/L		114	(80%-120%)		
Boron	0.100			0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Iron	2.00			1.99	mg/L		99.6	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0514	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0488	mg/L		97.7	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
QC1205853453 MB										
Antimony			U	ND	mg/L				PRB	09/25/24 00:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
QC1205853455 685517001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)	PRB	09/25/24 00:57
Arsenic	0.0500		0.107		0.152	mg/L		90.1	(75%-125%)		
Barium	0.0500		0.0727		0.121	mg/L		96.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Boron	0.100		0.745		0.804	mg/L		N/A	(75%-125%)		09/25/24 01:56
Cadmium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/25/24 00:57
Chromium	0.0500	U	ND		0.0470	mg/L		92.8	(75%-125%)		
Cobalt	0.0500	U	ND		0.0445	mg/L		88.8	(75%-125%)		
Iron	2.00	J	0.0435		1.85	mg/L		90.3	(75%-125%)		
Lead	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
Lithium	0.0500		0.0550		0.108	mg/L		106	(75%-125%)		
Molybdenum	0.0500	J	0.000895		0.0541	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0196	mg/L		37.7*	(75%-125%)		
Thallium	0.0500	U	ND		0.0432	mg/L		86.2	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
QC1205853456 685517001 MSD											
Antimony	0.0500	U	ND		0.0472	mg/L	1.65	93.7	(0%-20%)	PRB	09/25/24 01:01
Arsenic	0.0500		0.107		0.154	mg/L	1.3	94.1	(0%-20%)		
Barium	0.0500		0.0727		0.120	mg/L	1.05	94.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0488	mg/L	3.74	97.5	(0%-20%)		
Boron	0.100		0.745		0.837	mg/L	4.04	N/A	(0%-20%)		09/25/24 01:59
Cadmium	0.0500	U	ND		0.0431	mg/L	1.76	86.2	(0%-20%)		09/25/24 01:01
Chromium	0.0500	U	ND		0.0470	mg/L	0.113	92.9	(0%-20%)		
Cobalt	0.0500	U	ND		0.0444	mg/L	0.374	88.5	(0%-20%)		
Iron	2.00	J	0.0435		1.86	mg/L	0.377	90.7	(0%-20%)		
Lead	0.0500	U	ND		0.0441	mg/L	2.29	88.1	(0%-20%)		
Lithium	0.0500		0.0550		0.103	mg/L	4.68	96.4	(0%-20%)		
Molybdenum	0.0500	J	0.000895		0.0537	mg/L	0.663	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0203	mg/L	3.4	39*	(0%-20%)		
Thallium	0.0500	U	ND		0.0427	mg/L	1.09	85.3	(0%-20%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2671581												
QC1205865427 685517001 PS												
Selenium	50.0	U	ND		48.3	ug/L		95	(75%-125%)	PRB	09/25/24	01:05
QC1205853457 685517001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24	01:08
Arsenic			107		24.5	ug/L	14.6		(0%-20%)			
Barium			72.7		15.7	ug/L	8.04		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			74.5		15.9	ug/L	6.47		(0%-20%)		09/25/24	02:03
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24	01:08
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron		J	43.5	U	ND	ug/L	N/A		(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium			55.0		10.4	ug/L	5.23		(0%-20%)			
Molybdenum		J	0.895	U	ND	ug/L	N/A		(0%-20%)			
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/25/24 01:08
Batch 2672440										
QC1205855318 LCS										
Antimony	0.0500			0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500			0.0480	mg/L		96	(80%-120%)		
Barium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500			0.0552	mg/L		110	(80%-120%)		
Boron	0.100			0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500			0.0486	mg/L		97.2	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Iron	2.00			1.93	mg/L		96.6	(80%-120%)		
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2672440											
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)	PRB	09/27/24	11:19
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)			
QC1205855317 MB											
Antimony			U	ND	mg/L					09/27/24	11:16
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			J	0.000211	mg/L						

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Selenium				U	ND	mg/L				PRB	09/27/24 11:16
Thallium				U	ND	mg/L					
QC1205855319 685645001 MS											
Antimony	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND		0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640		0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0466	mg/L		93.2	(75%-125%)		
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)		
Iron	2.00		118		120	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)		
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)	PRB	09/27/24	11:25
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)			
QC1205855320 685645001 MSD												
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24	11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)			
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)			
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)			
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)			
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)			
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)			
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)			
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)	PRB	09/27/24	11:28
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)			
QC1205855321 685645001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24	11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			84.8		16.7	ug/L	1.6		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron			23700		4810	ug/L	1.69		(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum		J	0.394	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/27/24 11:34
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2671700										
QC1205853724 LCS										
Mercury 0.00200				0.00202	mg/L		101	(80%-120%)	JP2	09/16/24 12:42
QC1205853723 MB										
Mercury			U	ND	mg/L					09/16/24 12:40
QC1205853725 685379001 MS										
Mercury 0.0200	U	ND		0.0203	mg/L		101	(75%-125%)		09/16/24 12:48
QC1205853726 685379001 MSD										
Mercury 0.0200	U	ND		0.0202	mg/L	0.346	101	(0%-20%)		09/16/24 12:50
QC1205853727 685379001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/16/24 12:51
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury 0.00200				0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2673473										
QC1205857287 685645001 MS										
Mercury	0.00200	U	ND		0.00184	mg/L		92.2	(75%-125%)	JP2 09/19/24 12:09
QC1205857288 685645001 SDILT										
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	09/19/24 12:10
Solids Analysis										
Batch 2674517										
QC1205859366 685705001 DUP										
Total Dissolved Solids		516		516	mg/L	0		(0%-5%)	KLP1	09/19/24 14:53
QC1205859365 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/19/24 14:53
QC1205859364 MB										
Total Dissolved Solids			U	ND	mg/L					09/19/24 14:53

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

QC Summary

Workorder: **685517**

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

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671579

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853453	Method Blank (MB)**ICP-MS**
1205853454	Laboratory Control Sample (LCS)
1205853457	685517001(MCM-MCM-06L) Serial Dilution (SD)
1205853455	685517001(MCM-MCM-06S) Matrix Spike (MS)
1205853456	685517001(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205865427	685517001(MCM-MCM-06PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205853455 (MCM-MCM-06MS)	Selenium	37.7* (75%-125%)
1205853456 (MCM-MCM-06MSD)	Selenium	39* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517001 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**685517**
	001
Boron	10X
Calcium	10X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

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

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(NonSDGL) Serial Dilution (SD)
1205855319	685645001(NonSDGS) Matrix Spike (MS)
1205855320	685645001(NonSDGSD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517002 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	685517
	002
Boron	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2671700

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2671695

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853723	Method Blank (MB)**CVAA**
1205853724	Laboratory Control Sample (LCS)
1205853727	685379001(NonSDGL) Serial Dilution (SD)
1205853725	685379001(NonSDGS) Matrix Spike (MS)
1205853726	685379001(NonSDGSD) Matrix Spike Duplicate (MSD)

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

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205853725 (Non SDG 685379001MS), 1205853726 (Non SDG 685379001MSD) and 1205853727 (Non SDG 685379001SDILT).

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

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

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(NonSDGL) Serial Dilution (SD)
1205857286	685645001(NonSDGD) Sample Duplicate (DUP)
1205857287	685645001(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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672160

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205854607	Method Blank (MB)
1205854608	Laboratory Control Sample (LCS)
1205854609	685518002(MCM-MCM-02) Sample Duplicate (DUP)
1205854610	685518002(MCM-MCM-02) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205854610 (MCM-MCM-02PS)	113* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205854609 (MCM-MCM-02DUP), 1205854610 (MCM-MCM-02PS) and 685517001 (MCM-MCM-06) were diluted because target analyte concentrations exceeded the calibration range. Sample 685517001 (MCM-MCM-06) was diluted to minimize matrix effects on instrument performance. Sample 685517001 (MCM-MCM-06) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**685517001**
Chloride	500X
Fluoride	4X
Sulfate	200X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2674517

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205859364	Method Blank (MB)
1205859365	Laboratory Control Sample (LCS)
1205859366	685705001(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 685517001 (MCM-MCM-06).

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
~~MCM-INW-01~~	09-12-24	1210	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X		
~~MCM-PT-01~~	09-12-24	1157	G	Y*	WG			3	X	X	X		
~~MCM-PT-02~~	09-12-24	1431	G	Y*	WG			3	X	X	X		
~~MCM-PT-03~~	09-12-24	1350	G	Y*	WG			3	X	X	X		
~~MCM-DR-01~~	09-12-24	1324	G	Y*	WG			3	X	X	X		
~~MCM-DR-02~~	09-12-24	1508	G	Y*	WG			3	X	X	X		
~~MCM-DR-03~~	09-12-24	1047	G	Y*	WG			3	X	X	X		
~~MCM-AP1-FD-01~~	09-12-24	---	FD	Y*	WG			3	X	X	X		
~~MCM-AP1-FB-01~~	09-12-24	1310	FB	N	WQ			2	X		X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number** = Client Determined

2.) **QC Codes: N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-AP1-EB-01~~	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number = Client Determined**

2.) **QC Codes: N = Normal Sample, TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered: For liquid matrices, indicate with a - Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 123765S7

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples**~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Page 31 of 34 SDG: 668517

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	9/12/24	1430	[signature]	9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*.~~

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X							Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X							
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~***Dissolved Fe, Mn are the only Field Filterd Samples***~~

Page 32 of 45
DG665517

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHEM 5 - 24° RCHEM 7 - 20° RCHEM 2 - 1° 4 - 2° 6 - 23° RCHEM

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 RCHEM TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 4-Week Sampling September 2024
Work Order: 686583

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. One of the shipping containers was not sealed. Dissolved metals including mercury is reported in this data package. All other analyses requested on the chain of custody were reported under GEL 686578. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
686583001	MCM-INW-01	Ground Water	09/18/24 12:22	09/19/24 09:40
686583002	MCM-MCM-06	Ground Water	09/18/24 11:56	09/19/24 09:40
686583003	MCM-PT-01	Ground Water	09/18/24 10:02	09/19/24 09:40
686583004	MCM-PT-02	Ground Water	09/18/24 15:37	09/19/24 09:40
686583005	MCM-PT-03	Ground Water	09/18/24 15:50	09/19/24 09:40
686583006	MCM-DR-01	Ground Water	09/18/24 11:07	09/19/24 09:40
686583007	MCM-DR-02	Ground Water	09/18/24 09:58	09/19/24 09:40
686583008	MCM-DR-03	Ground Water	09/18/24 10:35	09/19/24 09:40
686583009	MCM-AP1-FD-01	Ground Water	09/18/24 12:00	09/19/24 09:40

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.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	03-OCT-2024

SW846 3005A	24-SEP-2024
SW846 7470A Prep	23-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	03-OCT-2024
SW846 3005A/6020B	04-OCT-2024
SW846 7470A	24-SEP-2024

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. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 686583 GEL Work Order: 686583

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686583001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 12:22		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1404	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Sodium		3270	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1354	2675662	2
Iron		68.0	0.165	0.500	mg/L	1.00	5	RM4	10/04/24	1053	2682375	3
Arsenic	U	ND	0.0200	0.0500	mg/L	1.00	10	BCD1	10/03/24	1446	2675662	4
Calcium		257	0.800	2.00	mg/L	1.00	10					
Magnesium		347	0.100	0.300	mg/L	1.00	10					
Selenium	U	ND	0.0150	0.0500	mg/L	1.00	10					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1536	2675662	5
Barium	J	0.591	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.453	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.131	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		100	0.400	1.50	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686583001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686583002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:56		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1405	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1306	2675662	2
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.152	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1556	2675662	3
Arsenic		0.118	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0806	0.00335	2.00	mg/L	1.00	5					
Boron		0.750	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		145	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		86.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1135	2682375	4
Sodium		1740	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1411	2675662	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1003	2675662	6
Lithium		0.0561	0.00300	0.0400	mg/L	1.00	1					
Magnesium		250	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1506	2675662	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686583002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

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: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686583003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1407	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Iron	J	0.0711	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1109	2682375	2
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1559	2675662	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.726	0.00335	2.00	mg/L	1.00	5					
Boron		0.719	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		192	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Manganese		0.310	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		99.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2370	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1414	2675662	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1004	2675662	5
Lithium	J	0.0313	0.00300	0.0400	mg/L	1.00	1					
Magnesium		303	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1509	2675662	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686583003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686583004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 15:37		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1409	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		275	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1512	2675662	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1005	2675662	3
Lithium	J	0.0197	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1602	2675662	4
Arsenic	J	0.0110	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.621	0.00335	2.00	mg/L	1.00	5					
Boron		0.597	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		181	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		83.2	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2240	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1417	2675662	5
Iron		3.50	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1111	2682375	6
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1312	2675662	7
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.264	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686583004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686583005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 15:50		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1410	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1605	2675662	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.358	0.00335	2.00	mg/L	1.00	5					
Boron		0.637	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		173	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		84.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Magnesium		258	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1514	2675662	3
Iron		2.05	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1113	2682375	4
Sodium		2320	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1420	2675662	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1006	2675662	6
Lithium	J	0.0296	0.00300	0.0400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1315	2675662	7
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.0932	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686583005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686583006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:07		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1412	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		318	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1517	2675662	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1007	2675662	3
Lithium		0.0415	0.00300	0.0400	mg/L	1.00	1					
Sodium		2320	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1423	2675662	4
Iron		0.132	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1115	2682375	5
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1607	2675662	6
Arsenic	J	0.0160	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.387	0.00335	2.00	mg/L	1.00	5					
Boron		0.676	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		182	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		92.2	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1318	2675662	7
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.196	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686583006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686583007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 09:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1413	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Iron		0.142	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1117	2682375	2
Sodium		1640	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1425	2675662	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1008	2675662	4
Lithium		0.0503	0.00300	0.0400	mg/L	1.00	1					
Arsenic		0.0652	0.0100	0.0250	mg/L	1.00	5	BCD1	10/03/24	1610	2675662	5
Boron		0.910	0.0260	0.0750	mg/L	1.00	5					
Calcium		113	0.400	1.00	mg/L	1.00	5					
Magnesium		197	0.0500	0.150	mg/L	1.00	5					
Potassium		77.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	BCD1	10/03/24	1321	2675662	6
Barium	J	0.0697	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0925	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000557	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686583007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686583008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:35		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1419	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Sodium		1200	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1428	2675662	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	BCD1	10/03/24	1613	2675662	3
Boron		0.861	0.0260	0.0750	mg/L	1.00	5					
Calcium		96.4	0.400	1.00	mg/L	1.00	5					
Magnesium		115	0.0500	0.150	mg/L	1.00	5					
Potassium		52.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	BCD1	10/03/24	1323	2675662	4
Barium	J	0.0340	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.679	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000834	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		155	0.165	0.500	mg/L	1.00	5	RM4	10/04/24	1133	2682375	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1009	2675662	6
Lithium		0.0479	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686583008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686583009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 12:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1420	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1616	2675662	2
Arsenic	J	0.0102	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.587	0.00335	2.00	mg/L	1.00	5					
Boron		0.567	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		175	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		81.4	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		3.49	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1121	2682375	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1010	2675662	4
Lithium	J	0.0184	0.00300	0.0400	mg/L	1.00	1					
Sodium		2100	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1431	2675662	5
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1326	2675662	6
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.254	0.00100	0.00500	mg/L	1.00	1					
Magnesium		264	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1526	2675662	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686583009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2675662											
QC1205861593 LCS											
Antimony	0.0500			0.0507	mg/L		101	(80%-120%)	BCD1	10/03/24	13:51
Arsenic	0.0500			0.0508	mg/L		102	(80%-120%)			
Barium	0.0500			0.0524	mg/L		105	(80%-120%)			
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)			
Boron	0.100			0.120	mg/L		120	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			2.28	mg/L		114	(80%-120%)			
Chromium	0.0500			0.0502	mg/L		100	(80%-120%)			
Cobalt	0.0500			0.0506	mg/L		101	(80%-120%)			
Lead	0.0500			0.0491	mg/L		98.2	(80%-120%)			
Lithium	0.0500			0.0534	mg/L		107	(80%-120%)			
Magnesium	2.00			2.28	mg/L		114	(80%-120%)			

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675662										
Manganese	0.0500			0.0527	mg/L		105	(80%-120%)	BCD1	10/03/24 13:51
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Potassium	2.00			2.29	mg/L		115	(80%-120%)		
Selenium	0.0500			0.0548	mg/L		110	(80%-120%)		
Sodium	2.00			2.25	mg/L		113	(80%-120%)		
Thallium	0.0500			0.0473	mg/L		94.5	(80%-120%)		
QC1205861592 MB										
Antimony			U	ND	mg/L					10/03/24 13:48
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675662										
Cobalt			U	ND	mg/L				BCD1	10/03/24 13:48
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			J	0.00212	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205861594 686583001 MS										
Antimony	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)		10/03/24 15:39
Arsenic	0.0500	U	ND	0.0523	mg/L		102	(75%-125%)		10/03/24 14:49
Barium	0.0500	J	0.591	0.634	mg/L		N/A	(75%-125%)		10/03/24 15:39
Beryllium	0.0500	U	ND	0.0457	mg/L		91.5	(75%-125%)		

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
Boron	0.100		0.453		0.540	mg/L		N/A	(75%-125%)	BCD1	10/03/24 15:39
Cadmium	0.0500	U	ND		0.0465	mg/L		93.1	(75%-125%)		
Calcium	2.00		257		253	mg/L		N/A	(75%-125%)		10/03/24 14:49
Chromium	0.0500	U	ND		0.0473	mg/L		94.4	(75%-125%)		10/03/24 15:39
Cobalt	0.0500	U	ND		0.0463	mg/L		92.5	(75%-125%)		
Lead	0.0500	U	ND		0.0437	mg/L		87.3	(75%-125%)		
Lithium	0.0500	U	ND		0.0596	mg/L		99.7	(75%-125%)		
Magnesium	2.00		347		342	mg/L		N/A	(75%-125%)		10/03/24 14:49
Manganese	0.0500		0.131		0.177	mg/L		92.1	(75%-125%)		10/03/24 15:39
Molybdenum	0.0500	U	ND		0.0535	mg/L		106	(75%-125%)		
Potassium	2.00		100		101	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0555	mg/L		103	(75%-125%)		10/03/24 14:49
Sodium	2.00		3270		3250	mg/L		N/A	(75%-125%)		10/03/24 13:57
Thallium	0.0500	U	ND		0.0429	mg/L		85.9	(75%-125%)		10/03/24 15:39

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
QC1205861595 686583001 MSD											
Antimony	0.0500	U	ND		0.0505	mg/L	0.347	101	(0%-20%)	BCD1	10/03/24 15:42
Arsenic	0.0500	U	ND		0.0521	mg/L	0.345	102	(0%-20%)		10/03/24 14:52
Barium	0.0500	J	0.591		0.622	mg/L	1.89	N/A	(0%-20%)		10/03/24 15:42
Beryllium	0.0500	U	ND		0.0453	mg/L	0.989	90.6	(0%-20%)		
Boron	0.100		0.453		0.540	mg/L	0.0305	N/A	(0%-20%)		
Cadmium	0.0500	U	ND		0.0457	mg/L	1.76	91.4	(0%-20%)		
Calcium	2.00		257		250	mg/L	1.12	N/A	(0%-20%)		10/03/24 14:52
Chromium	0.0500	U	ND		0.0480	mg/L	1.51	95.8	(0%-20%)		10/03/24 15:42
Cobalt	0.0500	U	ND		0.0463	mg/L	0.0972	92.6	(0%-20%)		
Lead	0.0500	U	ND		0.0434	mg/L	0.62	86.8	(0%-20%)		
Lithium	0.0500	U	ND		0.0593	mg/L	0.454	99.2	(0%-20%)		
Magnesium	2.00		347		341	mg/L	0.279	N/A	(0%-20%)		10/03/24 14:52
Manganese	0.0500		0.131		0.175	mg/L	1	88.6	(0%-20%)		10/03/24 15:42
Molybdenum	0.0500	U	ND		0.0525	mg/L	2.03	104	(0%-20%)		

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
Potassium	2.00		100		99.9	mg/L	0.933	N/A	(0%-20%)	BCD1	10/03/24 15:42
Selenium	0.0500	U	ND		0.0581	mg/L	4.7	109	(0%-20%)		10/03/24 14:52
Sodium	2.00		3270		3200	mg/L	1.55	N/A	(0%-20%)		10/03/24 14:00
Thallium	0.0500	U	ND		0.0428	mg/L	0.409	85.5	(0%-20%)		10/03/24 15:42
QC1205861596 686583001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 15:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 14:57
Barium		J	118	J	23.6	ug/L	.293		(0%-20%)		10/03/24 15:47
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			90.5		20.9	ug/L	15.3		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			25700		5100	ug/L	.8		(0%-20%)		10/03/24 14:57
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 15:47
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)	BCD1	10/03/24 15:47
Magnesium			34700		7140	ug/L	2.96		(0%-20%)		10/03/24 14:57
Manganese			26.2		5.38	ug/L	2.51		(0%-20%)		10/03/24 15:47
Molybdenum		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium			20000		4020	ug/L	.593		(0%-20%)		
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 14:57
Sodium			32700		6650	ug/L	1.61		(0%-20%)		10/03/24 14:03
Thallium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 15:47
Batch 2682375											
QC1205861593 LCS											
Iron	2.00				2.00	mg/L		100	(80%-120%)	RM4	10/04/24 10:51
QC1205861592 MB											
Iron				U	ND	mg/L					10/04/24 10:49
QC1205876028 686583002 MS											
Iron	2.00	U	ND		1.71	mg/L		84.1	(75%-125%)		10/04/24 11:37
QC1205876029 686583002 MSD											
Iron	2.00	U	ND		1.71	mg/L	0.146	84.2	(0%-20%)		10/04/24 11:39

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682375										
QC1205876030 686583002 SDILT										
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)	RM4	10/04/24 11:43
Metals Analysis-Mercury										
Batch 2675717										
QC1205861724 686578001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/24/24 13:34
QC1205861723 LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		09/24/24 13:31
QC1205861722 MB										
Mercury			U	ND	mg/L					09/24/24 13:29
QC1205861725 686578001 MS										
Mercury	0.00200	U	ND	0.00180	mg/L		89.8	(75%-125%)		09/24/24 13:39
QC1205861726 686578001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/24/24 13:40

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ 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.

QC Summary

Workorder: **686583**

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

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

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.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 686583

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2675662

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2675661

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

GEL Sample ID#	Client Sample Identification
686583001	MCM-INW-01
686583002	MCM-MCM-06
686583003	MCM-PT-01
686583004	MCM-PT-02
686583005	MCM-PT-03
686583006	MCM-DR-01
686583007	MCM-DR-02
686583008	MCM-DR-03
686583009	MCM-AP1-FD-01
1205861592	Method Blank (MB)**ICP-MS**
1205861593	Laboratory Control Sample (LCS)
1205861596	686583001(MCM-INW-01L) Serial Dilution (SD)
1205861594	686583001(MCM-INW-01S) Matrix Spike (MS)
1205861595	686583001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686583001 (MCM-INW-01), 686583002 (MCM-MCM-06), 686583003 (MCM-PT-01), 686583004 (MCM-PT-02), 686583005 (MCM-PT-03), 686583006 (MCM-DR-01), 686583007 (MCM-DR-02), 686583008 (MCM-DR-03) and 686583009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the

SOP, samples 686583001 (MCM-INW-01), 686583002 (MCM-MCM-06), 686583003 (MCM-PT-01), 686583004 (MCM-PT-02), 686583005 (MCM-PT-03), 686583006 (MCM-DR-01), 686583007 (MCM-DR-02), 686583008 (MCM-DR-03) and 686583009 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	686583								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	5X	5X	5X	5X	5X	1X	1X	5X
Arsenic	10X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	5X	5X	5X	1X	1X	5X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	1X	5X
Calcium	10X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	5X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	5X	1X	1X	1X	1X	1X	1X
Lead	5X	5X	5X	5X	5X	5X	1X	1X	5X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	10X	10X	10X	10X	10X	10X	5X	5X	10X
Manganese	5X	1X	5X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	1X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	10X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X
Thallium	5X	5X	5X	5X	5X	5X	1X	1X	5X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2682375

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2682374

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

GEL Sample ID#	Client Sample Identification
686583001	MCM-INW-01
686583002	MCM-MCM-06
686583003	MCM-PT-01
686583004	MCM-PT-02
686583005	MCM-PT-03
686583006	MCM-DR-01
686583007	MCM-DR-02
686583008	MCM-DR-03
686583009	MCM-AP1-FD-01
1205861592	Method Blank (MB)**ICP-MS**

1205861593	Laboratory Control Sample (LCS)
1205876030	686583002(MCM-MCM-06L) Serial Dilution (SD)
1205876028	686583002(MCM-MCM-06S) Matrix Spike (MS)
1205876029	686583002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686583001 (MCM-INW-01) and 686583008 (MCM-DR-03) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	686583	
	001	008
Iron	5X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2675717

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2675714

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

GEL Sample ID#	Client Sample Identification
686583001	MCM-INW-01
686583002	MCM-MCM-06
686583003	MCM-PT-01
686583004	MCM-PT-02
686583005	MCM-PT-03
686583006	MCM-DR-01
686583007	MCM-DR-02
686583008	MCM-DR-03
686583009	MCM-AP1-FD-01
1205861722	Method Blank (MB)**CVAA**

1205861723	Laboratory Control Sample (LCS)
1205861726	686578001(MCM-INW-01L) Serial Dilution (SD)
1205861724	686578001(MCM-INW-01D) Sample Duplicate (DUP)
1205861725	686578001(MCM-INW-01S) 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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 686578 686583

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page 36 of 41 SDG: 686583

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	9/17/24	1222	G	Y*	WG			5	X	X	X	X	X	Metal List - As*, Sb*, Ba*, Be*, B*, Cd*, Ca*, Cr*, Co*, Fe*, Pb*, Li*, Mg*, Mn*, Hg*, Mo*, K*, Se*, Na*, Tl*
MCM-MCM-06	9/17/24	1156	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-01	9/17/24	1002	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	9/17/24	1537	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	9/17/24	1550	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	9/18/24	1107	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	9/18/24	0958	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	9/17/24	1035	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	9/17/24	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	9/18/24	1254	FB	N	WQ			5	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/18/24	1420	Fed Ex	9/18/24	
2					9/19/24	940
3						

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240916** 237554

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No **Cooler Temp:** 0 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead
Hg= Mercury
Se= Selenium
Ag= Silver
MR= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	9/18/24	1308	EB	N	WQ			5	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1	9/19/24	948
2			2		
3			3		

TAT Requested: **Normal:** ___X__ **Rush:**_____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240916** 237554

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 39 of 41 SDG: 660583

686578
686583

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/19/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2724 5025 4381

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 / uR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 0 c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			HB 9/23/24 Circle Applicable: No container count on COC (Other (describe)) ~~Missing cooler~~ HB 9/23/24
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 KM Date 9/20/24 Page 1 of 1

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/20/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2796 8025 4320

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) cooler not sealed when arrived
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt received in cooler on 9/19/24
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 melted ice TEMP: 1c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/24/24
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe) ~~missing cooler from 9/19/24~~ HB 9/24/24
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):

~~Missing containers for MEM-AP1-EB-01 and FB-01 (1 dissolved metals per ID)~~
HB 9/23/24

PM (or PMA) review: Initials HB Date SEP 23 2024 Page 1 of 1

Outlook

Receipt Notification- Plant McManus 686578 & 686583

From Hannah Bowden <Hannah.Bowden@gel.com>
Date Tue 9/24/2024 9:09 AM
To KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>; MJSMILLE@SOUTHERNCO.COM <MJSMILLE@SOUTHERNCO.COM>; NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>; kathryn.farris@arcadis.com <kathryn.farris@arcadis.com>
Cc Team Pinnick <Team.Pinnick@gel.com>

1 attachments (2 MB)
686578coc.pdf;

Good morning,

Notifying you that one of the shipping coolers for samples received, 9/19/24 and 9/20/24, was not sealed and did not contain a chain of custody. The chain of custody was received in the first cooler that was delivered on 9/19/24. There is no response needed! Please see the attached COC for reference..

Hannah Bowden
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407 |
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

November 11, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 4-Week Sampling September 2024
Work Order: 686578

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 686578 in the left-hand footer of the data report. Revision 01 corrects the collection dates for GEL sample IDs 686578006 and 686578007 from 9/17/24 to 9/18/24.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. One of the shipping containers was not sealed. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
686578001	MCM-INW-01	Ground Water	09/17/24 12:22	09/19/24 09:40
686578002	MCM-MCM-06	Ground Water	09/17/24 11:56	09/19/24 09:40
686578003	MCM-PT-01	Ground Water	09/17/24 10:02	09/19/24 09:40
686578004	MCM-PT-02	Ground Water	09/17/24 15:37	09/19/24 09:40
686578005	MCM-PT-03	Ground Water	09/17/24 15:50	09/19/24 09:40
686578006	MCM-DR-01	Ground Water	09/18/24 11:07	09/19/24 09:40
686578007	MCM-DR-02	Ground Water	09/18/24 09:58	09/19/24 09:40
686578008	MCM-DR-03	Ground Water	09/17/24 10:35	09/19/24 09:40
686578009	MCM-AP1-FD-01	Ground Water	09/17/24 12:00	09/19/24 09:40
686578010	MCM-AP1-FB-01	Ground Water	09/18/24 12:58	09/19/24 09:40
686578011	MCM-AP1-EB-01	Ground Water	09/18/24 13:08	09/19/24 09:40

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.

Prep Methods and Prep Dates

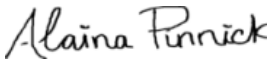
Method	Run Date ID
SW846 3005A	21-SEP-2024
SW846 7470A Prep	23-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-SEP-2024
EPA 300.0	24-SEP-2024
SM 2320B	20-SEP-2024
SM 2540C	24-SEP-2024
SM 2540C	25-SEP-2024
SW846 3005A/6020B	01-OCT-2024
SW846 3005A/6020B	02-OCT-2024
SW846 3005A/6020B	03-OCT-2024
SW846 7470A	24-SEP-2024

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. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 686578 GEL Work Order: 686578

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686578001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 12:22		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5520	67.0	200	mg/L		1000	CWW	09/23/24	1935	2676424	1
Sulfate		1010	133	400	mg/L		1000					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/24/24	1317	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1332	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0253	2675467	4
Arsenic	J	0.00235	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.539	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.00988	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.119	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.00103	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		320	0.100	0.300	mg/L	1.00	10	PRB	10/03/24	0311	2675467	5
Boron		0.449	0.0260	0.0750	mg/L	1.00	5	PRB	10/01/24	2350	2675467	6
Calcium		239	0.400	1.00	mg/L	1.00	5					
Iron		76.6	0.165	0.500	mg/L	1.00	5					
Potassium		88.2	0.400	1.50	mg/L	1.00	5					
Sodium		3140	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0333	2675467	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10900	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		135	0.725	2.00	mg/L			HH2	09/20/24	1221	2675517	9
Bicarbonate alkalinity (CaCO3)		135	0.725	2.00	mg/L							

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686578001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686578002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 11:56		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.594	0.330	1.00	mg/L		10	CWW	09/24/24	1628	2676424	1
Chloride		3080	33.5	100	mg/L		500	CWW	09/23/24	2111	2676424	2
Sulfate		296	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1344	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.759	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0030	2675467	4
Calcium		136	0.400	1.00	mg/L	1.00	5					
Magnesium		231	0.0500	0.150	mg/L	1.00	5					
Potassium		76.0	0.400	1.50	mg/L	1.00	5					
Sodium		1660	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0352	2675467	5
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0348	2675467	6
Arsenic		0.101	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0782	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0453	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0535	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.145	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000904	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6140	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		321	0.725	2.00	mg/L			HH2	09/20/24	1223	2675517	8
Bicarbonate alkalinity (CaCO3)		321	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686578002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686578003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 10:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4270	33.5	100	mg/L		500	CWW	09/23/24	2143	2676424	1
Sulfate		548	66.5	200	mg/L		500					
Fluoride	J	0.395	0.330	1.00	mg/L		10	CWW	09/24/24	1700	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1345	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0410	2675467	4
Arsenic	J	0.00991	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.684	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.320	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0299	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.279	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000643	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		283	0.100	0.300	mg/L	1.00	10	PRB	10/03/24	0355	2675467	5
Sodium		2270	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0359	2675467	6
Boron		0.726	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0034	2675467	7
Calcium		183	0.400	1.00	mg/L	1.00	5					
Potassium		85.9	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8460	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		229	0.725	2.00	mg/L			HH2	09/20/24	1228	2675517	9
Bicarbonate alkalinity (CaCO3)		229	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686578003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686578004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 15:37		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	09/24/24	1732	2676424	1
Chloride		3890	33.5	100	mg/L		500	CWW	09/23/24	2214	2676424	2
Sulfate		513	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1347	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		2100	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0425	2675467	4
Boron		0.582	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0037	2675467	5
Calcium		169	0.400	1.00	mg/L	1.00	5					
Magnesium		248	0.0500	0.150	mg/L	1.00	5					
Potassium		73.2	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0414	2675467	6
Arsenic		0.0120	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.578	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.62	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0195	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.248	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000804	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8000	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		209	0.725	2.00	mg/L			HH2	09/20/24	1232	2675517	8
Bicarbonate alkalinity (CaCO3)		209	0.725	2.00	mg/L							

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

Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686578004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686578005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 15:50		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.398	0.330	1.00	mg/L		10	CWW	09/24/24	1804	2676424	1
Chloride		3870	33.5	100	mg/L		500	CWW	09/23/24	2246	2676424	2
Sulfate		505	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1349	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		2150	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0428	2675467	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0417	2675467	5
Arsenic		0.0109	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.344	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.10	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0285	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0930	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000453	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00158	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.641	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0041	2675467	6
Calcium		160	0.400	1.00	mg/L	1.00	5					
Magnesium		229	0.0500	0.150	mg/L	1.00	5					
Potassium		72.1	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7530	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		210	0.725	2.00	mg/L			HH2	09/20/24	1239	2675517	8
Bicarbonate alkalinity (CaCO3)		210	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686578005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

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: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686578006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:07		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.409	0.330	1.00	mg/L		10	CWW	09/24/24	1835	2676424	1
Chloride		4190	33.5	100	mg/L		500	CWW	09/23/24	2318	2676424	2
Sulfate		498	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1350	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0421	2675467	4
Arsenic		0.0180	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.372	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.223	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0419	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.194	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000551	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.727	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0103	2675467	5
Calcium		175	0.400	1.00	mg/L	1.00	5					
Potassium		82.3	0.400	1.50	mg/L	1.00	5					
Sodium		2250	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0501	2675467	6
Magnesium		313	0.100	0.300	mg/L	1.00	10	PRB	10/03/24	0432	2675467	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8560	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		236	0.725	2.00	mg/L			HH2	09/20/24	1243	2675517	9
Bicarbonate alkalinity (CaCO3)		236	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686578006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686578007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 09:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2690	33.5	100	mg/L		500	CWW	09/23/24	2350	2676424	1
Sulfate		329	66.5	200	mg/L		500					
Fluoride	J	0.618	0.330	1.00	mg/L		10	CWW	09/24/24	1907	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1352	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0443	2675467	4
Arsenic		0.0652	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0692	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.32	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0489	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0951	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.00110	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.898	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0106	2675467	5
Calcium		105	0.400	1.00	mg/L	1.00	5					
Magnesium		173	0.0500	0.150	mg/L	1.00	5					
Potassium		67.3	0.400	1.50	mg/L	1.00	5					
Sodium		1640	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0505	2675467	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5730	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		306	0.725	2.00	mg/L			HH2	09/20/24	1247	2675517	8
Bicarbonate alkalinity (CaCO3)		306	0.725	2.00	mg/L							

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Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686578007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686578008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 10:35		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.03	0.330	1.00	mg/L		10	CWW	09/24/24	1939	2676424	1
Chloride		2070	33.5	100	mg/L		500	CWW	09/24/24	0157	2676424	2
Sulfate		338	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1354	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0447	2675467	4
Arsenic	J	0.00371	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0345	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0472	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.660	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000959	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.844	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0110	2675467	5
Calcium		89.1	0.400	1.00	mg/L	1.00	5					
Magnesium		101	0.0500	0.150	mg/L	1.00	5					
Potassium		45.6	0.400	1.50	mg/L	1.00	5					
Iron		165	3.30	10.0	mg/L	1.00	100	PRB	10/03/24	0508	2675467	6
Sodium		1130	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4350	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		180	0.725	2.00	mg/L			HH2	09/20/24	1252	2675517	8
Bicarbonate alkalinity (CaCO3)		180	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686578008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686578009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 12:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3880	33.5	100	mg/L		500	CWW	09/24/24	0229	2676424	1
Sulfate		534	66.5	200	mg/L		500					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	09/24/24	2011	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1359	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.579	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0132	2675467	4
Calcium		165	0.400	1.00	mg/L	1.00	5					
Magnesium		247	0.0500	0.150	mg/L	1.00	5					
Potassium		72.2	0.400	1.50	mg/L	1.00	5					
Sodium		2060	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0512	2675467	5
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0450	2675467	6
Arsenic		0.0125	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.581	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.64	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0199	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.256	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000798	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7640	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		211	0.725	2.00	mg/L			HH2	09/20/24	1255	2675517	8
Bicarbonate alkalinity (CaCO3)		211	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686578009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

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: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01124
Sample ID:	686578010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 12:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/24/24	0333	2676424	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1400	2675717	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0454	2675467	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00812	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	J	0.0135	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	J	0.168	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			HH2	09/20/24	1259	2675517	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01124
Sample ID:	686578010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01124
Sample ID:	686578011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 13:08		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/24/24	0405	2676424	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1402	2675717	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0458	2675467	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			HH2	09/20/24	1301	2675517	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01124
Sample ID:	686578011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: November 11, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2676424													
QC1205863548 686578001 DUP													
Chloride			5520		5520	mg/L	0.0109			(0%-20%)	CWW	09/23/24	20:07
Fluoride		U	ND	U	ND	mg/L	N/A					09/24/24	13:49
Sulfate			1010		934	mg/L	7.31	^		(+/-400)		09/23/24	20:07
QC1205863547 LCS													
Chloride	5.00				4.77	mg/L			95.3	(90%-110%)		09/23/24	18:00
Fluoride	2.50				2.43	mg/L			97.1	(90%-110%)			
Sulfate	10.0				9.71	mg/L			97.1	(90%-110%)			
QC1205863546 MB													
Chloride				U	ND	mg/L						09/23/24	13:45
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							
QC1205863549 686578001 PS													
Chloride	5.00		5.52		10.7	mg/L			103	(90%-110%)		09/23/24	20:39
Fluoride	2.50	U	ND		2.47	mg/L			98.9	(90%-110%)		09/24/24	14:21
Sulfate	10.0		1.01		10.4	mg/L			93.5	(90%-110%)		09/23/24	20:39

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
QC1205861292 LCS										
Antimony	0.0500			0.0494	mg/L		98.8	(80%-120%)	PRB	10/03/24 02:42
Arsenic	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Barium	0.0500			0.0506	mg/L		101	(80%-120%)		
Beryllium	0.0500			0.0557	mg/L		111	(80%-120%)		
Boron	0.100			0.107	mg/L		107	(80%-120%)		
Cadmium	0.0500			0.0495	mg/L		99.1	(80%-120%)		
Calcium	2.00			2.11	mg/L		105	(80%-120%)		
Chromium	0.0500			0.0481	mg/L		96.1	(80%-120%)		
Cobalt	0.0500			0.0482	mg/L		96.4	(80%-120%)		
Iron	2.00			1.94	mg/L		97.1	(80%-120%)		
Lead	0.0500			0.0497	mg/L		99.5	(80%-120%)		
Lithium	0.0500			0.0523	mg/L		105	(80%-120%)		
Magnesium	2.00			2.03	mg/L		101	(80%-120%)		
Manganese	0.0500			0.0474	mg/L		94.9	(80%-120%)		

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
Molybdenum	0.0500			0.0501	mg/L		100	(80%-120%)	PRB	10/03/24 02:42
Potassium	2.00			1.97	mg/L		98.6	(80%-120%)		
Selenium	0.0500			0.0517	mg/L		103	(80%-120%)		
Sodium	2.00			2.07	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0480	mg/L		96.1	(80%-120%)		
QC1205861291 MB										
Antimony			U	ND	mg/L					10/03/24 02:38
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
Iron			U	ND	mg/L				PRB	10/03/24 02:38
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			J	0.000259	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205861293 686578001 MS										
Antimony	0.0500	U	ND	0.0474	mg/L		94.3	(75%-125%)		10/03/24 02:57
Arsenic	0.0500	J	0.00235	0.0455	mg/L		86.2	(75%-125%)		
Barium	0.0500	J	0.539	0.592	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0459	mg/L		91.7	(75%-125%)		

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675467											
Boron	0.100		0.449		0.524	mg/L		N/A	(75%-125%)	PRB	10/01/24 23:54
Cadmium	0.0500	U	ND		0.0412	mg/L		82.4	(75%-125%)		10/03/24 02:57
Calcium	2.00		239		230	mg/L		N/A	(75%-125%)		10/01/24 23:54
Chromium	0.0500	U	ND		0.0482	mg/L		91.8	(75%-125%)		10/03/24 02:57
Cobalt	0.0500	U	ND		0.0428	mg/L		85.4	(75%-125%)		
Iron	2.00		76.6		74.2	mg/L		N/A	(75%-125%)		10/01/24 23:54
Lead	0.0500	U	ND		0.0420	mg/L		83.9	(75%-125%)		10/03/24 02:57
Lithium	0.0500	J	0.00988		0.0604	mg/L		101	(75%-125%)		
Magnesium	2.00		320		314	mg/L		N/A	(75%-125%)		10/03/24 03:15
Manganese	0.0500		0.119		0.165	mg/L		92.4	(75%-125%)		10/03/24 02:57
Molybdenum	0.0500	J	0.00103		0.0561	mg/L		110	(75%-125%)		
Potassium	2.00		88.2		87.9	mg/L		N/A	(75%-125%)		10/01/24 23:54
Selenium	0.0500	J	0.00170		0.0464	mg/L		89.4	(75%-125%)		10/03/24 02:57
Sodium	2.00		3140		3000	mg/L		N/A	(75%-125%)		10/03/24 03:37

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675467											
Thallium	0.0500	U	ND		0.0417	mg/L		83.1	(75%-125%)	PRB	10/03/24 02:57
QC1205861294 686578001 MSD											
Antimony	0.0500	U	ND		0.0463	mg/L	2.19	92.3	(0%-20%)		10/03/24 03:00
Arsenic	0.0500	J	0.00235		0.0451	mg/L	0.839	85.5	(0%-20%)		
Barium	0.0500	J	0.539		0.585	mg/L	1.3	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0457	mg/L	0.4	91.3	(0%-20%)		
Boron	0.100		0.449		0.523	mg/L	0.162	N/A	(0%-20%)		10/01/24 23:57
Cadmium	0.0500	U	ND		0.0407	mg/L	1.26	81.4	(0%-20%)		10/03/24 03:00
Calcium	2.00		239		227	mg/L	1.52	N/A	(0%-20%)		10/01/24 23:57
Chromium	0.0500	U	ND		0.0476	mg/L	1.17	90.6	(0%-20%)		10/03/24 03:00
Cobalt	0.0500	U	ND		0.0423	mg/L	1.1	84.5	(0%-20%)		
Iron	2.00		76.6		73.9	mg/L	0.406	N/A	(0%-20%)		10/01/24 23:57
Lead	0.0500	U	ND		0.0416	mg/L	0.928	83.2	(0%-20%)		10/03/24 03:00
Lithium	0.0500	J	0.00988		0.0596	mg/L	1.22	99.5	(0%-20%)		
Magnesium	2.00		320		303	mg/L	3.54	N/A	(0%-20%)		10/03/24 03:19

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675467											
Manganese	0.0500		0.119		0.163	mg/L	1.69	86.9	(0%-20%)	PRB	10/03/24 03:00
Molybdenum	0.0500	J	0.00103		0.0549	mg/L	2.02	108	(0%-20%)		
Potassium	2.00		88.2		86.2	mg/L	1.99	N/A	(0%-20%)		10/01/24 23:57
Selenium	0.0500	J	0.00170		0.0471	mg/L	1.43	90.7	(0%-20%)		10/03/24 03:00
Sodium	2.00		3140		3000	mg/L	0.055	N/A	(0%-20%)		10/03/24 03:41
Thallium	0.0500	U	ND		0.0408	mg/L	2.2	81.3	(0%-20%)		10/03/24 03:00
QC1205861295 686578001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Arsenic		J	2.35	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	539	J	118	ug/L	9.4		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			89.8		19.2	ug/L	6.96		(0%-20%)		10/02/24 00:05
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Calcium			47700		9600	ug/L	.524		(0%-20%)		10/02/24 00:05
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/03/24 03:08
Iron		15300		3160	ug/L	3		(0%-20%)		10/02/24 00:05
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Lithium	J	9.88	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		32000		6510	ug/L	1.82		(0%-20%)		10/03/24 03:22
Manganese		119		25.8	ug/L	8.1		(0%-20%)		10/03/24 03:08
Molybdenum	J	1.03	J	0.344	ug/L	66.5		(0%-20%)		
Potassium		17600		3510	ug/L	.384		(0%-20%)		10/02/24 00:05
Selenium	J	1.70	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Sodium		31400		6400	ug/L	1.96		(0%-20%)		10/03/24 03:44
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Metals Analysis-Mercury										
Batch 2675717										
QC1205861724 686578001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/24/24 13:34
QC1205861723 LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		09/24/24 13:31

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2675717											
QC1205861722 MB											
Mercury				U	ND	mg/L				JP2	09/24/24 13:29
QC1205861725 686578001 MS											
Mercury	0.00200	U	ND		0.00180	mg/L		89.8	(75%-125%)		09/24/24 13:39
QC1205861726 686578001 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		09/24/24 13:40
Solids Analysis											
Batch 2676253											
QC1205863107 686320003 DUP											
Total Dissolved Solids			212		222	mg/L	4.61		(0%-5%)	KLP1	09/24/24 10:50
QC1205863106 LCS											
Total Dissolved Solids	300				299	mg/L		99.7	(95%-105%)		09/24/24 10:50
QC1205863105 MB											
Total Dissolved Solids				U	ND	mg/L					09/24/24 10:50
Batch 2677630											
QC1205865957 686477001 DUP											
Total Dissolved Solids			933		928	mg/L	0.537		(0%-5%)	KLP1	09/25/24 11:28
QC1205865956 LCS											
Total Dissolved Solids	300				292	mg/L		97.3	(95%-105%)		09/25/24 11:28
QC1205865955 MB											
Total Dissolved Solids				U	ND	mg/L					09/25/24 11:28

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2675517										
QC1205861415 LCS										
Alkalinity, Total as CaCO3	50.0			52.6	mg/L		105		HH2	09/20/24 12:06
QC1205861416 LCS										
Alkalinity, Total as CaCO3	15.0			15.7	mg/L		105			09/20/24 12:09
QC1205861417 LCSD										
Alkalinity, Total as CaCO3	50.0			52.5	mg/L	0.19	105			09/20/24 12:07
QC1205861418 LCSD										
Alkalinity, Total as CaCO3	15.0			15.6	mg/L	0.639	104			09/20/24 12:11

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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

QC Summary

Workorder: **686578**

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2675467

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2675466

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

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205861291	Method Blank (MB)**ICP-MS**
1205861292	Laboratory Control Sample (LCS)
1205861295	686578001(MCM-INW-01L) Serial Dilution (SD)
1205861293	686578001(MCM-INW-01S) Matrix Spike (MS)
1205861294	686578001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686578001 (MCM-INW-01), 686578002

(MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	686578								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	1X	1X	1X	1X	1X	1X	100X	1X
Magnesium	10X	5X	10X	5X	5X	10X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2675717

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2675714

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

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205861722	Method Blank (MB)**CVAA**
1205861723	Laboratory Control Sample (LCS)
1205861726	686578001(MCM-INW-01L) Serial Dilution (SD)
1205861724	686578001(MCM-INW-01D) Sample Duplicate (DUP)
1205861725	686578001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2676424

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

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205863546	Method Blank (MB)
1205863547	Laboratory Control Sample (LCS)
1205863548	686578001(MCM-INW-01) Sample Duplicate (DUP)
1205863549	686578001(MCM-INW-01) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
Samples 1205863548 (MCM-INW-01DUP), 1205863549 (MCM-INW-01PS), 686578001 (MCM-INW-01), 686578002 (MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 686578001 (MCM-INW-01), 686578002 (MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	686578								
	001	002	003	004	005	006	007	008	009
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Sample was re-analyzed to verify the results. The results from the reanalysis are reported. 1205863547 (LCS).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2676253

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

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
1205863105	Method Blank (MB)
1205863106	Laboratory Control Sample (LCS)
1205863107	686320003(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to limited sample volume. 1205863107 (Non SDG 686320003DUP). A reduced aliquot was used due to historical information. 686578001 (MCM-INW-01), 686578002 (MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2677630

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

GEL Sample ID#	Client Sample Identification
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205865955	Method Blank (MB)
1205865956	Laboratory Control Sample (LCS)
1205865957	686477001(NonSDG) Sample Duplicate (DUP)

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: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2675517

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

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205861415	Laboratory Control Sample (LCS)
1205861416	Laboratory Control Sample (LCS)
1205861417	Laboratory Control Sample Duplicate (LCSD)
1205861418	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

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 686578 686583

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
									NI	NI				
MCM-INW-01	9/17/24	1222	G	Y*	WG			5	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl*
MCM-MCM-06	9/17/24	1156	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-01	9/17/24	1002	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	9/17/24	1537	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	9/17/24	1550	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	9/18/24	1107	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	9/18/24	0958	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	9/17/24	1035	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	9/17/24	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	9/18/24	1258	FB	N	WQ			5	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/18/24	1420	Fed Ex	9/18/24	
2					9/19/24	840
3						

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240916** 237554

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

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Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	9/18/24	1305	EB	N	WQ			5	X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental			1	9/12/24	940
2				2		
3				3		

TAT Requested: **Normal:** ___X__ **Rush:**_____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240916** 237554

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

686578
686583

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/19/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2724 5025 4381

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 / uR/Hr** **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 0 C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/23/24
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC (Other (describe)) ~~Missing cooler~~ HB 9/23/24
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 VM Date 9/20/24 Page 1 of 1

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/20/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 7796 8025 4870

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) cooler not sealed when arrived
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt received in cooler on 9/19/24
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 melted ice TEMP: 1c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/24/24
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe) ~~missing cooler from 9/19/24~~ HB 9/24/24
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):

~~Missing containers for MEM-AP1-EB-01 and EB-01 (1 dissolved metals per HDJ~~
HB 9/23/24

PM (or PMA) review: Initials HB Date SEP 23 2024 Page 1 of 1

Outlook

Receipt Notification- Plant McManus 686578 & 686583

From Hannah Bowden <Hannah.Bowden@gel.com>
Date Tue 9/24/2024 9:09 AM
To KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>; MJSMILLE@SOUTHERNCO.COM <MJSMILLE@SOUTHERNCO.COM>; NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>; kathryn.farris@arcadis.com <kathryn.farris@arcadis.com>
Cc Team Pinnick <Team.Pinnick@gel.com>

1 attachments (2 MB)
686578coc.pdf;

Good morning,

Notifying you that one of the shipping coolers for samples received, 9/19/24 and 9/20/24, was not sealed and did not contain a chain of custody. The chain of custody was received in the first cooler that was delivered on 9/19/24. There is no response needed! Please see the attached COC for reference..

Hannah Bowden
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407 |
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com

List of current GEL Certifications as of 11 November 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-42
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 15, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 6-Week Sampling September 2024 Week 6
Work Order: 688692

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 03, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
688692001	MCM-INW-01	Ground Water	10/02/24 10:16	10/03/24 09:10
688692002	MCM-MCM-06	Ground Water	10/01/24 11:10	10/03/24 09:10
688692003	MCM-PT-01	Ground Water	10/01/24 12:58	10/03/24 09:10
688692004	MCM-PT-02	Ground Water	10/02/24 10:12	10/03/24 09:10
688692005	MCM-PT-03	Ground Water	10/01/24 13:36	10/03/24 09:10
688692006	MCM-DR-01	Ground Water	10/01/24 16:43	10/03/24 09:10
688692007	MCM-DR-02	Ground Water	10/01/24 16:37	10/03/24 09:10
688692008	MCM-DR-03	Ground Water	10/01/24 11:47	10/03/24 09:10
688692009	MCM-AP1-FD-01	Ground Water	10/01/24 12:00	10/03/24 09:10

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.

Prep Methods and Prep Dates

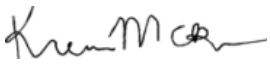
Method	Run Date ID
SW846 3005A	04-OCT-2024
SW846 7470A Prep	07-OCT-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	13-OCT-2024
SW846 3005A/6020B	14-OCT-2024
SW846 7470A	08-OCT-2024

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. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 688692 GEL Work Order: 688692

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

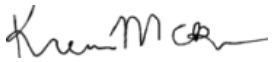
N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by 

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

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688692001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:16		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1135	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/14/24	1356	2682269	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.546	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.482	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		32.4	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	J	0.00198	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688692001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688692002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:10		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000750	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1137	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.103	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2252	2682269	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0462	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0550	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000366	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00155	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1458	2682269	3
Barium	J	0.105	0.000670	2.00	mg/L	1.00	1					
Boron		0.740	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1422	2682269	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688692002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688692003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:58		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1138	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0108	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2255	2682269	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0929	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0321	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000412	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00162	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1502	2682269	3
Barium	J	0.659	0.000670	2.00	mg/L	1.00	1					
Boron		0.777	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1426	2682269	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688692003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688692004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:12		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1140	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1506	2682269	2
Barium	J	0.485	0.000670	2.00	mg/L	1.00	1					
Boron		0.673	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1429	2682269	3
Arsenic		0.0279	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2259	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.763	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0253	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000483	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00183	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688692004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688692005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 13:36		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000810	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1141	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.690	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1433	2682269	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1509	2682269	3
Barium	J	0.255	0.000670	2.00	mg/L	1.00	1					
Arsenic	J	0.00855	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2303	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.518	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0320	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000284	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688692005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688692006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:43		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000740	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1143	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0219	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2306	2682269	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.272	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0419	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000376	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00180	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.746	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1437	2682269	3
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1513	2682269	4
Barium	J	0.338	0.000670	2.00	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688692006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688692007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:37		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000790	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1145	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.870	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1440	2682269	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1517	2682269	3
Barium	J	0.0714	0.000670	2.00	mg/L	1.00	1					
Arsenic		0.0521	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2310	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0369	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0468	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000595	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00163	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688692007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688692008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:47		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000780	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1146	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.911	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1444	2682269	2
Iron		89.7	0.330	1.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1520	2682269	3
Barium	J	0.0312	0.000670	2.00	mg/L	1.00	1					
Arsenic	J	0.00243	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2314	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0437	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000675	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688692008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688692009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:00		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000750	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1151	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1524	2682269	2
Barium	J	0.0699	0.000670	2.00	mg/L	1.00	1					
Boron		0.883	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1447	2682269	3
Arsenic		0.0516	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2317	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0491	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0465	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000603	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688692009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 15, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682269										
QC1205874965 LCS										
Antimony	0.0500			0.0499	mg/L		99.7	(80%-120%)	PRB	10/14/24 13:53
Arsenic	0.0500			0.0487	mg/L		97.4	(80%-120%)		10/13/24 22:22
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		10/14/24 13:53
Beryllium	0.0500			0.0554	mg/L		111	(80%-120%)		10/13/24 22:22
Boron	0.100			0.104	mg/L		104	(80%-120%)		10/14/24 13:53
Cadmium	0.0500			0.0499	mg/L		99.9	(80%-120%)		10/13/24 22:22
Chromium	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Cobalt	0.0500			0.0497	mg/L		99.3	(80%-120%)		
Iron	2.00			1.98	mg/L		99.2	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0529	mg/L		106	(80%-120%)		
Molybdenum	0.0500			0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682269										
Selenium	0.0500			0.0507	mg/L		101	(80%-120%)	PRB	10/13/24 22:22
Thallium	0.0500			0.0480	mg/L		96	(80%-120%)		
QC1205874964 MB										
Antimony			U	ND	mg/L					10/14/24 13:49
Arsenic			U	ND	mg/L					10/13/24 22:19
Barium			U	ND	mg/L					10/14/24 13:49
Beryllium			U	ND	mg/L					10/13/24 22:19
Boron			U	ND	mg/L					10/14/24 13:49
Cadmium			U	ND	mg/L					10/13/24 22:19
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					

QC Summary

Workorder: **688692**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682269											
Selenium				U	ND	mg/L				PRB	10/13/24 22:19
Thallium				U	ND	mg/L					
QC1205874966 688692001 MS											
Antimony	0.0500	U	ND		0.0496	mg/L		97.9	(75%-125%)		10/14/24 14:00
Arsenic	0.0500	U	ND		0.0518	mg/L		99.3	(75%-125%)		
Barium	0.0500	J	0.546		0.578	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)		
Boron	0.100		0.482		0.549	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0466	mg/L		92.9	(75%-125%)		
Chromium	0.0500	U	ND		0.0485	mg/L		97	(75%-125%)		
Cobalt	0.0500	U	ND		0.0463	mg/L		92.1	(75%-125%)		
Iron	2.00		32.4		33.4	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0448	mg/L		88.9	(75%-125%)		
Lithium	0.0500	U	ND		0.0585	mg/L		99.4	(75%-125%)		
Molybdenum	0.0500	J	0.00198		0.0560	mg/L		108	(75%-125%)		

QC Summary

Workorder: **688692**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682269											
Selenium	0.0500	U	ND		0.0516	mg/L		102	(75%-125%)	PRB	10/14/24 14:00
Thallium	0.0500	U	ND		0.0424	mg/L		84	(75%-125%)		
QC1205874967 688692001 MSD											
Antimony	0.0500	U	ND		0.0511	mg/L	3.11	101	(0%-20%)		10/14/24 14:04
Arsenic	0.0500	U	ND		0.0545	mg/L	5.12	105	(0%-20%)		
Barium	0.0500	J	0.546		0.598	mg/L	3.37	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0503	mg/L	5.06	100	(0%-20%)		
Boron	0.100		0.482		0.581	mg/L	5.77	N/A	(0%-20%)		
Cadmium	0.0500	U	ND		0.0476	mg/L	2.14	94.9	(0%-20%)		
Chromium	0.0500	U	ND		0.0503	mg/L	3.6	101	(0%-20%)		
Cobalt	0.0500	U	ND		0.0480	mg/L	3.56	95.5	(0%-20%)		
Iron	2.00		32.4		34.2	mg/L	2.24	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0469	mg/L	4.43	93	(0%-20%)		
Lithium	0.0500	U	ND		0.0618	mg/L	5.45	106	(0%-20%)		
Molybdenum	0.0500	J	0.00198		0.0573	mg/L	2.31	111	(0%-20%)		

QC Summary

Workorder: **688692**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682269											
Selenium	0.0500	U	ND		0.0564	mg/L	8.81	112	(0%-20%)	PRB	10/14/24 14:04
Thallium	0.0500	U	ND		0.0447	mg/L	5.27	88.6	(0%-20%)		
QC1205874968 688692001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/14/24 14:11
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	109	J	22.7	ug/L	4.04		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			96.4		22.1	ug/L	14.8		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron			6490		1370	ug/L	5.44		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum		J	0.395	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2682269												
Selenium	U	ND	U	ND	ug/L	N/A			(0%-20%)	PRB	10/14/24	14:11
Thallium	U	ND	U	ND	ug/L	N/A			(0%-20%)			
Metals Analysis-Mercury												
Batch 2682987												
QC1205876359 688684001 DUP												
Mercury	J	0.0000780	J	0.0000780	mg/L	0	^		(+/-0.000200)	JP2	10/08/24	11:05
QC1205876358 LCS												
Mercury 0.00200				0.00205	mg/L			103	(80%-120%)		10/08/24	11:02
QC1205876357 MB												
Mercury			J	0.0000730	mg/L						10/08/24	11:00
QC1205876360 688684001 MS												
Mercury 0.00200	J	0.0000780		0.00184	mg/L			88	(75%-125%)		10/08/24	11:07
QC1205876361 688684001 SDILT												
Mercury	J	0.0780	J	0.0730	ug/L	368			(0%-10%)		10/08/24	11:12

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

QC Summary

Workorder: **688692**

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

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

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.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

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.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 688692

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2682269

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2682267

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

GEL Sample ID#	Client Sample Identification
688692001	MCM-INW-01
688692002	MCM-MCM-06
688692003	MCM-PT-01
688692004	MCM-PT-02
688692005	MCM-PT-03
688692006	MCM-DR-01
688692007	MCM-DR-02
688692008	MCM-DR-03
688692009	MCM-AP1-FD-01
1205874964	Method Blank (MB)**ICP-MS**
1205874965	Laboratory Control Sample (LCS)
1205874968	688692001(MCM-INW-01L) Serial Dilution (SD)
1205874966	688692001(MCM-INW-01S) Matrix Spike (MS)
1205874967	688692001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 688692001 (MCM-INW-01) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	688692								
	001	002	003	004	005	006	007	008	009
Antimony	5X	1X	1X	1X	1X	1X	1X	1X	1X
Arsenic	5X	1X	1X	1X	1X	1X	1X	1X	1X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	10X	10X	10X	10X	10X	10X	10X	10X
Cadmium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	1X	10X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	1X	1X	1X	1X	1X	1X	1X	1X
Selenium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2682987

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2682986

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

GEL Sample ID#	Client Sample Identification
688692001	MCM-INW-01
688692002	MCM-MCM-06
688692003	MCM-PT-01
688692004	MCM-PT-02
688692005	MCM-PT-03
688692006	MCM-DR-01
688692007	MCM-DR-02
688692008	MCM-DR-03
688692009	MCM-AP1-FD-01
1205876357	Method Blank (MB)**CVAA**
1205876358	Laboratory Control Sample (LCS)
1205876361	688684001(MCM-INW-01L) Serial Dilution (SD)
1205876359	688684001(MCM-INW-01D) Sample Duplicate (DUP)
1205876360	688684001(MCM-INW-01S) 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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 688684 688692

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Sewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list NI	Dissolved Metals* (6020B) - see list NI	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-INW-01	10/02/24	1016	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	10/01/24	1110	G	Y*	WG			3	X	X	X		
MCM-PT-01	10/01/24	1258	G	Y*	WG			3	X	X	X		
MCM-PT-02	10/02/24	1012	G	Y*	WG			3	X	X	X		
MCM-PT-03	10/01/24	1336	G	Y*	WG			3	X	X	X		
MCM-DR-01	10/01/24	1643	G	Y*	WG			3	X	X	X		
MCM-DR-02	10/01/24	1637	G	Y*	WG			3	X	X	X		
MCM-DR-03	10/01/24	1147	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	10/01/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	10/02/24	0755	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	18:00	1 Fed Ex		
2				2	10/3/24	910
3				3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 2 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Stewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-AP1-EB-01	10/02/24	0802	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	13:00		10/3/24	09:10
2						
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Plant McManus Performance Monitoring Sampling Week 6					
Task Code: MCM-CCR-CA-20240930					
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Cl, F, SO4 (EPA 300)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X
Extra 1			X	X	X
Extra 2			X	X	X

** Dissloved samples to be field filtered

688684
688692

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 10/3/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2801 7476 8665

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: 2 C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date OCT 04 2024 Page 1 of 1

List of current GEL Certifications as of 15 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 17, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 6-Week Sampling September 2024 Week 6
Work Order: 688684

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 03, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
688684001	MCM-INW-01	Ground Water	10/02/24 10:16	10/03/24 09:10
688684002	MCM-MCM-06	Ground Water	10/01/24 11:10	10/03/24 09:10
688684003	MCM-PT-01	Ground Water	10/01/24 12:58	10/03/24 09:10
688684004	MCM-PT-02	Ground Water	10/02/24 10:12	10/03/24 09:10
688684005	MCM-PT-03	Ground Water	10/01/24 13:36	10/03/24 09:10
688684006	MCM-DR-01	Ground Water	10/01/24 16:43	10/03/24 09:10
688684007	MCM-DR-02	Ground Water	10/01/24 16:37	10/03/24 09:10
688684008	MCM-DR-03	Ground Water	10/01/24 11:47	10/03/24 09:10
688684009	MCM-AP1-FD-01	Ground Water	10/01/24 12:00	10/03/24 09:10
688684010	MCM-AP1-FB-01	Water	10/02/24 07:55	10/03/24 09:10
688684011	MCM-AP1-EB-01	Water	10/02/24 08:02	10/03/24 09:10

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.

Prep Methods and Prep Dates

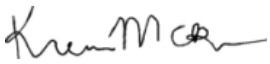
Method	Run Date ID
SW846 3005A	04-OCT-2024
SW846 7470A Prep	07-OCT-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	04-OCT-2024
EPA 300.0	05-OCT-2024
EPA 300.0	16-OCT-2024
SW846 3005A/6020B	15-OCT-2024
SW846 7470A	08-OCT-2024

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. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 688684 GEL Work Order: 688684

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

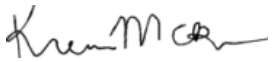
N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by 

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

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688684001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:16		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5470	67.0	200	mg/L		1000	CWW	10/04/24	2119	2682933	1
Sulfate		930	133	400	mg/L		1000					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	10/16/24	1040	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000780	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1104	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	10/15/24	1102	2682265	4
Barium	J	0.576	0.00335	2.00	mg/L	1.00	5					
Boron		0.461	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/15/24	0100	2682265	5
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		30.2	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00782	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/15/24	1622	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688684001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

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: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688684002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:10		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3370	33.5	100	mg/L		500	CWW	10/04/24	2151	2682933	1
Sulfate		376	66.5	200	mg/L		500					
Fluoride	J	0.488	0.330	1.00	mg/L		10	CWW	10/16/24	1111	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000760	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1115	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.679	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1236	2682265	4
Arsenic		0.0990	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0125	2682265	5
Barium	J	0.105	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0590	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0549	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000969	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00169	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1556	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688684002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688684003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:58		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4100	33.5	100	mg/L		500	CWW	10/04/24	2223	2682933	1
Sulfate		523	66.5	200	mg/L		500					
Fluoride	J	0.390	0.330	1.00	mg/L		10	CWW	10/16/24	1143	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1117	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.633	0.000670	2.00	mg/L	1.00	1	PRB	10/15/24	0129	2682265	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.156	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0318	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000677	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1558	2682265	5
Arsenic	J	0.0130	0.0100	0.0250	mg/L	1.00	5	PRB	10/15/24	1239	2682265	6
Boron		0.700	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688684003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688684004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:12		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.400	0.330	1.00	mg/L		10	CWW	10/16/24	1215	2682933	1
Chloride		3640	33.5	100	mg/L		500	CWW	10/04/24	2254	2682933	2
Sulfate		438	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000790	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1118	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.606	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1243	2682265	4
Arsenic		0.0292	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0133	2682265	5
Barium	J	0.486	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.909	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0239	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000810	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1559	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688684004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

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: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688684005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 13:36		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3460	33.5	100	mg/L		500	CWW	10/04/24	2326	2682933	1
Sulfate		448	66.5	200	mg/L		500					
Fluoride	J	0.418	0.330	1.00	mg/L		10	CWW	10/16/24	1247	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000840	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1120	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.679	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1247	2682265	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1601	2682265	5
Arsenic	J	0.00852	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0136	2682265	6
Barium	J	0.247	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.860	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0332	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000462	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688684005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688684006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:43		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3960	33.5	100	mg/L		500	CWW	10/05/24	0102	2682933	1
Sulfate		465	66.5	200	mg/L		500					
Fluoride	J	0.445	0.330	1.00	mg/L		10	CWW	10/16/24	1422	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000790	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1122	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.335	0.000670	2.00	mg/L	1.00	1	PRB	10/15/24	0140	2682265	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.317	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000741	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0263	0.0100	0.0250	mg/L	1.00	5	PRB	10/15/24	1250	2682265	5
Boron		0.713	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1604	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688684006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

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: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688684007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:37		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.613	0.330	1.00	mg/L		10	CWW	10/16/24	1454	2682933	1
Chloride		2730	33.5	100	mg/L		500	CWW	10/05/24	0134	2682933	2
Sulfate		324	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000750	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1123	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1606	2682265	4
Arsenic		0.0571	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0144	2682265	5
Barium	J	0.0652	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.213	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.00104	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00887	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.840	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1254	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688684007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

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: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688684008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:47		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.92	0.330	1.00	mg/L		10	CWW	10/16/24	1526	2682933	1
Chloride		2170	33.5	100	mg/L		500	CWW	10/05/24	0205	2682933	2
Sulfate		1170	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000760	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1125	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	J	0.00344	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0147	2682265	4
Barium	J	0.0326	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0456	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000860	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.843	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1258	2682265	5
Iron		85.2	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1608	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688684008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688684009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:00		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3370	33.5	100	mg/L		500	CWW	10/05/24	0413	2682933	1
Sulfate		379	66.5	200	mg/L		500					
Fluoride	J	0.513	0.330	1.00	mg/L		10	CWW	10/16/24	1733	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1127	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1609	2682265	4
Arsenic		0.0952	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0151	2682265	5
Barium	J	0.104	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0702	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0557	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000860	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00160	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.666	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1301	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688684009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

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: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01224
Sample ID:	688684010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	02-OCT-24 07:55		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/05/24	0516	2682933	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000730	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1132	2682987	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1611	2682265	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0155	2682265	4
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.0105	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01224
Sample ID:	688684010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01224
Sample ID:	688684011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	02-OCT-24 08:02		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/05/24	0548	2682933	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000710	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1133	2682987	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0158	2682265	3
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1613	2682265	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01224
Sample ID:	688684011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: October 17, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **688684**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2682933												
QC1205876266 688684005 DUP												
Chloride			3460		3450	mg/L	0.511			(0%-20%)	CWW	10/04/24 23:58
Fluoride		J	0.418	J	0.436	mg/L	4.22	^		(+/-1.00)		10/16/24 13:19
Sulfate			448		464	mg/L	3.67	^		(+/-200)		10/04/24 23:58
QC1205876263 LCS												
Chloride	5.00				4.74	mg/L			94.7	(90%-110%)		10/04/24 15:29
Fluoride	2.50				2.43	mg/L			97.2	(90%-110%)		
Sulfate	10.0				9.64	mg/L			96.4	(90%-110%)		
QC1205876262 MB												
Chloride				U	ND	mg/L						10/04/24 14:57
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205876267 688684005 PS												
Chloride	5.00		6.93		12.1	mg/L			104	(90%-110%)		10/05/24 00:30
Fluoride	2.50	J	0.0418		2.43	mg/L			95.7	(90%-110%)		10/16/24 13:50
Sulfate	10.0		0.895		10.5	mg/L			96.5	(90%-110%)		10/05/24 00:30

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682265										
QC1205874960 LCS										
Antimony	0.0500			0.0479	mg/L		95.8	(80%-120%)	PRB	10/15/24 16:21
Arsenic	0.0500			0.0479	mg/L		95.8	(80%-120%)		10/15/24 00:56
Barium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Beryllium	0.0500			0.0517	mg/L		103	(80%-120%)		
Boron	0.100			0.102	mg/L		102	(80%-120%)		
Cadmium	0.0500			0.0485	mg/L		96.9	(80%-120%)		
Chromium	0.0500			0.0469	mg/L		93.8	(80%-120%)		
Cobalt	0.0500			0.0468	mg/L		93.6	(80%-120%)		
Iron	2.00			1.89	mg/L		94.4	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.5	(80%-120%)		
Lithium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Molybdenum	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)		
Thallium	0.0500			0.0447	mg/L		89.4	(80%-120%)		

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682265										
QC1205874959 MB										
Antimony			U	ND	mg/L				PRB	10/15/24 16:19
Arsenic			U	ND	mg/L					10/15/24 00:52
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			J	0.000419	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **688684**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682265											
QC1205874961 688684001 MS											
Antimony	0.0500	U	ND		0.0492	mg/L		97.9	(75%-125%)	PRB	10/15/24 16:24
Arsenic	0.0500	U	ND		0.0527	mg/L		101	(75%-125%)		10/15/24 11:06
Barium	0.0500	J	0.576		0.605	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0422	mg/L		84.3	(75%-125%)		10/15/24 01:03
Boron	0.100		0.461		0.536	mg/L		N/A	(75%-125%)		10/15/24 11:06
Cadmium	0.0500	U	ND		0.0444	mg/L		88.5	(75%-125%)		
Chromium	0.0500	U	ND		0.0447	mg/L		88.8	(75%-125%)		10/15/24 01:03
Cobalt	0.0500	U	ND		0.0406	mg/L		81	(75%-125%)		
Iron	2.00		30.2		31.4	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0447	mg/L		89.1	(75%-125%)		10/15/24 11:06
Lithium	0.0500	J	0.00782		0.0562	mg/L		96.7	(75%-125%)		10/15/24 01:03
Molybdenum	0.0500	U	ND		0.0536	mg/L		106	(75%-125%)		10/15/24 11:06
Selenium	0.0500	U	ND		0.0539	mg/L		101	(75%-125%)		
Thallium	0.0500	U	ND		0.0414	mg/L		82	(75%-125%)		

QC Summary

Workorder: **688684**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682265											
QC1205874962 688684001 MSD											
Antimony	0.0500	U	ND		0.0503	mg/L	2.22	100	(0%-20%)	PRB	10/15/24 16:26
Arsenic	0.0500	U	ND		0.0529	mg/L	0.445	101	(0%-20%)		10/15/24 11:09
Barium	0.0500	J	0.576		0.631	mg/L	4.19	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0420	mg/L	0.53	83.8	(0%-20%)		10/15/24 01:07
Boron	0.100		0.461		0.555	mg/L	3.47	N/A	(0%-20%)		10/15/24 11:09
Cadmium	0.0500	U	ND		0.0467	mg/L	5.02	93.1	(0%-20%)		
Chromium	0.0500	U	ND		0.0444	mg/L	0.588	88.2	(0%-20%)		10/15/24 01:07
Cobalt	0.0500	U	ND		0.0403	mg/L	0.823	80.3	(0%-20%)		
Iron	2.00		30.2		31.1	mg/L	1.06	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0462	mg/L	3.26	92	(0%-20%)		10/15/24 11:09
Lithium	0.0500	J	0.00782		0.0558	mg/L	0.725	95.9	(0%-20%)		10/15/24 01:07
Molybdenum	0.0500	U	ND		0.0550	mg/L	2.55	108	(0%-20%)		10/15/24 11:09
Selenium	0.0500	U	ND		0.0565	mg/L	4.78	106	(0%-20%)		
Thallium	0.0500	U	ND		0.0423	mg/L	2.1	83.7	(0%-20%)		

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682265										
QC1205874963 688684001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/15/24 16:30
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 11:17
Barium	J	115	J	23.9	ug/L	3.79		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 01:14
Boron		92.1		21.7	ug/L	18		(0%-20%)		10/15/24 11:17
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 01:14
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		30200		6470	ug/L	7.19		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 11:17
Lithium	J	7.82	U	ND	ug/L	N/A		(0%-20%)		10/15/24 01:14
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 11:17
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2682987										
QC1205876359 688684001 DUP										
Mercury		J 0.0000780	J	0.0000780	mg/L	0 ^		(+/-0.000200)	JP2	10/08/24 11:05
QC1205876358 LCS										
Mercury	0.00200			0.00205	mg/L		103	(80%-120%)		10/08/24 11:02
QC1205876357 MB										
Mercury			J	0.0000730	mg/L					10/08/24 11:00
QC1205876360 688684001 MS										
Mercury	0.00200	J 0.0000780		0.00184	mg/L		88	(75%-125%)		10/08/24 11:07
QC1205876361 688684001 SDILT										
Mercury		J 0.0780	J	0.0730	ug/L	368		(0%-10%)		10/08/24 11:12

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

QC Summary

Workorder: **688684**

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

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2682265

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2682264

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

GEL Sample ID#	Client Sample Identification
688684001	MCM-INW-01
688684002	MCM-MCM-06
688684003	MCM-PT-01
688684004	MCM-PT-02
688684005	MCM-PT-03
688684006	MCM-DR-01
688684007	MCM-DR-02
688684008	MCM-DR-03
688684009	MCM-AP1-FD-01
688684010	MCM-AP1-FB-01
688684011	MCM-AP1-EB-01
1205874959	Method Blank (MB)**ICP-MS**
1205874960	Laboratory Control Sample (LCS)
1205874963	688684001(MCM-INW-01L) Serial Dilution (SD)
1205874961	688684001(MCM-INW-01S) Matrix Spike (MS)
1205874962	688684001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 688684001 (MCM-INW-01), 688684002

(MCM-MCM-06), 688684003 (MCM-PT-01), 688684004 (MCM-PT-02), 688684005 (MCM-PT-03), 688684006 (MCM-DR-01), 688684007 (MCM-DR-02), 688684008 (MCM-DR-03) and 688684009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 688684001 (MCM-INW-01), 688684003 (MCM-PT-01) and 688684006 (MCM-DR-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	688684								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	1X	1X	1X	1X	1X	1X	1X	1X
Arsenic	5X	1X	5X	1X	1X	5X	1X	1X	1X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	1X	1X	1X	1X	1X	1X	1X	5X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	1X	1X	1X	1X	1X	1X	1X	1X
Selenium	5X	1X	5X	1X	1X	5X	1X	1X	1X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2682987

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2682986

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

GEL Sample ID#	Client Sample Identification
688684001	MCM-INW-01
688684002	MCM-MCM-06
688684003	MCM-PT-01
688684004	MCM-PT-02
688684005	MCM-PT-03
688684006	MCM-DR-01
688684007	MCM-DR-02
688684008	MCM-DR-03
688684009	MCM-AP1-FD-01
688684010	MCM-AP1-FB-01
688684011	MCM-AP1-EB-01
1205876357	Method Blank (MB)**CVAA**
1205876358	Laboratory Control Sample (LCS)
1205876361	688684001(MCM-INW-01L) Serial Dilution (SD)
1205876359	688684001(MCM-INW-01D) Sample Duplicate (DUP)
1205876360	688684001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2682933

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

GEL Sample ID#	Client Sample Identification
688684001	MCM-INW-01
688684002	MCM-MCM-06
688684003	MCM-PT-01
688684004	MCM-PT-02
688684005	MCM-PT-03
688684006	MCM-DR-01
688684007	MCM-DR-02
688684008	MCM-DR-03
688684009	MCM-AP1-FD-01
688684010	MCM-AP1-FB-01
688684011	MCM-AP1-EB-01
1205876262	Method Blank (MB)
1205876263	Laboratory Control Sample (LCS)
1205876266	688684005(MCM-PT-03) Sample Duplicate (DUP)
1205876267	688684005(MCM-PT-03) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
Samples 1205876266 (MCM-PT-03DUP), 1205876267 (MCM-PT-03PS), 688684001 (MCM-INW-01), 688684002 (MCM-MCM-06), 688684003 (MCM-PT-01), 688684004 (MCM-PT-02), 688684005 (MCM-PT-03), 688684006 (MCM-DR-01), 688684007 (MCM-DR-02), 688684008 (MCM-DR-03) and 688684009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205876266 (MCM-PT-03DUP), 1205876267 (MCM-PT-03PS), 688684001 (MCM-INW-01), 688684002 (MCM-MCM-06), 688684003 (MCM-PT-01), 688684004 (MCM-PT-02), 688684005 (MCM-PT-03), 688684006 (MCM-DR-01), 688684007 (MCM-DR-02), 688684008 (MCM-DR-03) and 688684009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	688684								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

688684
688692

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Stewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-INW-01	10/02/24	1016	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	10/01/24	1110	G	Y*	WG			3	X	X	X		
MCM-PT-01	10/01/24	1258	G	Y*	WG			3	X	X	X		
MCM-PT-02	10/02/24	1012	G	Y*	WG			3	X	X	X		
MCM-PT-03	10/01/24	1336	G	Y*	WG			3	X	X	X		
MCM-DR-01	10/01/24	1643	G	Y*	WG			3	X	X	X		
MCM-DR-02	10/01/24	1637	G	Y*	WG			3	X	X	X		
MCM-DR-03	10/01/24	1147	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	10/01/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	10/02/24	0755	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	18:00	1 Fed Ex		
2				2	10/3/24	910
3				3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 2 °C

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list NI	Dissolved Metals* (6020B) - see list NI	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	10/02/24	0802	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	13:00	1		10/3/24	09:10
2				2			
3				3			

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 10 of 13 SDG: 680681

Plant McManus Performance Monitoring Sampling Week 6					
Task Code: MCM-CCR-CA-20240930					
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Cl, F, SO4 (EPA 300)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X
Extra 1			X	X	X
Extra 2			X	X	X

** Dissloved samples to be field filtered

688684
688692

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 10/3/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2801 7476 8665

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:** 2 c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date OCT 04 2024 Page 1 of 1

List of current GEL Certifications as of 17 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

November 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 8-Week Sampling October 2024
Work Order: 690725

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 17, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 690725 in the left-hand footer of the data report. Revision 02 corrects the collection date for 007,010, 011 and 018.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
690725001	MCM-INW-01	Ground Water	10/15/24 14:11	10/17/24 09:15
690725002	MCM-MCM-06	Ground Water	10/15/24 11:41	10/17/24 09:15
690725003	MCM-PT-01	Ground Water	10/15/24 09:55	10/17/24 09:15
690725004	MCM-PT-02	Ground Water	10/15/24 16:01	10/17/24 09:15
690725005	MCM-PT-03	Ground Water	10/15/24 16:46	10/17/24 09:15
690725006	MCM-DR-01	Ground Water	10/15/24 14:18	10/17/24 09:15
690725007	MCM-DR-02	Ground Water	10/16/24 10:16	10/17/24 09:15
690725008	MCM-DR-03	Ground Water	10/15/24 10:31	10/17/24 09:15
690725009	MCM-AP1-FD-01	Ground Water	10/15/24 12:00	10/17/24 09:15
690725010	MCM-AP1-FB-01	Water	10/16/24 08:30	10/17/24 09:15
690725011	MCM-AP1-EB-01	Water	10/16/24 08:41	10/17/24 09:15
690725012	MCM-INW-01	Ground Water	10/15/24 14:11	10/17/24 09:15
690725013	MCM-MCM-06	Ground Water	10/15/24 11:41	10/17/24 09:15
690725014	MCM-PT-01	Ground Water	10/15/24 09:55	10/17/24 09:15
690725015	MCM-PT-02	Ground Water	10/15/24 16:01	10/17/24 09:15

690725016	MCM-PT-03	Ground Water	10/15/24 16:46	10/17/24 09:15
690725017	MCM-DR-01	Ground Water	10/15/24 14:18	10/17/24 09:15
690725018	MCM-DR-02	Ground Water	10/16/24 10:16	10/17/24 09:15
690725019	MCM-DR-03	Ground Water	10/15/24 10:31	10/17/24 09:15
690725020	MCM-AP1-FD-01	Ground Water	10/15/24 12:00	10/17/24 09:15

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.

Prep Methods and Prep Dates

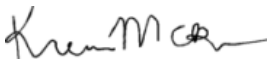
Method	Run Date ID
SW846 3005A	19-OCT-2024
SW846 7470A Prep	21-OCT-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-OCT-2024
EPA 300.0	18-OCT-2024
EPA 300.0	19-OCT-2024
SM 2320B	17-OCT-2024
SM 2540C	22-OCT-2024
SW846 3005A/6020B	25-OCT-2024
SW846 3005A/6020B	26-OCT-2024
SW846 7470A	22-OCT-2024

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. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 690725 GEL Work Order: 690725

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by

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

Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:11		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	10/18/24	1812	2689861	1
Chloride		5020	67.0	200	mg/L		1000	CWW	10/17/24	2355	2689861	2
Sulfate		725	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1204	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2106	2690003	4
Barium	J	0.531	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		26.0	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0783	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00195	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0334	2690003	5
Lithium	J	0.00746	0.00300	0.0400	mg/L	1.00	1					
Magnesium		359	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1320	2690003	6
Sodium		3300	8.00	25.0	mg/L	1.00	100					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1456	2690003	7
Boron		0.494	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		225	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		88.0	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10600	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		167	0.725	2.00	mg/L			JW2	10/17/24	1435	2689755	9
Bicarbonate alkalinity (CaCO3)		167	0.725	2.00	mg/L							

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

Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 11:41		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.476	0.330	1.00	mg/L		10	CWW	10/18/24	1843	2689861	1
Chloride		3600	33.5	100	mg/L		500	CWW	10/18/24	0130	2689861	2
Sulfate		408	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1212	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2131	2690003	4
Arsenic		0.0991	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.115	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0397	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.186	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000714	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0359	2690003	5
Lithium		0.0583	0.00300	0.0400	mg/L	1.00	1					
Sodium		1890	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1334	2690003	6
Boron		0.669	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1513	2690003	7
Calcium		169	0.800	2.00	mg/L	1.00	10					
Magnesium		290	0.100	0.300	mg/L	1.00	10					
Potassium		85.3	0.800	3.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6860	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		284	0.725	2.00	mg/L			JW2	10/17/24	1437	2689755	9
Bicarbonate alkalinity (CaCO3)		284	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 09:55		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4070	33.5	100	mg/L		500	CWW	10/18/24	0202	2689861	1
Sulfate		533	66.5	200	mg/L		500					
Fluoride	J	0.389	0.330	1.00	mg/L		10	CWW	10/18/24	1915	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1214	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		2440	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1337	2690003	4
Boron		0.739	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1517	2690003	5
Calcium		184	0.800	2.00	mg/L	1.00	10					
Magnesium		296	0.100	0.300	mg/L	1.00	10					
Potassium		91.9	0.800	3.00	mg/L	1.00	10					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0403	2690003	6
Lithium	J	0.0330	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2135	2690003	7
Arsenic		0.0109	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.629	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.106	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.258	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000568	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00157	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7970	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		232	0.725	2.00	mg/L			JW2	10/17/24	1438	2689755	9
Bicarbonate alkalinity (CaCO3)		232	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:01		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4060	33.5	100	mg/L		500	CWW	10/18/24	0234	2689861	1
Sulfate		512	66.5	200	mg/L		500					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	10/18/24	1947	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1216	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0407	2690003	4
Lithium	J	0.0175	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2138	2690003	5
Arsenic	J	0.00730	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.597	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.67	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.224	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000794	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00174	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.571	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1521	2690003	6
Calcium		179	0.800	2.00	mg/L	1.00	10					
Magnesium		273	0.100	0.300	mg/L	1.00	10					
Potassium		74.8	0.800	3.00	mg/L	1.00	10					
Sodium		2200	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1341	2690003	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7590	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		201	0.725	2.00	mg/L			JW2	10/17/24	1440	2689755	9
Bicarbonate alkalinity (CaCO3)		201	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:46		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.423	0.330	1.00	mg/L		10	CWW	10/18/24	2154	2689861	1
Chloride		3650	33.5	100	mg/L		500	CWW	10/18/24	0306	2689861	2
Sulfate		480	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1217	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.0108	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2142	2690003	4
Barium	J	0.275	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.492	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0656	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	0410	2690003	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lithium	J	0.0317	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000382	0.000200	0.100	mg/L	1.00	1					
Sodium		2090	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1352	2690003	6
Boron		0.652	0.0260	0.0750	mg/L	1.00	5	PRB	10/26/24	1531	2690003	7
Calcium		146	0.400	1.00	mg/L	1.00	5					
Magnesium		231	0.0500	0.150	mg/L	1.00	5					
Potassium		72.4	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6800	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		221	0.725	2.00	mg/L			JW2	10/17/24	1442	2689755	9
Bicarbonate alkalinity (CaCO3)		221	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:18		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4140	33.5	100	mg/L		500	CWW	10/18/24	0337	2689861	1
Sulfate		513	66.5	200	mg/L		500					
Fluoride	J	0.411	0.330	1.00	mg/L		10	CWW	10/18/24	2226	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1222	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.0200	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2146	2690003	4
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.488	0.0330	0.100	mg/L	1.00	1					
Manganese		0.181	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00171	0.00150	0.0500	mg/L	1.00	1					
Boron		0.714	0.0260	0.0750	mg/L	1.00	5	PRB	10/26/24	1535	2690003	5
Calcium		169	0.400	1.00	mg/L	1.00	5					
Potassium		84.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	0414	2690003	6
Barium	J	0.349	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0435	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000607	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		321	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1355	2690003	7
Sodium		2250	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7580	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		240	0.725	2.00	mg/L			JW2	10/17/24	1444	2689755	9
Bicarbonate alkalinity (CaCO3)		240	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-OCT-24 10:16		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2680	33.5	100	mg/L		500	CWW	10/18/24	0409	2689861	1
Sulfate		330	66.5	200	mg/L		500					
Fluoride	J	0.587	0.330	1.00	mg/L		10	CWW	10/18/24	2258	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1224	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	0418	2690003	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lithium		0.0486	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000956	0.000200	0.100	mg/L	1.00	1					
Arsenic		0.0576	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2149	2690003	5
Barium	J	0.0734	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.477	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0943	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1710	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1359	2690003	6
Boron		0.843	0.0260	0.0750	mg/L	1.00	5	PRB	10/26/24	1538	2690003	7
Calcium		114	0.400	1.00	mg/L	1.00	5					
Magnesium		192	0.0500	0.150	mg/L	1.00	5					
Potassium		69.6	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5510	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		303	0.725	2.00	mg/L			JW2	10/17/24	1445	2689755	9
Bicarbonate alkalinity (CaCO3)		303	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 10:31		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1890	33.5	100	mg/L		500	CWW	10/18/24	0441	2689861	1
Sulfate		247	66.5	200	mg/L		500					
Fluoride	J	0.799	0.330	1.00	mg/L		10	CWW	10/18/24	2330	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1226	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		1340	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1402	2690003	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2153	2690003	5
Arsenic	J	0.00254	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0283	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		47.9	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.317	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000716	0.000200	0.100	mg/L	1.00	1					
Potassium		48.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0421	2690003	6
Lithium		0.0445	0.00300	0.0400	mg/L	1.00	1					
Boron		0.958	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1542	2690003	7
Calcium		73.7	0.800	2.00	mg/L	1.00	10					
Magnesium		111	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4180	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		215	0.725	2.00	mg/L			JW2	10/17/24	1447	2689755	9
Bicarbonate alkalinity (CaCO3)		215	0.725	2.00	mg/L							

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 12:00		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.821	0.330	1.00	mg/L		10	CWW	10/19/24	0106	2689861	1
Chloride		2150	33.5	100	mg/L		500	CWW	10/18/24	0617	2689861	2
Sulfate		250	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1227	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2157	2690003	4
Arsenic	J	0.00267	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0293	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.332	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000729	0.000200	0.100	mg/L	1.00	1					
Potassium		49.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1380	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1406	2690003	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0425	2690003	6
Lithium		0.0457	0.00300	0.0400	mg/L	1.00	1					
Boron		0.908	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1545	2690003	7
Calcium		75.1	0.800	2.00	mg/L	1.00	10					
Iron		66.5	0.330	1.00	mg/L	1.00	10					
Magnesium		113	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4190	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		216	0.725	2.00	mg/L			JW2	10/17/24	1449	2689755	9
Bicarbonate alkalinity (CaCO3)		216	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01424
Sample ID:	690725010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	16-OCT-24 08:30		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/18/24	0752	2689861	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1229	2690561	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	1551	2690003	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Magnesium	J	0.0256	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	J	0.155	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0429	2690003	4
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	10/22/24	1132	2691652	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	10/17/24	1451	2689755	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01424
Sample ID:	690725010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01424
Sample ID:	690725011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	16-OCT-24 08:41		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/18/24	0824	2689861	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1231	2690561	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0432	2690003	3
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	1555	2690003	4
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	10/22/24	1132	2691652	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	10/17/24	1452	2689755	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01424
Sample ID:	690725011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:11		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1232	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		361	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1409	2690003	2
Sodium		3310	8.00	25.0	mg/L	1.00	100					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0443	2690003	3
Lithium	J	0.00734	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1558	2690003	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.499	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		223	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		87.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Barium	J	0.512	0.000670	2.00	mg/L	1.00	1	PRB	10/25/24	2215	2690003	5
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		23.4	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0733	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 11:41		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1234	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1602	2690003	2
Boron		0.672	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		171	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		86.0	0.400	1.50	mg/L	1.00	5					
Magnesium		318	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1413	2690003	3
Sodium		1980	8.00	25.0	mg/L	1.00	100					
Arsenic		0.104	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2219	2690003	4
Barium	J	0.117	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0445	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.194	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00171	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0447	2690003	5
Lithium		0.0615	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 09:55		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1236	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1613	2690003	2
Boron		0.701	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		180	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		89.3	0.400	1.50	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0451	2690003	3
Lithium	J	0.0338	0.00300	0.0400	mg/L	1.00	1					
Arsenic	J	0.00983	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2222	2690003	4
Barium	J	0.640	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0808	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.263	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00165	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		316	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1424	2690003	5
Sodium		2420	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:01		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1237	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		283	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1427	2690003	2
Sodium		2240	8.00	25.0	mg/L	1.00	100					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0454	2690003	3
Lithium	J	0.0194	0.00300	0.0400	mg/L	1.00	1					
Arsenic	J	0.00677	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2226	2690003	4
Barium	J	0.609	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.74	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.233	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00198	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1616	2690003	5
Boron		0.542	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		175	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		72.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:46		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1329	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1620	2690003	2
Boron		0.695	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		155	0.400	1.00	mg/L	1.00	5					
Magnesium		248	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		76.3	0.400	1.50	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0458	2690003	3
Lithium	J	0.0330	0.00300	0.0400	mg/L	1.00	1					
Sodium		2220	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1431	2690003	4
Arsenic		0.0107	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2230	2690003	5
Barium	J	0.308	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.354	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0734	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00186	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:18		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1244	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0502	2690003	2
Lithium		0.0445	0.00300	0.0400	mg/L	1.00	1					
Arsenic		0.0174	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2233	2690003	3
Barium	J	0.371	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.328	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.186	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00190	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1623	2690003	4
Boron		0.726	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		170	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		84.8	0.400	1.50	mg/L	1.00	5					
Magnesium		323	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1434	2690003	5
Sodium		2270	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-OCT-24 10:16		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1245	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2237	2690003	2
Arsenic		0.0604	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0720	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.182	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0955	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000624	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.866	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1627	2690003	3
Calcium		114	0.800	2.00	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		70.0	0.800	3.00	mg/L	1.00	10					
Sodium		1670	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1438	2690003	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0505	2690003	5
Lithium		0.0490	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 10:31		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1247	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2240	2690003	2
Arsenic	J	0.00221	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0283	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		47.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.321	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000570	0.000200	0.100	mg/L	1.00	1					
Potassium		46.8	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0509	2690003	3
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Sodium		1230	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1441	2690003	4
Boron		0.884	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1630	2690003	5
Calcium		68.9	0.800	2.00	mg/L	1.00	10					
Magnesium		104	0.100	0.300	mg/L	1.00	10					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 12:00		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1249	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0513	2690003	2
Lithium		0.0447	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2244	2690003	3
Arsenic	J	0.00201	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0284	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		47.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.329	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000564	0.000200	0.100	mg/L	1.00	1					
Potassium		47.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1445	2690003	4
Boron		0.886	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1634	2690003	5
Calcium		69.0	0.800	2.00	mg/L	1.00	10					
Magnesium		103	0.100	0.300	mg/L	1.00	10					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2689861												
QC1205890344 690725008 DUP												
Chloride			1890		1880	mg/L	0.408			(0%-20%)	CWW	10/18/24 05:13
Fluoride		J	0.799	J	0.811	mg/L	1.49	^		(+/-1.00)		10/19/24 00:02
Sulfate			247		253	mg/L	2.24	^		(+/-200)		10/18/24 05:13
QC1205890341 LCS												
Chloride	5.00				4.76	mg/L			95.1	(90%-110%)		10/17/24 19:40
Fluoride	2.50				2.39	mg/L			95.5	(90%-110%)		
Sulfate	10.0				9.67	mg/L			96.7	(90%-110%)		
QC1205890340 MB												
Chloride				U	ND	mg/L						10/17/24 19:08
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205890345 690725008 PS												
Chloride	5.00		3.78		8.82	mg/L			101	(90%-110%)		10/18/24 05:45
Fluoride	2.50	J	0.0799		2.42	mg/L			93.7	(90%-110%)		10/19/24 00:34
Sulfate	10.0		0.495		10.0	mg/L			95.2	(90%-110%)		10/18/24 05:45

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
QC1205890608 LCS										
Antimony	0.0500			0.0477	mg/L		95.5	(80%-120%)	PRB	10/25/24 21:02
Arsenic	0.0500			0.0482	mg/L		96.5	(80%-120%)		
Barium	0.0500			0.0480	mg/L		96	(80%-120%)		
Beryllium	0.0500			0.0525	mg/L		105	(80%-120%)		10/26/24 03:30
Boron	0.100			0.105	mg/L		105	(80%-120%)		10/25/24 21:02
Cadmium	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Calcium	2.00			2.05	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0475	mg/L		95	(80%-120%)		
Cobalt	0.0500			0.0477	mg/L		95.4	(80%-120%)		
Iron	2.00			1.90	mg/L		95.2	(80%-120%)		
Lead	0.0500			0.0483	mg/L		96.6	(80%-120%)		
Lithium	0.0500			0.0498	mg/L		99.6	(80%-120%)		10/26/24 03:30
Magnesium	2.00			1.99	mg/L		99.6	(80%-120%)		10/25/24 21:02
Manganese	0.0500			0.0468	mg/L		93.5	(80%-120%)		

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
Molybdenum	0.0500			0.0495	mg/L		99	(80%-120%)	PRB	10/25/24 21:02
Potassium	2.00			1.94	mg/L		97.2	(80%-120%)		
Selenium	0.0500			0.0476	mg/L		95.2	(80%-120%)		
Sodium	2.00			1.98	mg/L		98.9	(80%-120%)		
Thallium	0.0500			0.0464	mg/L		92.8	(80%-120%)		
QC1205890607 MB										
Antimony			U	ND	mg/L					10/25/24 20:58
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					10/26/24 03:27
Boron			U	ND	mg/L					10/25/24 20:58
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
Iron			U	ND	mg/L				PRB	10/25/24 20:58
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					10/26/24 03:27
Magnesium			J	0.0102	mg/L					10/25/24 20:58
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205890609 690725001 MS										
Antimony	0.0500	U	ND	0.0497	mg/L		98.9	(75%-125%)		10/26/24 14:59
Arsenic	0.0500	U	ND	0.0466	mg/L		89.5	(75%-125%)		10/25/24 21:09
Barium	0.0500	J	0.531	0.588	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0470	mg/L		94.1	(75%-125%)		10/26/24 03:38

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Boron	0.100		0.494		0.579	mg/L		N/A	(75%-125%)	PRB	10/26/24 14:59
Cadmium	0.0500	U	ND		0.0447	mg/L		89.3	(75%-125%)		
Calcium	2.00		225		222	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0461	mg/L		90.9	(75%-125%)		10/25/24 21:09
Cobalt	0.0500	U	ND		0.0426	mg/L		85	(75%-125%)		
Iron	2.00		26.0		27.7	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0399	mg/L		79.8	(75%-125%)		
Lithium	0.0500	J	0.00746		0.0571	mg/L		99.2	(75%-125%)		10/26/24 03:38
Magnesium	2.00		359		344	mg/L		N/A	(75%-125%)		10/26/24 13:23
Manganese	0.0500		0.0783		0.122	mg/L		87.2	(75%-125%)		10/25/24 21:09
Molybdenum	0.0500	U	ND		0.0520	mg/L		103	(75%-125%)		10/26/24 14:59
Potassium	2.00		88.0		89.0	mg/L		N/A	(75%-125%)		
Selenium	0.0500	J	0.00195		0.0458	mg/L		87.7	(75%-125%)		10/25/24 21:09
Sodium	2.00		3300		3150	mg/L		N/A	(75%-125%)		10/26/24 13:23

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Thallium	0.0500	U	ND		0.0392	mg/L		78.3	(75%-125%)	PRB	10/25/24 21:09
QC1205890610 690725001 MSD											
Antimony	0.0500	U	ND		0.0513	mg/L	3.2	102	(0%-20%)		10/26/24 15:03
Arsenic	0.0500	U	ND		0.0456	mg/L	2.24	87.5	(0%-20%)		10/25/24 21:13
Barium	0.0500	J	0.531		0.559	mg/L	5.15	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0466	mg/L	1	93.1	(0%-20%)		10/26/24 03:41
Boron	0.100		0.494		0.592	mg/L	2.11	N/A	(0%-20%)		10/26/24 15:03
Cadmium	0.0500	U	ND		0.0457	mg/L	2.2	91.3	(0%-20%)		
Calcium	2.00		225		227	mg/L	2.58	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0435	mg/L	5.79	85.8	(0%-20%)		10/25/24 21:13
Cobalt	0.0500	U	ND		0.0408	mg/L	4.26	81.4	(0%-20%)		
Iron	2.00		26.0		25.9	mg/L	6.69	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0390	mg/L	2.27	78	(0%-20%)		
Lithium	0.0500	J	0.00746		0.0561	mg/L	1.76	97.2	(0%-20%)		10/26/24 03:41
Magnesium	2.00		359		342	mg/L	0.502	N/A	(0%-20%)		10/26/24 13:27

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Manganese	0.0500		0.0783		0.117	mg/L	4.08	77.5	(0%-20%)	PRB	10/25/24 21:13
Molybdenum	0.0500	U	ND		0.0530	mg/L	1.93	105	(0%-20%)		10/26/24 15:03
Potassium	2.00		88.0		90.4	mg/L	1.57	N/A	(0%-20%)		
Selenium	0.0500	J	0.00195		0.0470	mg/L	2.72	90.2	(0%-20%)		10/25/24 21:13
Sodium	2.00		3300		3160	mg/L	0.25	N/A	(0%-20%)		10/26/24 13:27
Thallium	0.0500	U	ND		0.0386	mg/L	1.59	77.1	(0%-20%)		10/25/24 21:13
QC1205890611 690725001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/26/24 15:10
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20
Barium		J	531	J	110	ug/L	3.08		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/26/24 03:49
Boron			98.8		22.0	ug/L	11.4		(0%-20%)		10/26/24 15:10
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			44900		9130	ug/L	1.59		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/25/24 21:20
Iron		26000		5230	ug/L	.59		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	7.46	U	ND	ug/L	N/A		(0%-20%)		10/26/24 03:49
Magnesium		3590		734	ug/L	2.1		(0%-20%)		10/26/24 13:30
Manganese		78.3		15.7	ug/L	.00255		(0%-20%)		10/25/24 21:20
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/26/24 15:10
Potassium		17600		3650	ug/L	3.76		(0%-20%)		
Selenium	J	1.95	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20
Sodium		33000		6650	ug/L	.918		(0%-20%)		10/26/24 13:30
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20
Metals Analysis-Mercury										
Batch 2690561										
QC1205891623 690725001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	10/22/24 12:06
QC1205891622 LCS										
Mercury	0.00200			0.00188	mg/L		94.1	(80%-120%)		10/22/24 12:03

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2690561										
QC1205891621 MB										
Mercury			U	ND	mg/L				JP2	10/22/24 11:58
QC1205891624 690725001 MS										
Mercury	0.00200	U ND		0.00169	mg/L		84.7	(75%-125%)		10/22/24 12:08
QC1205891625 690725001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		10/22/24 12:09
Solids Analysis										
Batch 2691652										
QC1205893611 690828009 DUP										
Total Dissolved Solids		226		228	mg/L	0.881		(0%-5%)	ES2	10/22/24 11:32
QC1205893610 LCS										
Total Dissolved Solids	300			294	mg/L		98	(95%-105%)		10/22/24 11:32
QC1205893609 MB										
Total Dissolved Solids			J	3.00	mg/L					10/22/24 11:32
Titration and Ion Analysis										
Batch 2689755										
QC1205890100 690812006 DUP										
Carbonate alkalinity (CaCO3)		U ND	U	ND	mg/L	N/A			JW2	10/17/24 14:54
QC1205890099 LCS										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L		106			10/17/24 14:32
QC1205890104 LCS										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L		101			10/17/24 14:33
QC1205890101 690812006 MS										
Alkalinity, Total as CaCO3	50.0	J 0.900		55.4	mg/L		109			10/17/24 14:55

QC Summary

Workorder: **690725**

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

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Technical Case Narrative
Georgia Power Company
SDG #: 690725

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2690003

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2690002

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

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
690725012	MCM-INW-01
690725013	MCM-MCM-06
690725014	MCM-PT-01
690725015	MCM-PT-02
690725016	MCM-PT-03
690725017	MCM-DR-01
690725018	MCM-DR-02
690725019	MCM-DR-03
690725020	MCM-AP1-FD-01
1205890607	Method Blank (MB)**ICP-MS**
1205890608	Laboratory Control Sample (LCS)
1205890611	690725001(MCM-INW-01L) Serial Dilution (SD)
1205890609	690725001(MCM-INW-01S) Matrix Spike (MS)
1205890610	690725001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03), 690725009 (MCM-AP1-FD-01), 690725012 (MCM-INW-01), 690725013 (MCM-MCM-06), 690725014 (MCM-PT-01), 690725015 (MCM-PT-02), 690725016 (MCM-PT-03), 690725017 (MCM-DR-01), 690725018 (MCM-DR-02), 690725019 (MCM-DR-03) and 690725020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 690725001 (MCM-INW-01), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725012 (MCM-INW-01), 690725013 (MCM-MCM-06), 690725014 (MCM-PT-01), 690725015 (MCM-PT-02), 690725016 (MCM-PT-03) and 690725017 (MCM-DR-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	690725									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Arsenic	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Boron	5X	10X	10X	10X	5X	5X	5X	10X	10X	5X
Cadmium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Calcium	5X	10X	10X	10X	5X	5X	5X	10X	10X	5X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	10X	1X
Magnesium	100X	10X	10X	10X	5X	100X	5X	10X	10X	100X
Molybdenum	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Potassium	5X	10X	10X	10X	5X	5X	5X	1X	1X	5X
Selenium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X

Analyte	690725							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	5X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	10X	10X	10X
Cadmium	5X	5X	5X	5X	5X	1X	1X	1X
Calcium	5X	5X	5X	5X	5X	10X	10X	10X
Magnesium	100X	100X	100X	5X	100X	10X	10X	10X
Molybdenum	5X	5X	5X	5X	5X	1X	1X	1X
Potassium	5X	5X	5X	5X	5X	10X	1X	1X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2690561

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2690560

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

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
690725012	MCM-INW-01
690725013	MCM-MCM-06
690725014	MCM-PT-01
690725015	MCM-PT-02
690725016	MCM-PT-03
690725017	MCM-DR-01
690725018	MCM-DR-02
690725019	MCM-DR-03
690725020	MCM-AP1-FD-01
1205891621	Method Blank (MB)**CVAA**
1205891622	Laboratory Control Sample (LCS)
1205891625	690725001(MCM-INW-01L) Serial Dilution (SD)
1205891623	690725001(MCM-INW-01D) Sample Duplicate (DUP)
1205891624	690725001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2689861

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

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01

690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
1205890340	Method Blank (MB)
1205890341	Laboratory Control Sample (LCS)
1205890344	690725008(MCM-DR-03) Sample Duplicate (DUP)
1205890345	690725008(MCM-DR-03) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
Samples 1205890344 (MCM-DR-03DUP), 1205890345 (MCM-DR-03PS), 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03) and 690725009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205890344 (MCM-DR-03DUP), 1205890345 (MCM-DR-03PS), 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03) and 690725009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	690725								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2691652

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

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01

690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
1205893609	Method Blank (MB)
1205893610	Laboratory Control Sample (LCS)
1205893611	690828009(NonSDG) Sample Duplicate (DUP)

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 (MB) Statement
The MB (See Below) analyzed with this SDG met the acceptance criteria. In instances where there were positive hits in the method blank, the results were evaluated and appropriately flagged on the data.

Sample	Analyte	Value
1205893609 (MB)	Total Dissolved Solids	3 between (2.38 - 10)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03) and 690725009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2689755

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

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01

690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
1205890099	Laboratory Control Sample (LCS)
1205890100	690812006(NonSDG) Sample Duplicate (DUP)
1205890101	690812006(NonSDG) Matrix Spike (MS)
1205890104	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.

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

690725

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 8-Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-INW-01	10/15/24	1411	G	Y*	WG			5	X	X	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	10/15/24	1141	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-01	10/15/24	0955	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-02	10/15/24	1001	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-03	10/15/24	1646	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-01	10/15/24	1413	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-02	10/16/24	1016	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-03	10/15/24	1031	G	Y*	WG			5	X	X	X	X	X		
MCM-AP1-FD-01	10/15/24	—	FD	Y*	WG			5	X	X	X	X	X		
MCM-AP1-FB-01	10/16/24	0830	FB	N	WQ			4	X		X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		Resolute Environmental 10/16/24	1200	1 FedEx		
2				2	10/17/24	915
3				3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241014**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 4 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page 661 of 665 DocID 690725 Rev1

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 8-Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	10/16/24	0841	EB	N	WQ			4	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/16/24	1200	1 Fed Ex	
2			2	10/17/24	945
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241014**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 4 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

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FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page 02 of 05 SDG: 60725 Rev1

Plant McManus Performance Monitoring Sampling Week 8							
Task Code: MCM-CCR-CA-20241014							
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Cl, F, SO4 (EPA 300)**	**TDS (SM2540)**	**Total Alk/Carb/Bicarb (SM2320B)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

690725

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 10/17/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2807 1147 9200

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 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: 4°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date OCT 18 2024 Page 1 of 1

List of current GEL Certifications as of 05 November 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

November 13, 2024

Re:
Work Order:

Dear :

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 31, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
693032001	MCM-INW-01	Ground Water	10/29/24 11:52	10/31/24 09:40
693032002	MCM-MCM-06	Ground Water	10/29/24 09:46	10/31/24 09:40
693032003	MCM-PT-01	Ground Water	10/29/24 15:36	10/31/24 09:40
693032004	MCM-PT-02	Ground Water	10/29/24 14:08	10/31/24 09:40
693032005	MCM-PT-03	Ground Water	10/29/24 14:33	10/31/24 09:40
693032006	MCM-DR-01	Ground Water	10/29/24 11:21	10/31/24 09:40
693032007	MCM-DR-02	Ground Water	10/29/24 16:12	10/31/24 09:40
693032008	MCM-DR-03	Ground Water	10/29/24 09:35	10/31/24 09:40
693032009	MCM-AP1-FD-01	Ground Water	10/29/24 12:00	10/31/24 09:40
693032010	MCM-AP1-FB-01	Water	10/30/24 08:17	10/31/24 09:40
693032011	MCM-AP1-EB-01	Water	10/30/24 08:21	10/31/24 09:40
693032012	MCM-INW-01	Ground Water	10/29/24 11:52	10/31/24 09:40
693032013	MCM-MCM-06	Ground Water	10/29/24 09:46	10/31/24 09:40
693032014	MCM-PT-01	Ground Water	10/29/24 15:36	10/31/24 09:40
693032015	MCM-PT-02	Ground Water	10/29/24 14:08	10/31/24 09:40
693032016	MCM-PT-03	Ground Water	10/29/24 14:33	10/31/24 09:40

693032017	MCM-DR-01	Ground Water	10/29/24 11:21	10/31/24 09:40
693032018	MCM-DR-02	Ground Water	10/29/24 16:12	10/31/24 09:40
693032019	MCM-DR-03	Ground Water	10/29/24 09:35	10/31/24 09:40
693032020	MCM-AP1-FD-01	Ground Water	10/29/24 12:00	10/31/24 09:40

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.

Prep Methods and Prep Dates

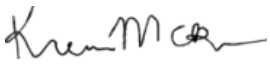
Method	Run Date ID
SW846 3005A	01-NOV-2024
SW846 7470A Prep	05-NOV-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-NOV-2024
EPA 300.0	31-OCT-2024
SW846 3005A/6020B	11-NOV-2024
SW846 3005A/6020B	13-NOV-2024
SW846 7470A	06-NOV-2024

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. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 693032 GEL Work Order: 693032

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

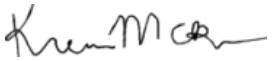
N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by 

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

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:52		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	TXT1	10/31/24	1629	2698242	1
Chloride		5310	67.0	200	mg/L		1000	TXT1	10/31/24	1803	2698242	2
Sulfate		758	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0930	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.504	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0130	2698397	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		19.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.00707	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1208	2698397	5
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.536	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	J	0.00119	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:46		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3690	33.5	100	mg/L		500	TXT1	10/31/24	2008	2698242	1
Sulfate		385	66.5	200	mg/L		500					
Fluoride	J	0.415	0.330	1.00	mg/L		10	TXT1	10/31/24	1937	2698242	2
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0938	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.117	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1234	2698397	4
Boron		0.729	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0156	2698397	5
Barium	J	0.111	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0498	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0659	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000899	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 15:36		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	TXT1	10/31/24	2142	2698242	1
Chloride		4160	33.5	100	mg/L		500	TXT1	10/31/24	2214	2698242	2
Sulfate		517	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0940	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	J	0.0166	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1237	2698397	4
Boron		0.736	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0200	2698397	5
Barium	J	0.573	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0907	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0374	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000620	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:08		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.55	0.330	1.00	mg/L		10	TXT1	10/31/24	2245	2698242	1
Chloride		3780	33.5	100	mg/L		500	TXT1	10/31/24	2317	2698242	2
Sulfate		453	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0941	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0203	2698397	4
Barium	J	0.482	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.17	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0265	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000863	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0281	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1241	2698397	5
Boron		0.636	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:33		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.984	0.330	1.00	mg/L		10	TXT1	10/31/24	2348	2698242	1
Chloride		3450	33.5	100	mg/L		500	TXT1	11/01/24	0019	2698242	2
Sulfate		437	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0946	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1245	2698397	4
Arsenic	J	0.0163	0.0100	0.0250	mg/L	1.00	5					
Boron		0.719	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Barium	J	0.238	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0207	2698397	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.729	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0396	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:21		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3910	33.5	100	mg/L		500	TXT1	11/01/24	0122	2698242	1
Sulfate		468	66.5	200	mg/L		500					
Fluoride		1.95	0.330	1.00	mg/L		10	TXT1	11/01/24	0051	2698242	2
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0948	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1248	2698397	4
Arsenic		0.0281	0.0100	0.0250	mg/L	1.00	5					
Boron		0.785	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Barium	J	0.316	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0211	2698397	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.132	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0479	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 16:12		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2720	33.5	100	mg/L		500	TXT1	11/01/24	0225	2698242	1
Sulfate		343	66.5	200	mg/L		500					
Fluoride		2.64	0.330	1.00	mg/L		10	TXT1	11/01/24	0153	2698242	2
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0950	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.0571	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0214	2698397	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.108	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1252	2698397	5
Arsenic		0.0508	0.0100	0.0250	mg/L	1.00	5					
Boron		0.924	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:35		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.689	0.330	1.00	mg/L		10	TXT1	11/01/24	0359	2698242	1
Chloride		2010	33.5	100	mg/L		500	TXT1	11/01/24	0533	2698242	2
Sulfate		258	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0951	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.0270	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0218	2698397	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		34.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0531	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1256	2698397	5
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.987	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 12:00		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	TXT1	11/01/24	0707	2698242	1
Chloride		3990	33.5	100	mg/L		500	TXT1	11/01/24	0739	2698242	2
Sulfate		486	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0953	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	11/11/24	0222	2698397	4
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.129	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0491	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1259	2698397	5
Arsenic		0.0280	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.328	0.00335	2.00	mg/L	1.00	5					
Boron		0.817	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01524
Sample ID:	693032010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-OCT-24 08:17		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	11/01/24	1249	2698242	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0954	2699944	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0225	2698397	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	11/11/24	1517	2698397	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01524
Sample ID:	693032010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01524
Sample ID:	693032011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-OCT-24 08:21		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	11/01/24	0841	2698242	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0956	2699944	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0236	2698397	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0798	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	11/11/24	1521	2698397	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01524
Sample ID:	693032011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:52		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0958	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1532	2698397	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.542	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.516	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		19.4	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:46		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0959	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	11/11/24	0244	2698397	2
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0495	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0677	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1535	2698397	3
Arsenic		0.127	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.119	0.00335	2.00	mg/L	1.00	5					
Boron		0.735	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 15:36		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1001	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1539	2698397	2
Arsenic	J	0.0177	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.644	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.753	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0402	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:08		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1006	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1543	2698397	2
Arsenic	J	0.0240	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.539	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.630	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		2.20	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0234	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:33		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1008	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	J	0.0154	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1546	2698397	2
Boron		0.703	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0255	2698397	3
Barium	J	0.225	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.381	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0376	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000280	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:21		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1009	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0256	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1550	2698397	2
Boron		0.788	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0258	2698397	3
Barium	J	0.318	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.112	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000400	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 16:12		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1011	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0676	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1554	2698397	2
Boron		0.897	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0302	2698397	3
Barium	J	0.0543	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0459	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0528	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000596	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:35		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1013	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	11/13/24	0744	2698397	2
Boron		0.951	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0305	2698397	3
Barium	J	0.0272	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		31.9	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0502	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000547	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 12:00		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1014	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/13/24	0747	2698397	2
Arsenic	J	0.0204	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.353	0.00335	2.00	mg/L	1.00	5					
Boron		0.755	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	11/11/24	0309	2698397	3
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.121	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0465	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: November 13, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2698242										
QC1205905585 693032001 DUP										
Chloride		5310		5270	mg/L	0.669		(0%-20%)	TXT1	10/31/24 18:34
Fluoride	U	ND	U	ND	mg/L	N/A				10/31/24 17:00
Sulfate		758		760	mg/L	0.329	^	(+/-400)		10/31/24 18:34
QC1205905587 693032008 DUP										
Chloride		2010		2010	mg/L	0.169		(0%-20%)		11/01/24 06:04
Fluoride	J	0.689	J	0.685	mg/L	0.582	^	(+/-1.00)		11/01/24 04:30
Sulfate		258		258	mg/L	0.0774	^	(+/-200)		11/01/24 06:04
QC1205905584 LCS										
Chloride	5.00			4.62	mg/L		92.4	(90%-110%)		10/31/24 15:57
Fluoride	2.50			2.33	mg/L		93.4	(90%-110%)		
Sulfate	10.0			9.29	mg/L		92.9	(90%-110%)		
QC1205905583 MB										
Chloride			U	ND	mg/L					10/31/24 15:26
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2698242											
QC1205905586 693032001 PS											
Chloride	5.00		5.31		10.6	mg/L		106	(90%-110%)	TXT1	10/31/24 19:06
Fluoride	2.50	U	ND		2.34	mg/L		93.7	(90%-110%)		10/31/24 17:31
Sulfate	10.0		0.758		10.1	mg/L		93.1	(90%-110%)		10/31/24 19:06
QC1205905588 693032008 PS											
Chloride	5.00		4.02		9.16	mg/L		103	(90%-110%)		11/01/24 06:36
Fluoride	2.50	J	0.0689		2.44	mg/L		94.9	(90%-110%)		11/01/24 05:02
Sulfate	10.0		0.517		9.81	mg/L		92.9	(90%-110%)		11/01/24 06:36
Metals Analysis - ICPMS											
Batch 2698397											
QC1205905876 LCS											
Antimony	0.0500				0.0457	mg/L		91.3	(80%-120%)	PRB	11/11/24 12:04
Arsenic	0.0500				0.0484	mg/L		96.8	(80%-120%)		
Barium	0.0500				0.0491	mg/L		98.2	(80%-120%)		11/11/24 01:27
Beryllium	0.0500				0.0561	mg/L		112	(80%-120%)		
Boron	0.100				0.107	mg/L		107	(80%-120%)		11/11/24 12:04
Cadmium	0.0500				0.0484	mg/L		96.8	(80%-120%)		
Chromium	0.0500				0.0488	mg/L		97.7	(80%-120%)		11/11/24 01:27

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2698397										
Cobalt	0.0500			0.0479	mg/L		95.8	(80%-120%)	PRB	11/11/24 01:27
Iron	2.00			1.94	mg/L		97.2	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.3	(80%-120%)		
Lithium	0.0500			0.0534	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0476	mg/L		95.3	(80%-120%)		11/11/24 12:04
Selenium	0.0500			0.0468	mg/L		93.7	(80%-120%)		
Thallium	0.0500			0.0458	mg/L		91.5	(80%-120%)		11/11/24 01:27
QC1205905875 MB										
Antimony			U	ND	mg/L					11/11/24 12:01
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					11/11/24 01:23
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					11/11/24 12:01
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					11/11/24 01:23

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2698397											
Cobalt				U	ND	mg/L				PRB	11/11/24 01:23
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					11/11/24 12:01
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					11/11/24 01:23
QC1205905877 693032001 MS											
Antimony	0.0500	U	ND		0.0476	mg/L		94.2	(75%-125%)		11/11/24 12:12
Arsenic	0.0500	U	ND		0.0577	mg/L		106	(75%-125%)		
Barium	0.0500	J	0.504		0.547	mg/L		N/A	(75%-125%)		11/11/24 01:34
Beryllium	0.0500	U	ND		0.0453	mg/L		90.6	(75%-125%)		
Boron	0.100		0.536		0.633	mg/L		N/A	(75%-125%)		11/11/24 12:12
Cadmium	0.0500	U	ND		0.0460	mg/L		91.9	(75%-125%)		
Chromium	0.0500	U	ND		0.0469	mg/L		92.4	(75%-125%)		11/11/24 01:34

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2698397											
Cobalt	0.0500	U	ND		0.0417	mg/L		83.2	(75%-125%)	PRB	11/11/24 01:34
Iron	2.00		19.1		20.7	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0380	mg/L		76	(75%-125%)		
Lithium	0.0500	J	0.00707		0.0592	mg/L		104	(75%-125%)		
Molybdenum	0.0500	J	0.00119		0.0540	mg/L		106	(75%-125%)		11/11/24 12:12
Selenium	0.0500	U	ND		0.0563	mg/L		103	(75%-125%)		
Thallium	0.0500	U	ND		0.0394	mg/L		78.7	(75%-125%)		11/11/24 01:34
QC1205905878 693032001 MSD											
Antimony	0.0500	U	ND		0.0476	mg/L	0.021	94.2	(0%-20%)		11/11/24 12:15
Arsenic	0.0500	U	ND		0.0554	mg/L	4.01	101	(0%-20%)		
Barium	0.0500	J	0.504		0.526	mg/L	3.84	N/A	(0%-20%)		11/11/24 01:38
Beryllium	0.0500	U	ND		0.0428	mg/L	5.79	85.5	(0%-20%)		
Boron	0.100		0.536		0.604	mg/L	4.77	N/A	(0%-20%)		11/11/24 12:15
Cadmium	0.0500	U	ND		0.0451	mg/L	1.81	90.2	(0%-20%)		
Chromium	0.0500	U	ND		0.0453	mg/L	3.46	89.3	(0%-20%)		11/11/24 01:38

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2698397											
Cobalt	0.0500	U	ND		0.0403	mg/L	3.2	80.5	(0%-20%)	PRB	11/11/24 01:38
Iron	2.00		19.1		19.9	mg/L	3.95	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0368	mg/L	3.25	73.5*	(0%-20%)		
Lithium	0.0500	J	0.00707		0.0569	mg/L	4	99.7	(0%-20%)		
Molybdenum	0.0500	J	0.00119		0.0528	mg/L	2.25	103	(0%-20%)		11/11/24 12:15
Selenium	0.0500	U	ND		0.0524	mg/L	7.05	95.3	(0%-20%)		
Thallium	0.0500	U	ND		0.0382	mg/L	3.03	76.4	(0%-20%)		11/11/24 01:38
QC1205914556 693032001 PS											
Lead	50.0	U	ND		37.8	ug/L		75.6	(75%-125%)		11/11/24 01:41
QC1205905879 693032001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		11/11/24 12:23
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	504	J	101	ug/L	.22		(0%-20%)		11/11/24 01:45
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			107		25.7	ug/L	19.7		(0%-20%)		11/11/24 12:23
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2698397										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	11/11/24 01:45
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		19100		3960	ug/L	3.36		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	7.07	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.238	U	ND	ug/L	N/A		(0%-20%)		11/11/24 12:23
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		11/11/24 01:45
Metals Analysis-Mercury										
Batch 2699944										
QC1205908617 693032001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JM13	11/06/24 09:32
QC1205908616 LCS										
Mercury 0.00200				0.00210	mg/L		105	(80%-120%)		11/06/24 09:28
QC1205908615 MB										
Mercury			U	ND	mg/L					11/06/24 09:27
QC1205908618 693032001 MS										
Mercury 0.00200	U	ND		0.00188	mg/L		92.8	(75%-125%)		11/06/24 09:33

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2699944											
QC1205908619 693032001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JM13	11/06/24	09:35

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **693032**

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

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2698397

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2698396

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

GEL Sample ID#	Client Sample Identification
693032001	MCM-INW-01
693032002	MCM-MCM-06
693032003	MCM-PT-01
693032004	MCM-PT-02
693032005	MCM-PT-03
693032006	MCM-DR-01
693032007	MCM-DR-02
693032008	MCM-DR-03
693032009	MCM-AP1-FD-01
693032010	MCM-AP1-FB-01
693032011	MCM-AP1-EB-01
693032012	MCM-INW-01
693032013	MCM-MCM-06
693032014	MCM-PT-01
693032015	MCM-PT-02
693032016	MCM-PT-03
693032017	MCM-DR-01
693032018	MCM-DR-02
693032019	MCM-DR-03
693032020	MCM-AP1-FD-01
1205905875	Method Blank (MB)**ICP-MS**
1205905876	Laboratory Control Sample (LCS)
1205905879	693032001(MCM-INW-01L) Serial Dilution (SD)
1205905877	693032001(MCM-INW-01S) Matrix Spike (MS)
1205905878	693032001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1205914556	693032001(MCM-INW-01PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205905878 (MCM-INW-01MSD)	Lead	73.5* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples 693032001 (MCM-INW-01), 693032002 (MCM-MCM-06), 693032003 (MCM-PT-01), 693032004 (MCM-PT-02), 693032005 (MCM-PT-03), 693032006 (MCM-DR-01), 693032007 (MCM-DR-02), 693032008 (MCM-DR-03), 693032009 (MCM-AP1-FD-01), 693032012 (MCM-INW-01), 693032013 (MCM-MCM-06), 693032014 (MCM-PT-01), 693032015 (MCM-PT-02), 693032016 (MCM-PT-03), 693032017 (MCM-DR-01), 693032018 (MCM-DR-02), 693032019 (MCM-DR-03) and 693032020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	693032									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	1X	1X	1X	5X	5X	5X	5X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	1X	1X	1X	1X	1X	1X	1X	1X	5X	5X
Beryllium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	1X	1X	5X	5X	5X	5X	5X	5X
Chromium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Cobalt	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Lead	1X	1X	1X	1X	1X	1X	1X	1X	5X	5X
Lithium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Molybdenum	5X	1X	1X	1X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Thallium	1X	1X	1X	1X	1X	1X	1X	1X	5X	5X

Analyte	693032							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	1X	1X	1X	1X	5X

Arsenic	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	1X	1X	1X	1X	5X
Beryllium	1X	5X	5X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	1X	1X	1X	1X	5X
Chromium	1X	5X	5X	1X	1X	1X	1X	1X
Cobalt	1X	5X	5X	1X	1X	1X	1X	1X
Iron	1X	5X	5X	1X	1X	1X	1X	1X
Lead	5X	5X	5X	1X	1X	1X	1X	5X
Lithium	1X	5X	5X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	1X	1X	1X	1X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X
Thallium	5X	5X	5X	1X	1X	1X	1X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2699944

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2699942

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

GEL Sample ID#	Client Sample Identification
693032001	MCM-INW-01
693032002	MCM-MCM-06
693032003	MCM-PT-01
693032004	MCM-PT-02
693032005	MCM-PT-03
693032006	MCM-DR-01
693032007	MCM-DR-02
693032008	MCM-DR-03
693032009	MCM-AP1-FD-01
693032010	MCM-AP1-FB-01
693032011	MCM-AP1-EB-01
693032012	MCM-INW-01
693032013	MCM-MCM-06
693032014	MCM-PT-01
693032015	MCM-PT-02
693032016	MCM-PT-03
693032017	MCM-DR-01
693032018	MCM-DR-02
693032019	MCM-DR-03
693032020	MCM-AP1-FD-01
1205908615	Method Blank (MB)**CVAA**
1205908616	Laboratory Control Sample (LCS)
1205908619	693032001(MCM-INW-01L) Serial Dilution (SD)
1205908617	693032001(MCM-INW-01D) Sample Duplicate (DUP)

1205908618	693032001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2698242

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

GEL Sample ID#	Client Sample Identification
693032001	MCM-INW-01
693032002	MCM-MCM-06
693032003	MCM-PT-01
693032004	MCM-PT-02
693032005	MCM-PT-03
693032006	MCM-DR-01
693032007	MCM-DR-02
693032008	MCM-DR-03
693032009	MCM-AP1-FD-01
693032010	MCM-AP1-FB-01
693032011	MCM-AP1-EB-01
1205905583	Method Blank (MB)
1205905584	Laboratory Control Sample (LCS)
1205905585	693032001(MCM-INW-01) Sample Duplicate (DUP)
1205905586	693032001(MCM-INW-01) Post Spike (PS)
1205905587	693032008(MCM-DR-03) Sample Duplicate (DUP)
1205905588	693032008(MCM-DR-03) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
Samples 1205905585 (MCM-INW-01DUP), 1205905586 (MCM-INW-01PS), 1205905587 (MCM-DR-03DUP), 1205905588 (MCM-DR-03PS), 693032001 (MCM-INW-01), 693032002 (MCM-MCM-06), 693032003 (MCM-PT-01), 693032004 (MCM-PT-02), 693032005 (MCM-PT-03), 693032006 (MCM-DR-01), 693032007 (MCM-DR-02), 693032008 (MCM-DR-03) and 693032009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205905585 (MCM-INW-01DUP), 1205905586 (MCM-INW-01PS), 1205905587 (MCM-DR-03DUP), 1205905588 (MCM-DR-03PS), 693032001 (MCM-INW-01), 693032002

(MCM-MCM-06), 693032003 (MCM-PT-01), 693032004 (MCM-PT-02), 693032005 (MCM-PT-03), 693032006 (MCM-DR-01), 693032007 (MCM-DR-02), 693032008 (MCM-DR-03) and 693032009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	693032								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Sample 693032010 (MCM-AP1-FB-01) was re-analyzed to verify the result.

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 693052
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 10 Week Sampling October 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert (Resolute Environmental)
Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-INW-01	10/29/24	1152	G	Y*	WG			3	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	10/29/24	0946	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-PT-01	10/29/24	1536	G	Y*	WG			3	X	X	X		
MCM-PT-02	10/29/24	1408	G	Y*	WG			3	X	X	X		
MCM-PT-03	10/29/24	1433	G	Y*	WG			3	X	X	X		
MCM-DR-01	10/29/24	1121	G	Y*	WG			3	X	X	X		
MCM-DR-02	10/29/24	1612	G	Y*	WG			3	X	X	X		
MCM-DR-03	10/29/24	0935	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	10/29/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	10/30/24	0817	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	10/30/24	0945	FedEx	10/30/24	0945
2				[signature]	10/31/24	940
3						

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241028**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 10 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
									NI	NI			
MCM-AP1-EB-01	10/30/24	0821	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
													Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Jay Siewert (Resolute Environmental)	10/30/24	0945	Erin Trent	10/31/24	0940
2						
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: __X__ Rush:_____ Specify:_____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241028**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 3 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Page 60 of 65 SDG: 60302

Plant McManus Performance Monitoring Sampling Week 10					
Task Code: MCM-CCR-CA-20241028					
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Cl, F, SO4 (EPA 300)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X
Extra 1			X	X	X
Extra 2			X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

693032

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: EG	**Date Received:** 10/31/24
Carrier and Tracking Number	Circle Applicable: ~~FedEx Express~~ FedEx Ground UPS Field Services Courier Other 2812 3357 6542

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:** 3
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR4-24 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: all containers have WG or WQ on end & ID
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 KM Date 11/4/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 13 November 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-42
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

December 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 12-Week Sampling November 2024
Work Order: 695708

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 14, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
695708001	MCM-INW-01	Ground Water	11/12/24 15:15	11/14/24 09:15
695708002	MCM-MCM-06	Ground Water	11/12/24 10:26	11/14/24 09:15
695708003	MCM-PT-01	Ground Water	11/12/24 12:54	11/14/24 09:15
695708004	MCM-PT-02	Ground Water	11/13/24 09:47	11/14/24 09:15
695708005	MCM-PT-03	Ground Water	11/12/24 12:30	11/14/24 09:15
695708006	MCM-DR-01	Ground Water	11/12/24 15:35	11/14/24 09:15
695708007	MCM-DR-02	Ground Water	11/13/24 09:58	11/14/24 09:15
695708008	MCM-DR-03	Ground Water	11/12/24 10:29	11/14/24 09:15
695708009	MCM-AP1-FD-01	Ground Water	11/12/24 12:00	11/14/24 09:15
695708010	MCM-AP1-FB-01	Water	11/13/24 11:34	11/14/24 09:15
695708011	MCM-AP1-EB-01	Water	11/13/24 11:23	11/14/24 09:15
695708012	MCM-INW-01	Ground Water	11/12/24 15:15	11/14/24 09:15
695708013	MCM-MCM-06	Ground Water	11/12/24 10:26	11/14/24 09:15
695708014	MCM-PT-01	Ground Water	11/12/24 12:54	11/14/24 09:15
695708015	MCM-PT-02	Ground Water	11/13/24 09:47	11/14/24 09:15
695708016	MCM-PT-03	Ground Water	11/12/24 12:30	11/14/24 09:15

695708017	MCM-DR-01	Ground Water	11/12/24 15:35	11/14/24 09:15
695708018	MCM-DR-02	Ground Water	11/13/24 09:58	11/14/24 09:15
695708019	MCM-DR-03	Ground Water	11/12/24 10:29	11/14/24 09:15
695708020	MCM-AP1-FD-01	Ground Water	11/12/24 12:00	11/14/24 09:15

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.

Prep Methods and Prep Dates

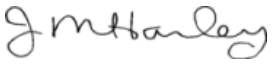
Method	Run Date ID
SW846 3005A	29-NOV-2024
SW846 7470A Prep	21-NOV-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	16-NOV-2024
EPA 300.0	17-NOV-2024
SM 2320B	14-NOV-2024
SM 2540C	19-NOV-2024
SW846 3005A/6020B	02-DEC-2024
SW846 3005A/6020B	03-DEC-2024
SW846 7470A	22-NOV-2024

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. .

Sincerely,



Joanne Harley for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 695708 GEL Work Order: 695708

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

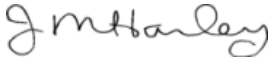
N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by 

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

Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:15		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5020	67.0	200	mg/L		1000	CWW	11/16/24	0859	2706932	1
Sulfate		730	133	400	mg/L		1000					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	11/16/24	1937	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1110	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Magnesium		348	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2001	2706223	4
Sodium		3220	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1135	2706223	5
Boron		0.587	0.0260	0.0750	mg/L	1.00	5					
Calcium		237	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		20.0	0.165	0.500	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0747	0.00500	0.0250	mg/L	1.00	5					
Potassium		97.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0420	2706223	6
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.510	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000776	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00190	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9890	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		180	0.725	2.00	mg/L			JW2	11/14/24	1341	2706069	8
Bicarbonate alkalinity (CaCO3)		180	0.725	2.00	mg/L							

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

Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:26		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4040	33.5	100	mg/L		500	CWW	11/16/24	0930	2706932	1
Sulfate		430	66.5	200	mg/L		500					
Fluoride	J	0.501	0.330	1.00	mg/L		10	CWW	11/16/24	2009	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1122	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Magnesium		333	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2012	2706223	4
Sodium		2090	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0424	2706223	5
Arsenic		0.109	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.113	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000912	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1138	2706223	6
Boron		0.770	0.0260	0.0750	mg/L	1.00	5					
Calcium		201	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0708	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.239	0.00500	0.0250	mg/L	1.00	5					
Potassium		98.7	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6250	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		310	0.725	2.00	mg/L			JW2	11/14/24	1343	2706069	8
Bicarbonate alkalinity (CaCO3)		310	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:54		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4550	33.5	100	mg/L		500	CWW	11/16/24	1002	2706932	1
Sulfate		573	66.5	200	mg/L		500					
Fluoride	J	0.373	0.330	1.00	mg/L		10	CWW	11/16/24	2041	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1124	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1157	2706223	4
Boron		0.708	0.0260	0.0750	mg/L	1.00	5					
Calcium		189	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.218	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0374	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.307	0.00500	0.0250	mg/L	1.00	5					
Potassium		92.1	0.400	1.50	mg/L	1.00	5					
Magnesium		308	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2026	2706223	5
Sodium		2390	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0449	2706223	6
Arsenic		0.0115	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.579	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000632	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7350	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		236	0.725	2.00	mg/L			JW2	11/14/24	1345	2706069	8
Bicarbonate alkalinity (CaCO3)		236	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:47		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4380	33.5	100	mg/L		500	CWW	11/16/24	1034	2706932	1
Sulfate		547	66.5	200	mg/L		500					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	11/16/24	2113	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1125	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0453	2706223	4
Arsenic	J	0.00446	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.533	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000742	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00184	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		286	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2030	2706223	5
Sodium		2340	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1159	2706223	6
Boron		0.538	0.0260	0.0750	mg/L	1.00	5					
Calcium		185	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		2.04	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0179	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.258	0.00500	0.0250	mg/L	1.00	5					
Potassium		75.0	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7410	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		199	0.725	2.00	mg/L			JW2	11/14/24	1346	2706069	8
Bicarbonate alkalinity (CaCO3)		199	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:30		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	11/16/24	2145	2706932	1
Chloride		4370	33.5	100	mg/L		500	CWW	11/16/24	1210	2706932	2
Sulfate		583	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1127	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0457	2706223	4
Arsenic		0.0106	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.312	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000473	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1202	2706223	5
Boron		0.633	0.0260	0.0750	mg/L	1.00	5					
Calcium		177	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		0.702	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0309	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0931	0.00500	0.0250	mg/L	1.00	5					
Potassium		78.9	0.400	1.50	mg/L	1.00	5					
Magnesium		277	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2034	2706223	6
Sodium		2330	16.0	50.0	mg/L	1.00	200					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6420	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		202	0.725	2.00	mg/L			JW2	11/14/24	1347	2706069	8
Bicarbonate alkalinity (CaCO3)		202	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:35		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4440	33.5	100	mg/L		500	CWW	11/16/24	1242	2706932	1
Sulfate		537	66.5	200	mg/L		500					
Fluoride	J	0.437	0.330	1.00	mg/L		10	CWW	11/16/24	2217	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1129	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1205	2706223	4
Boron		0.776	0.0260	0.0750	mg/L	1.00	5					
Calcium		181	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		0.593	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0472	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.207	0.00500	0.0250	mg/L	1.00	5					
Potassium		91.8	0.400	1.50	mg/L	1.00	5					
Magnesium		321	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2037	2706223	5
Sodium		2320	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0500	2706223	6
Arsenic		0.0205	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.344	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000719	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6870	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		251	0.725	2.00	mg/L			JW2	11/14/24	1348	2706069	8
Bicarbonate alkalinity (CaCO3)		251	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:58		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.588	0.330	1.00	mg/L		10	CWW	11/16/24	2248	2706932	1
Chloride		3140	33.5	100	mg/L		500	CWW	11/16/24	1313	2706932	2
Sulfate		383	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1130	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1208	2706223	4
Boron		0.923	0.0260	0.0750	mg/L	1.00	5					
Calcium		130	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.324	0.165	0.500	mg/L	1.00	5					
Lithium		0.0567	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.115	0.00500	0.0250	mg/L	1.00	5					
Potassium		77.2	0.400	1.50	mg/L	1.00	5					
Magnesium		225	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2041	2706223	5
Sodium		1800	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0504	2706223	6
Arsenic		0.0556	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0718	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.00105	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5780	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		301	0.725	2.00	mg/L			JW2	11/14/24	1350	2706069	8
Bicarbonate alkalinity (CaCO3)		301	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:29		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.809	0.330	1.00	mg/L		10	CWW	11/16/24	2320	2706932	1
Chloride		2150	33.5	100	mg/L		500	CWW	11/16/24	1345	2706932	2
Sulfate		261	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1132	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0507	2706223	4
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0248	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		122	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2045	2706223	5
Sodium		1430	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1210	2706223	6
Calcium		78.4	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		32.6	0.165	0.500	mg/L	1.00	5					
Lithium		0.0503	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.272	0.00500	0.0250	mg/L	1.00	5					
Potassium		57.8	0.400	1.50	mg/L	1.00	5					
Boron		0.934	0.0520	0.150	mg/L	1.00	10	PRB	12/03/24	1227	2706223	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4070	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		268	0.725	2.00	mg/L			JW2	11/14/24	1351	2706069	9
Bicarbonate alkalinity (CaCO3)		268	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:00		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3990	33.5	100	mg/L		500	CWW	11/16/24	1521	2706932	1
Sulfate		410	66.5	200	mg/L		500					
Fluoride	J	0.497	0.330	1.00	mg/L		10	CWW	11/17/24	0231	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1137	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1213	2706223	4
Boron		0.755	0.0260	0.0750	mg/L	1.00	5					
Calcium		196	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0709	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.230	0.00500	0.0250	mg/L	1.00	5					
Potassium		94.9	0.400	1.50	mg/L	1.00	5					
Magnesium		311	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2056	2706223	5
Sodium		1980	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0511	2706223	6
Arsenic		0.108	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.108	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000789	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6670	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		300	0.725	2.00	mg/L			JW2	11/14/24	1352	2706069	8
Bicarbonate alkalinity (CaCO3)		300	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01724
Sample ID:	695708010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	13-NOV-24 11:34		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	11/16/24	1553	2706932	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1138	2709282	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0515	2706223	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	12/03/24	1216	2706223	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	J	0.0123	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	J	0.106	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	11/19/24	1433	2708088	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	11/14/24	1354	2706069	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01724
Sample ID:	695708010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01724
Sample ID:	695708011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	13-NOV-24 11:23		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	11/16/24	1624	2706932	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1140	2709282	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	12/03/24	1218	2706223	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	J	0.104	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0518	2706223	4
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	11/19/24	1519	2708090	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	11/14/24	1355	2706069	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01724
Sample ID:	695708011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:15		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1142	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0529	2706223	2
Arsenic	J	0.00239	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.490	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000500	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		340	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2059	2706223	3
Sodium		3140	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1230	2706223	4
Boron		0.568	0.0260	0.0750	mg/L	1.00	5					
Calcium		224	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		18.4	0.165	0.500	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0720	0.00500	0.0250	mg/L	1.00	5					
Potassium		91.1	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:26		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1143	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0533	2706223	2
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.114	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000273	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		336	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2103	2706223	3
Sodium		2150	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1232	2706223	4
Boron		0.764	0.0260	0.0750	mg/L	1.00	5					
Calcium		198	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0719	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.238	0.00500	0.0250	mg/L	1.00	5					
Potassium		96.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

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

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Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:54		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1145	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1235	2706223	2
Boron		0.739	0.0260	0.0750	mg/L	1.00	5					
Calcium		186	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0363	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.308	0.00500	0.0250	mg/L	1.00	5					
Potassium		92.2	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0537	2706223	3
Arsenic	J	0.00987	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.588	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000366	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00176	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		308	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2107	2706223	4
Sodium		2380	16.0	50.0	mg/L	1.00	200					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:47		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1147	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		291	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2110	2706223	2
Sodium		2360	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1238	2706223	3
Boron		0.551	0.0260	0.0750	mg/L	1.00	5					
Calcium		188	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		1.95	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0176	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.261	0.00500	0.0250	mg/L	1.00	5					
Potassium		75.7	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0540	2706223	4
Arsenic	J	0.00409	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.563	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00181	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:30		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1148	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0544	2706223	2
Arsenic	J	0.00943	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.311	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000320	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00181	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		309	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2114	2706223	3
Sodium		2570	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1240	2706223	4
Boron		0.660	0.0260	0.0750	mg/L	1.00	5					
Calcium		183	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.453	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0320	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0959	0.00500	0.0250	mg/L	1.00	5					
Potassium		82.1	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:35		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1150	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		327	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2118	2706223	2
Sodium		2400	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0548	2706223	3
Arsenic		0.0154	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.351	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000371	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00161	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1243	2706223	4
Boron		0.865	0.0260	0.0750	mg/L	1.00	5					
Calcium		201	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.242	0.165	0.500	mg/L	1.00	5					
Lithium		0.0537	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.225	0.00500	0.0250	mg/L	1.00	5					
Potassium		100	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:58		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1152	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		236	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2121	2706223	2
Sodium		1900	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1246	2706223	3
Boron		0.907	0.0260	0.0750	mg/L	1.00	5					
Calcium		132	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0570	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.114	0.00500	0.0250	mg/L	1.00	5					
Potassium		78.5	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0551	2706223	4
Arsenic		0.0568	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0725	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000571	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:29		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1156	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1249	2706223	2
Calcium		78.8	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		31.1	0.165	0.500	mg/L	1.00	5					
Lithium		0.0500	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.270	0.00500	0.0250	mg/L	1.00	5					
Potassium		58.0	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0555	2706223	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0251	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000500	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.948	0.0260	0.0750	mg/L	1.00	5	PRB	12/02/24	1953	2706223	4
Magnesium		125	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2125	2706223	5
Sodium		1440	16.0	50.0	mg/L	1.00	200					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:00		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1158	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1251	2706223	2
Boron		0.743	0.0260	0.0750	mg/L	1.00	5					
Calcium		186	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0655	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.221	0.00500	0.0250	mg/L	1.00	5					
Potassium		90.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0559	2706223	3
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.110	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000284	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00155	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		317	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2129	2706223	4
Sodium		2020	16.0	50.0	mg/L	1.00	200					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: December 3, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2706932												
QC1205921931 695708008 DUP												
Chloride			2150		2150	mg/L	0.216			(0%-20%)	CWW	11/16/24 14:17
Fluoride		J	0.809	J	0.834	mg/L	3.04	^		(+/-1.00)		11/16/24 23:52
Sulfate			261		276	mg/L	5.33	^		(+/-200)		11/16/24 14:17
QC1205921928 LCS												
Chloride	5.00				4.77	mg/L			95.3	(90%-110%)		11/16/24 05:16
Fluoride	2.50				2.42	mg/L			96.8	(90%-110%)		
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)		
QC1205921927 MB												
Chloride				U	ND	mg/L						11/16/24 04:44
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205921932 695708008 PS												
Chloride	5.00		4.29		9.39	mg/L			102	(90%-110%)		11/16/24 14:49
Fluoride	2.50	J	0.0809		2.49	mg/L			96.3	(90%-110%)		11/17/24 00:24
Sulfate	10.0		0.523		10.1	mg/L			95.8	(90%-110%)		11/16/24 14:49

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
QC1205920659 LCS										
Antimony	0.0500			0.0458	mg/L		91.5	(80%-120%)	PRB	12/02/24 04:16
Arsenic	0.0500			0.0510	mg/L		102	(80%-120%)		12/03/24 11:32
Barium	0.0500			0.0453	mg/L		90.7	(80%-120%)		12/02/24 04:16
Beryllium	0.0500			0.0513	mg/L		103	(80%-120%)		12/03/24 11:32
Boron	0.100			0.0976	mg/L		97.6	(80%-120%)		
Cadmium	0.0500			0.0493	mg/L		98.6	(80%-120%)		12/02/24 04:16
Calcium	2.00			2.15	mg/L		107	(80%-120%)		12/03/24 11:32
Chromium	0.0500			0.0517	mg/L		103	(80%-120%)		
Cobalt	0.0500			0.0509	mg/L		102	(80%-120%)		
Iron	2.00			2.05	mg/L		103	(80%-120%)		
Lead	0.0500			0.0460	mg/L		92	(80%-120%)		12/02/24 04:16
Lithium	0.0500			0.0508	mg/L		102	(80%-120%)		12/03/24 11:32
Magnesium	2.00			2.05	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0504	mg/L		101	(80%-120%)		

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
Molybdenum	0.0500			0.0475	mg/L		95	(80%-120%)	PRB	12/02/24 04:16
Potassium	2.00			2.04	mg/L		102	(80%-120%)		12/03/24 11:32
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)		
Sodium	2.00			1.98	mg/L		99	(80%-120%)		
Thallium	0.0500			0.0433	mg/L		86.6	(80%-120%)		12/02/24 04:16
QC1205920658 MB										
Antimony			U	ND	mg/L					12/02/24 04:13
Arsenic			U	ND	mg/L					12/03/24 11:30
Barium			U	ND	mg/L					12/02/24 04:13
Beryllium			U	ND	mg/L					12/03/24 11:30
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					12/02/24 04:13
Calcium			U	ND	mg/L					12/03/24 11:30
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
Iron			U	ND	mg/L				PRB	12/03/24 11:30
Lead			U	ND	mg/L					12/02/24 04:13
Lithium			U	ND	mg/L					12/03/24 11:30
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			J	0.000277	mg/L					12/02/24 04:13
Potassium			U	ND	mg/L					12/03/24 11:30
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					12/02/24 04:13
QC1205920660 695708002 MS										
Antimony	0.0500	U	ND	0.0463	mg/L		92.3	(75%-125%)		12/02/24 04:27
Arsenic	0.0500		0.109	0.152	mg/L		85.9	(75%-125%)		
Barium	0.0500	J	0.113	0.158	mg/L		89.8	(75%-125%)		
Beryllium	0.0500	U	ND	0.0596	mg/L		119	(75%-125%)		12/03/24 11:41

QC Summary

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2706223											
Boron	0.100		0.770		0.900	mg/L		N/A	(75%-125%)	PRB	12/03/24 11:41
Cadmium	0.0500	U	ND		0.0432	mg/L		86.3	(75%-125%)		12/02/24 04:27
Calcium	2.00		201		205	mg/L		N/A	(75%-125%)		12/03/24 11:41
Chromium	0.0500	U	ND		0.0552	mg/L		108	(75%-125%)		
Cobalt	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Iron	2.00	U	ND		2.18	mg/L		104	(75%-125%)		
Lead	0.0500	U	ND		0.0398	mg/L		79.7	(75%-125%)		12/02/24 04:27
Lithium	0.0500		0.0708		0.131	mg/L		120	(75%-125%)		12/03/24 11:41
Magnesium	2.00		333		335	mg/L		N/A	(75%-125%)		12/02/24 20:15
Manganese	0.0500		0.239		0.296	mg/L		N/A	(75%-125%)		12/03/24 11:41
Molybdenum	0.0500	J	0.000912		0.0550	mg/L		108	(75%-125%)		12/02/24 04:27
Potassium	2.00		98.7		102	mg/L		N/A	(75%-125%)		12/03/24 11:41
Selenium	0.0500	U	ND		0.0196	mg/L		36.7*	(75%-125%)		12/02/24 04:27
Sodium	2.00		2090		2100	mg/L		N/A	(75%-125%)		12/02/24 20:15

QC Summary

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2706223											
Thallium	0.0500	U	ND		0.0390	mg/L		77.9	(75%-125%)	PRB	12/02/24 04:27
QC1205920661 695708002 MSD											
Antimony	0.0500	U	ND		0.0446	mg/L	3.82	88.8	(0%-20%)		12/02/24 04:31
Arsenic	0.0500		0.109		0.148	mg/L	2.89	77.3	(0%-20%)		
Barium	0.0500	J	0.113		0.155	mg/L	2.11	83.2	(0%-20%)		
Beryllium	0.0500	U	ND		0.0560	mg/L	6.14	112	(0%-20%)		12/03/24 11:43
Boron	0.100		0.770		0.866	mg/L	3.83	N/A	(0%-20%)		
Cadmium	0.0500	U	ND		0.0426	mg/L	1.35	85.1	(0%-20%)		12/02/24 04:31
Calcium	2.00		201		198	mg/L	3.26	N/A	(0%-20%)		12/03/24 11:43
Chromium	0.0500	U	ND		0.0530	mg/L	4.06	104	(0%-20%)		
Cobalt	0.0500	U	ND		0.0512	mg/L	3.62	102	(0%-20%)		
Iron	2.00	U	ND		2.12	mg/L	2.72	101	(0%-20%)		
Lead	0.0500	U	ND		0.0396	mg/L	0.705	79.1	(0%-20%)		12/02/24 04:31
Lithium	0.0500		0.0708		0.127	mg/L	3.35	112	(0%-20%)		12/03/24 11:43
Magnesium	2.00		333		312	mg/L	7.17	N/A	(0%-20%)		12/02/24 20:19

QC Summary

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2706223											
Manganese	0.0500		0.239		0.287	mg/L	2.86	N/A	(0%-20%)	PRB	12/03/24 11:43
Molybdenum	0.0500	J	0.000912		0.0529	mg/L	3.85	104	(0%-20%)		12/02/24 04:31
Potassium	2.00		98.7		98.3	mg/L	3.34	N/A	(0%-20%)		12/03/24 11:43
Selenium	0.0500	U	ND		0.0197	mg/L	0.515	36.9*	(0%-20%)		12/02/24 04:31
Sodium	2.00		2090		1960	mg/L	7.11	N/A	(0%-20%)		12/02/24 20:19
Thallium	0.0500	U	ND		0.0381	mg/L	2.29	76.1	(0%-20%)		12/02/24 04:31
QC1205935507 695708002 PS											
Selenium	50.0	U	ND		42.8	ug/L		83.2	(75%-125%)		12/02/24 04:35
QC1205920662 695708002 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Arsenic			109		25.1	ug/L	14.9		(0%-20%)		
Barium		J	113	J	22.5	ug/L	.675		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		12/03/24 11:49
Boron			154		31.9	ug/L	3.47		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Calcium			40200		7970	ug/L	.84		(0%-20%)		12/03/24 11:49

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	12/03/24 11:49
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Lithium		14.2	U	ND	ug/L	N/A		(0%-20%)		12/03/24 11:49
Magnesium		1660		334	ug/L	.366		(0%-20%)		12/02/24 20:23
Manganese		47.7		9.52	ug/L	.262		(0%-20%)		12/03/24 11:49
Molybdenum	J	0.912	J	0.319	ug/L	74.9		(0%-20%)		12/02/24 04:38
Potassium		19700		3860	ug/L	2.12		(0%-20%)		12/03/24 11:49
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Sodium		10500		2160	ug/L	3.42		(0%-20%)		12/02/24 20:23
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Metals Analysis-Mercury										
Batch 2709282										
QC1205926484 695708001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	11/22/24 11:12

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2709282										
QC1205926483 LCS										
Mercury	0.00200			0.00180	mg/L		90.2	(80%-120%)	JP2	11/22/24 11:09
QC1205926482 MB										
Mercury			U	ND	mg/L					11/22/24 11:07
QC1205926485 695708001 MS										
Mercury	0.00200 U	ND		0.00157	mg/L		78.4	(75%-125%)		11/22/24 11:17
QC1205926486 695708001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		11/22/24 11:19
Solids Analysis										
Batch 2708083										
QC1205924326 695846002 DUP										
Total Dissolved Solids		383		386	mg/L	0.78		(0%-5%)	KLP1	11/19/24 13:44
QC1205924324 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		11/19/24 13:44
QC1205924323 MB										
Total Dissolved Solids			U	ND	mg/L					11/19/24 13:44
Batch 2708088										
QC1205924332 695554001 DUP										
Total Dissolved Solids		237		236	mg/L	0.423		(0%-5%)	KLP1	11/19/24 14:33
QC1205924331 LCS										
Total Dissolved Solids	300			303	mg/L		101	(95%-105%)		11/19/24 14:33
QC1205924330 MB										
Total Dissolved Solids			U	ND	mg/L					11/19/24 14:33

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2708090										
QC1205924339 695760006 DUP										
Total Dissolved Solids		224		224	mg/L	0		(0%-5%)	KLP1	11/19/24 15:19
QC1205924338 LCS										
Total Dissolved Solids	300			298	mg/L		99.3	(95%-105%)		11/19/24 15:19
QC1205924337 MB										
Total Dissolved Solids			U	ND	mg/L					11/19/24 15:19
Titration and Ion Analysis										
Batch 2706069										
QC1205920302 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106		JW2	11/14/24 13:37
QC1205920305 LCS										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106			11/14/24 13:39
QC1205920306 LCSD										
Alkalinity, Total as CaCO3	50.0			53.4	mg/L	0.563	107			11/14/24 13:38
QC1205920307 LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	3.19	103			11/14/24 13:40

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **695708**

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

R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Technical Case Narrative
Georgia Power Company
SDG #: 695708

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2706223

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2706220

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

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
695708012	MCM-INW-01
695708013	MCM-MCM-06
695708014	MCM-PT-01
695708015	MCM-PT-02
695708016	MCM-PT-03
695708017	MCM-DR-01
695708018	MCM-DR-02
695708019	MCM-DR-03
695708020	MCM-AP1-FD-01
1205920658	Method Blank (MB)**ICP-MS**
1205920659	Laboratory Control Sample (LCS)
1205920662	695708002(MCM-MCM-06L) Serial Dilution (SD)
1205920660	695708002(MCM-MCM-06S) Matrix Spike (MS)
1205920661	695708002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205935507	695708002(MCM-MCM-06PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205920660 (MCM-MCM-06MS)	Selenium	36.7* (75%-125%)
1205920661 (MCM-MCM-06MSD)	Selenium	36.9* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03), 695708009 (MCM-AP1-FD-01), 695708012 (MCM-INW-01), 695708013 (MCM-MCM-06), 695708014 (MCM-PT-01), 695708015 (MCM-PT-02), 695708016 (MCM-PT-03), 695708017 (MCM-DR-01), 695708018 (MCM-DR-02), 695708019 (MCM-DR-03) and 695708020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03), 695708009 (MCM-AP1-FD-01), 695708012 (MCM-INW-01), 695708013 (MCM-MCM-06), 695708014 (MCM-PT-01), 695708015 (MCM-PT-02), 695708016 (MCM-PT-03), 695708017 (MCM-DR-01), 695708018 (MCM-DR-02), 695708019 (MCM-DR-03) and 695708020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	695708									
	001	002	003	004	005	006	007	008	009	012
Beryllium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	10X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cobalt	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Lithium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	200X	200X	200X	200X	200X	200X	200X	200X	200X	200X
Manganese	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	200X	200X	200X	200X	200X	200X	200X	200X	200X	200X

Analyte	695708							
	013	014	015	016	017	018	019	020
Beryllium	5X	5X	5X	5X	5X	5X	5X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	5X	5X	5X	5X	5X	5X	5X
Cobalt	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X	5X	5X	5X
Lithium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	200X	200X	200X	200X	200X	200X	200X	200X
Manganese	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	200X	200X	200X	200X	200X	200X	200X	200X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2709282

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2709279

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

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
695708012	MCM-INW-01
695708013	MCM-MCM-06
695708014	MCM-PT-01
695708015	MCM-PT-02
695708016	MCM-PT-03
695708017	MCM-DR-01
695708018	MCM-DR-02
695708019	MCM-DR-03
695708020	MCM-AP1-FD-01
1205926482	Method Blank (MB)**CVAA**
1205926483	Laboratory Control Sample (LCS)
1205926486	695708001(MCM-INW-01L) Serial Dilution (SD)
1205926484	695708001(MCM-INW-01D) Sample Duplicate (DUP)

1205926485	695708001(MCM-INW-01S) 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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2706932

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

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
1205921927	Method Blank (MB)
1205921928	Laboratory Control Sample (LCS)
1205921931	695708008(MCM-DR-03) Sample Duplicate (DUP)
1205921932	695708008(MCM-DR-03) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
Samples 1205921931 (MCM-DR-03DUP), 1205921932 (MCM-DR-03PS), 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03) and 695708009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205921931 (MCM-DR-03DUP), 1205921932 (MCM-DR-03PS), 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03) and 695708009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring

over range target analyte concentrations into the linear calibration range.

Analyte	695708								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2708083

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

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708005	MCM-PT-03
1205924323	Method Blank (MB)
1205924324	Laboratory Control Sample (LCS)
1205924326	695846002(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01) and 695708005 (MCM-PT-03).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2708088

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

GEL Sample ID#	Client Sample Identification
695708004	MCM-PT-02
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01

695708010	MCM-AP1-FB-01
1205924330	Method Blank (MB)
1205924331	Laboratory Control Sample (LCS)
1205924332	695554001(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 695708004 (MCM-PT-02), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03) and 695708009 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2708090

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

GEL Sample ID#	Client Sample Identification
695708011	MCM-AP1-EB-01
1205924337	Method Blank (MB)
1205924338	Laboratory Control Sample (LCS)
1205924339	695760006(NonSDG) Sample Duplicate (DUP)

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: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2706069

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

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01

695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
1205920302	Laboratory Control Sample (LCS)
1205920305	Laboratory Control Sample (LCS)
1205920306	Laboratory Control Sample Duplicate (LCSD)
1205920307	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

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

695708

Page 03 of 67 SDG: 695708

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 12-Week Sampling November 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Will Laaker (Resolute Environmental) Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
									NI	NI				
MCM-INW-01	11/12/24	1515	G	Y*	WG				X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	11/12/24	1026	G	Y*	WG				X	X	X	X	X	
MCM-PT-01	11/12/24	1254	G	Y*	WG				X	X	X	X	X	
MCM-PT-02	11/13/24	0947	G	Y*	WG				X	X	X	X	X	
MCM-PT-03	11/12/24	1230	G	Y*	WG				X	X	X	X	X	
MCM-DR-01	11/12/24	1535	G	Y*	WG				X	X	X	X	X	
MCM-DR-02	11/13/24	0958	G	Y*	WG				X	X	X	X	X	
MCM-DR-03	11/12/24	1029	G	Y*	WG				X	X	X	X	X	
MCM-AP1-FD-01	11/12/24	—	FD	Y*	WG				X	X	X	X	X	
MCM-AP1-FB-01	11/13/24	1134	FB	N	WQ				X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 11/13/24	1330	1 Fedex	11/13/24	1330
2			2		11/14/24 915
3			3		

TAT Requested: **Normal: X** **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241111** 238570

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 12-Week Sampling November 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Will Laaker (Resolute Environmental) Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	11/13/24	1123	EB	N	WQ				X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	11/13/24	1330		11/14/24	905
2						
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241111** 238570

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Plant McManus Performance Monitoring Sampling Week 12							
Task Code: MCM-CCR-CA-20241111							
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Cl, F, SO4 (EPA 300)**	**TDS (SM2540)**	**Total Alk/Carb/Bicarb (SM2320B)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

695708

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 11/14/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2817 6154 4285

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: 1 c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date NOV 15 2024 Page 1 of 1

List of current GEL Certifications as of 03 December 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-43
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Arcadis

IT^2 FILE # 240425

2024-12-16

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-12-16

FedEx: 278931610986

ISOTOPE TRACER TECHNOLOGIES INC

Client: Arcadis
Address: 1003 Weatherstone Pkwy Ste 320
Woodstock GA 30189
Att.: Kathryn Farris
E-mail: Kathryn.Farris@arcadis.com
Phone: 470-895-0653

File Number: 240425
Project #: MCM-CCR-CA-20240826
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time			VSMOW		
1	DR-03	2024-08-27	10:22	172358	X	2647.3	27.6	1 x 60mL P.Bottle
2	ZNW-01	2024-08-27	12:12	172359	X	2330.5	2.9	1 x 60mL P.Bottle
3	PT-03	2024-08-27	15:10	172360	X	399.2	1.5	1 x 60mL P.Bottle
4	DR-02	2024-08-27	16:30	172361	X	8.8	0.2	1 x 60mL P.Bottle
5	FD-01	2024-08-27		172362	X	2665.1	22.0	1 x 60mL P.Bottle
6	PT-02	2024-08-28	10:12	172363	X	1.1	0.4	1 x 60mL P.Bottle
7	DR-01	2024-08-28	11:46	172364	X	8.2	0.5	1 x 60mL P.Bottle
8	PT-01	2024-08-28	14:10	172365	X	10.6	0.5	1 x 60mL P.Bottle
9	MCM-06	2024-08-28	15:34	172366	X	11.1	0.4	1 x 60mL P.Bottle

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested (regular)		
ASAP	(Rush)		

COMPANY NAME	Rockside Environmental
OFFICE ADDRESS	1900 Cochrane Pky Wexford, PA 15090
PROJECT MANAGER:	Kathryn Farris
PROJECT #	
PHONE #	412-835-0663
FAX #	
PO #	

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____ SELECT: PDF _____ DIGITAL ____ BOTH _X__

EMAIL 1 EMAIL 2

SAMPLING INFORMATION

| Sample Date/Time | | TYPE | | MATRIX | | |

Plant McManus Performance Monitoring Sampling Week 1			
Task Code: MCM-CCR-CA-20240826			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X
Extra 2			

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240429

2024-11-08

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-11-08

FedEx: 778290368623

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: stephenson@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
Phone: 470-895-0653

File Number: 240429
Project #: MCM-CCR-CA-20240902
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-09-05	11:46	172515	X	369.4	0.3	1 x 60mL P.Bottle
2	MCM-MCM-06	2024-09-05	15:38	172516	X	36.6	1.0	1 x 60mL P.Bottle
3	MCM-PT-01	2024-09-05	9:25	172517	X	5.4	0.2	1 x 60mL P.Bottle
4	MCM-PT-02	2024-09-05	14:17	172518	X	3.6	0.2	1 x 60mL P.Bottle
5	MCM-PT-03	2024-09-05	14:22	172519	X	29.2	0.3	1 x 60mL P.Bottle
6	MCM-DR-01	2024-09-05	11:39	172520	X	7.4	0.3	1 x 60mL P.Bottle
7	MCM-DR-02	2024-09-05	15:54	172521	X	6.6	0.1	1 x 60mL P.Bottle
8	MCM-DR-03	2024-09-05	9:22	172522	X	1053.5	4.1	1 x 60mL P.Bottle
9	MCM-AP1-FD-01	2024-09-05		172523	X	11.3	0.4	1 x 60mL P.Bottle

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC.

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested (regular)		
ASAP	(Rush)		

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 2-Week Sampling September 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX					ANALYSIS REQUEST											PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)	
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium											COMMENTS	LAB ID
2024-09-05	1146		X	X			MCM-INW-01	1	X												
2024-09-05	1510		X	X			MCM-MCM-06	1	X												
2024-09-05	0925		X	X			MCM-PT-01	1	X												
2024-09-05	1417		X	X			MCM-PT-02	1	X												
2024-09-05	1422		X	X			MCM-PT-03	1	X												
2024-09-05	1139		X	X			MCM-DR-01	1	X												
2024-09-05	1554		X	X			MCM-DR-02	1	X												
2024-09-05	0927		X	X			MCM-DR-03	1	X												
2024-09-05	—		X	X			MCM-AP1-FD-01	1	X												

SPECIAL INSTRUCTIONS/COMMENTS	THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)	SAMPLE CONDITION
Task Code: MCM-CCR-CA-20240902	Are any samples taken from a regulated DW System? Yes ___ No X If yes, an authorized drinking water COC MUST be used for this submission Is the water sampled intended to be potable for human consumption? Yes ___ No X	__ FROZEN __ COLD __ COOLING INITIATED __ AMBIENT

SAMPLED BY: Kevin Stephenson, Natalie Piparo	DATE & TIME	RECEIVED BY:	DATE & TIME	Observations
RELINQUISHED BY: via FedEx	DATE & TIME 9/4/24 @ 0904	RECEIVED AT LAB BY:	DATE & TIME 2024-09-10	

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 2			
Task Code: MCM-CCR-CA-20240902			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X
Extra 2			

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240431

2024-11-08

Approved by:

Orfan Shouakar-Stash, PhD
Director
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Website: www.it2isotopes.com

Reported: 2024-11-08

FedEx: 279436261226

Client: Southern Company
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E-mail: kevin.stephenson@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
E-mail: 4e97155d.arcadis.com@amer.teams.ms
Phone: (404) 506-7116

File Number: **240431**
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-09-12	12:10	172530	X	192.6	1.0	1x50mL Falcon Tube
2	MCM-MCM-06	2024-09-12	10:12	172531	X	5.3	0.3	1x50mL Falcon Tube
3	MCM-PT-01	2024-09-12	11:57	172532	X	8.8	0.4	1x50mL Falcon Tube
4	MCM-PT-02	2024-09-12	14:31	172533	X	7.7	0.2	1x50mL Falcon Tube
5	MCM-PT-03	2024-09-12	13:50	172534	X	42.3	0.4	1x50mL Falcon Tube
6	MCM-DR-01	2024-09-12	13:24	172535	X	9.8	0.5	1x50mL Falcon Tube
7	MCM-DR-02	2024-09-12	15:08	172536	X	2.4	0.2	1x50mL Falcon Tube
8	MCM-DR-03	2024-09-12	10:47	172537	X	564.7	8.7	1x50mL Falcon Tube
9	MCM-AP1-FD-01	2024-09-12	\	172538	X	3.6	0.2	1x50mL Falcon Tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
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ISOTOPE TRACER TECHNOLOGIES INC.

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested (regular)		
ASAP	(Rush)		

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 2-Week Sampling September 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX					ANALYSIS REQUEST											PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)	
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium											COMMENTS	LAB ID
2024-09-05	1146		X	X			MCM-INW-01	1	X												
2024-09-05	1510		X	X			MCM-MCM-06	1	X												
2024-09-05	0925		X	X			MCM-PT-01	1	X												
2024-09-05	1417		X	X			MCM-PT-02	1	X												
2024-09-05	1422		X	X			MCM-PT-03	1	X												
2024-09-05	1139		X	X			MCM-DR-01	1	X												
2024-09-05	1554		X	X			MCM-DR-02	1	X												
2024-09-05	0927		X	X			MCM-DR-03	1	X												
2024-09-05	—		X	X			MCM-AP1-FD-01	1	X												

SPECIAL INSTRUCTIONS/COMMENTS	THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)	SAMPLE CONDITION
Task Code: MCM-CCR-CA-20240902	Are any samples taken from a regulated DW System? Yes ___ No X If yes, an authorized drinking water COC MUST be used for this submission Is the water sampled intended to be potable for human consumption? Yes ___ No X	__ FROZEN __ COLD __ COOLING INITIATED __ AMBIENT

SAMPLED BY: Kevin Stephenson, Natalie Piparo	DATE & TIME	RECEIVED BY:	DATE & TIME	Observations
RELINQUISHED BY: via FedEx	DATE & TIME 9/4/24 @ 0904	RECEIVED AT LAB BY:	DATE & TIME 2024-09-10	

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 2			
Task Code: MCM-CCR-CA-20240902			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X
Extra 2			

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240439

2024-11-08

Approved by:

Orfan Shouakar-Stash, PhD
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Tel: 519-886-5555 | Fax: 519-886-5575
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Website: www.it2isotopes.com

Reported: 2024-11-08

FedEx: 279646510490

ISOTOPE TRACER TECHNOLOGIES INC

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E-mail: Kathryn.Farris@arcadis.com
Phone: (404) 506-7116

File Number: **240439**
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-09-17	12:22	172680	X	124.7	0.9	1X50mL falcon tube
2	MCM-MCM-06	2024-09-17	11:56	172681	X	3.9	0.5	1X50mL falcon tube
3	MCM-PT-01	2024-09-17	10:02	172682	X	6.8	0.3	1X50mL falcon tube
4	MCM-PT-02	2024-09-17	15:37	172683	X	5.0	0.3	1X50mL falcon tube
5	MCM-PT-03	2024-09-17	15:50	172684	X	13.8	0.3	1X50mL falcon tube
6	MCM-DR-01	2024-09-18	11:07	172685	X	7.5	0.3	1X50mL falcon tube
7	MCM-DR-02	2024-09-18	9:58	172686	X	6.4	0.2	1X50mL falcon tube
8	MCM-DR-03	2024-09-17	10:35	172687	X	421.1	0.5	1X50mL falcon tube
9	MCM-AP1-FD-01	2024-09-17	\	172688	X	0.7	0.2	1X50mL falcon tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
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ISOTOPE TRACER

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 4-Week Sampling September 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

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SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <— (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX													
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium									COMMENTS	LAB ID
2024-09-17	1222		X	X			MCM-INW-01	1	X										
2024-09-17	1156		X	X			MCM-MCM-06	1	X										
2024-09-17	1002		X	X			MCM-PT-01	1	X										
2024-09-17	1537		X	X			MCM-PT-02	1	X										
2024-09-17	1550		X	X			MCM-PT-03	1	X										
2024-09-17	1107		X	X			MCM-DR-01	1	X										
2024-09-17	0954		X	X			MCM-DR-02	1	X										
2024-09-17	1035		X	X			MCM-DR-03	1	X										
2024-09-17	—		X	X			MCM-AP1-FD-01	1	X										

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20240916

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.

Is the water sampled intended to be potable for human consumption? Yes ___ No ___

SAMPLE CONDITION

__ FROZEN
__ COLD
__ COOLING INITIATED
__ AMBIENT

Observations

SAMPLED BY: Jay Siewert, Natalie Piparo, William Laaker, Kevin Step	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 9/18/24 1420	RECEIVED AT LAB BY:	DATE & TIME 9/20/2024 12:24

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240463

2024-12-06

Approved by:

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Reported: 2024-12-06

FedEx: 280234596875

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E-mail: Kathryn.Farris@arcadis.com
Phone: (404) 506-7116

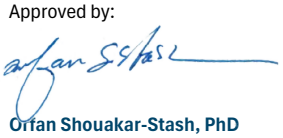
File Number: 240463
Project #: Plant McManus Week 6 Sampling October 2024
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-10-02	10:16	173238	X	53.0	0.4	1x50mL Falcon Tube
2	MCM-MCM-06	2024-10-01	11:10	173239	X	8.9	0.1	1x50mL Falcon Tube
3	MCM-PT-01	2024-10-01	12:58	173240	X	6.1	0.4	1x50mL Falcon Tube
4	MCM-PT-02	2024-10-01	10:12	173241	X	4.8	0.3	1x50mL Falcon Tube
5	MCM-PT-03	2024-10-01	13:36	173242	X	14.7	0.5	1x50mL Falcon Tube
6	MCM-DR-01	2024-10-01	16:43	173243	X	6.4	0.4	1x50mL Falcon Tube
7	MCM-DR-02	2024-10-01	16:37	173244	X	6.0	0.2	1x50mL Falcon Tube
8	MCM-DR-03	2024-10-01	11:47	173245	X	170.4	0.5	1x50mL Falcon Tube
9	MCM-AP1-FD-01	2024-10-01		173246	X	8.7	0.4	1x50mL Falcon Tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:



Orfan Shouakar-Stash, PhD
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Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	(Rush)	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 6 Week Sampling October 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX														
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium								COMMENTS	LAB ID
2024/10/02	1016		X	X			MCM-INW-01	1	X									
2024/10/31	1110		X	X			MCM-MCM-06	1	X									
2024/10/01	1254		X	X			MCM-PT-01	1	X									
2024/10/02	1012		X	X			MCM-PT-02	1	X									
2024/10/01	1330		X	X			MCM-PT-03	1	X									
2024/10/01	1643		X	X			MCM-DR-01	1	X									
2024/10/01	1637		X	X			MCM-DR-02	1	X									
2024/10/01	1147		X	X			MCM-DR-03	1	X									
2024/10/01	—		X	X			MCM-AP1-FD-01	1	X									

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20240930

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission

Is the water sampled intended to be potable for human consumption? Yes ___ No ___

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

SAMPLED BY: Kevin Stephenson, Natalie Piparo, Jay Siewert	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 10/2/24 15:00	RECEIVED AT LAB BY:	DATE & TIME 10/3/24

Observations

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 6			
Task Code: MCM-CCR-CA-20240930			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240468

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
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Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 280711763529

ISOTOPE TRACER TECHNOLOGIES INC

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E-mail: Kathryn.Farris@arcadis.com
Phone: (404)506-7116

File Number: **240468**
Project #: **Plant McManus 8-Week Sampling October 2024**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-10-15	14:11	173312	X	40.1	0.2	1x50mL falcon tube
2	MCM-MCM-06	2024-10-15	11:41	173313	X	6.6	0.4	1x50mL falcon tube
3	MCM-PT-01	2024-10-15	9:55	173314	X	4.8	0.3	1x50mL falcon tube
4	MCM-PT-02	2024-10-15	16:01	173315	X	3.6	0.2	1x50mL falcon tube
5	MCM-PT-03	2024-10-15	16:46	173316	X	9.2	0.5	1x50mL falcon tube
6	MCM-DR-01	2024-10-15	14:18	173317	X	5.7	0.4	1x50mL falcon tube
7	MCM-DR-02	2024-10-16	10:16	173318	X	5.8	0.4	1x50mL falcon tube
8	MCM-DR-03	2024-10-15	10:31	173319	X	84.5	0.3	1x50mL falcon tube
9	MCM-AP1-FD-01	2024-10-15		173320	X	80.8	0.4	1x50mL falcon tube

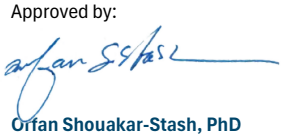
^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:



Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested (regular)		
ASAP	(Rush)		

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 8-Week Sampling October 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX																
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium										COMMENTS	LAB ID
2024-10-15	14 11		X	X			MCM-INW-01	1	X											
2024-10-15	1141		X	X			MCM-MCM-06	1	X											
2024-10-15	0955		X	X			MCM-PT-01	1	X											
2024-10-15	1004		X	X			MCM-PT-02	1	X											
2024-10-15	1040		X	X			MCM-PT-03	1	X											
2024-10-15	1418		X	X			MCM-DR-01	1	X											
2024-10-15	1019		X	X			MCM-DR-02	1	X											
2024-10-15	1031		X	X			MCM-DR-03	1	X											
2024-10-15	——		X	X			MCM-AP1-FD-01	1	X											

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20241014

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___
If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No ___

SAMPLE CONDITION

__ FROZEN
__ COLD
__ COOLING INITIATED
__ AMBIENT

Observations

SAMPLED BY: Jay Siewert, Natalie Piparo, William Laaker, Kevin Step	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 10/16/24 1150	RECEIVED AT LAB BY:	DATE & TIME 10/22/24 9:39 am

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 8			
Task Code: MCM-CCR-CA-20241014			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240499

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 779272998803

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: natalie.piparo@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
Phone: (404) 506-7116

File Number: **240499**
Project #: **Plant McManus Week 10 Sampling**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-10-29	11:52	174011	X	30.9	0.2	1x60mL
2	MCM-MCM-06	2024-10-29	9:46	174012	X	7.2	0.4	1x60mL
3	MCM-PT-01	2024-10-29	15:36	174013	X	5.6	0.3	1x60mL
4	MCM-PT-02	2024-10-29	14:08	174014	X	5.3	0.2	1x60mL
5	MCM-PT-03	2024-10-29	14:33	174015	X	7.1	0.4	1x60mL
6	MCM-DR-01	2024-10-29	11:21	174016	X	6.3	0.4	1x60mL
7	MCM-DR-02	2024-10-29	16:12	174017	X	6.5	0.4	1x60mL
8	MCM-DR-03	2024-10-29	9:35	174018	X	55.6	0.4	1x60mL
9	MCM-AP1-FD-01	2024-10-29		174019	X	4.9	0.2	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 10 Week Sampling October 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: natalie.piparo@resoluteenv.com EMAIL 3: Kathryn.Farris@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX				ANALYSIS REQUEST			
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium		
2024-10-29	1152		X	X			MCM-INW-01	1	X		
2024-10-29	0946		X	X			MCM-MCM-06	1	X		
2024-10-29	1536		X	X			MCM-PT-01	1	X		
2024-10-29	1408		X	X			MCM-PT-02	1	X		
2024-10-29	1433		X	X			MCM-PT-03	1	X		
2024-10-29	1121		X	X			MCM-DR-01	1	X		
2024-10-29	1612		X	X			MCM-DR-02	1	X		
2024-10-29	0935		X	X			MCM-DR-03	1	X		
2024-10-29	——		X	X			MCM-AP1-FD-01	1	X		

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

COMMENTS	LAB ID

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20241028

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.

Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

Observations

SAMPLED BY: Natalie Piparo, Jay Siewert	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 10/30/24 0945	RECEIVED AT LAB BY:	DATE & TIME 11/06/24

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240517

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 791523715618

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: natalie.piparo@resoluteenv.com
E-mail: Kathryn.Farries@arcadis.com
Phone: 404-506-7116

File Number: 240517
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-1NW-01	2024-11-12	15:15	174281	X	19.0	0.4	1X50mL falcon tube
2	MCM-MCM-06	2024-11-12	10:26	174282	X	8.6	0.1	1X50mL falcon tube
3	MCM-PT-01	2024-11-12	12:54	174283	X	6.5	0.1	1X50mL falcon tube
4	MCM-PT-02	2024-11-12	9:47	174284	X	4.4	0.4	1X50mL falcon tube
5	MCM-PT-03	2024-11-12	12:30	174285	X	6.5	0.5	1X50mL falcon tube
6	MCM-DR-01	2024-11-12	15:35	174286	X	7.1	0.5	1X50mL falcon tube
7	MCM-DR-02	2024-11-12	9:58	174287	X	7.4	0.1	1X50mL falcon tube
8	MCM-DR-03	2024-11-12	10:29	174288	X	41.3	0.3	1X50mL falcon tube
9	MCM-AP1-FD-01	2024-11-12			X	10.4	0.5	1X50mL falcon tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 12-Week Sampling November 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: natalie.piparo@resoluteenv.com EMAIL 3: Kathryn.Farris@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX				ANALYSIS REQUEST											PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- (F, P, F/P)	
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium										COMMENTS	LAB ID
2024-11-12	1515		X	X			MCM-INW-01	1	X											
2024-11-12	1026		X	X			MCM-MCM-06	1	X											
2024-11-12	1254		X	X			MCM-PT-01	1	X											
2024-11-13	0947		X	X			MCM-PT-02	1	X											
2024-11-12	1230		X	X			MCM-PT-03	1	X											
2024-11-12	1535		X	X			MCM-DR-01	1	X											
2024-11-13	0958		X	X			MCM-DR-02	1	X											
2024-11-12	1029		X	X			MCM-DR-03	1	X											
2024-11-12	—		X	X			MCM-AP1-FD-01	1	X											

SUBMISSION #:
ENTERED BY:
DATE/TIME ENTERED:
BIN #:

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20241111

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.

Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

Observations

SAMPLED BY: Will Lasker, ~~Natalie Piparo~~ Jay Stewart	DATE & TIME 11/13/24 1330	RECEIVED BY: Fedex	DATE & TIME 11/13/24 1330
RELINQUISHED BY:	DATE & TIME	RECEIVED AT LAB BY:	DATE & TIME 11/18/24

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/16/2024 4:39:46 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation

JOB NUMBER

680-255318-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

Generated
9/16/2024 4:39:46 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-255318-1
Project/Site: Plant McManus - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255318-1	DR-03	Water	08/27/24 10:22	08/29/24 11:59
680-255318-2	INW-01	Water	08/27/24 12:12	08/29/24 11:59
680-255318-3	PT-03	Water	08/27/24 15:10	08/29/24 11:59
680-255318-4	DR-02	Water	08/27/24 16:30	08/29/24 11:59
680-255318-5	FD-01	Water	08/27/24 00:00	08/29/24 11:59
680-255318-6	PT-02	Water	08/28/24 10:12	08/29/24 11:59
680-255318-7	DR-01	Water	08/28/24 11:46	08/29/24 11:59
680-255318-8	PT-01	Water	08/28/24 14:10	08/29/24 11:59
680-255318-9	MCM-06	Water	08/28/24 15:34	08/29/24 11:59

Job Narrative
680-255318-1

Receipt
The samples were received on 8/29/2024 11:59 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 2.4°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

September 16, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-255318-1

Dear David Fuller,

On August 30, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 1.4°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
DR-03 (680-255318-1)	2408492-01	Water-D	Sample	08/27/2024	08/30/2024
INW-01 (680-255318-2)	2408492-02	Water-D	Sample	08/27/2024	08/30/2024
PT-03 (680-255318-3)	2408492-03	Water-D	Sample	08/27/2024	08/30/2024
DR-02 (680-255318-4)	2408492-04	Water-D	Sample	08/27/2024	08/30/2024
FD-01 (680-255318-5)	2408492-05	Water-D	Sample	08/27/2024	08/30/2024
PT-02 (680-255318-6)	2408492-06	Water-D	Sample	08/28/2024	08/30/2024
DR-01 (680-255318-7)	2408492-07	Water-D	Sample	08/28/2024	08/30/2024
PT-01 (680-255318-8)	2408492-08	Water-D	Sample	08/28/2024	08/30/2024
MCM-06 (680-255318-9)	2408492-09	Water-D	Sample	08/28/2024	08/30/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	09/09/24	09/10/24	B242198	S240865
As(V)	Water	SOP BAL-4100	ISO,TNI	09/09/24	09/10/24	B242198	S240865
DMAs	Water	SOP BAL-4100	ISO	09/09/24	09/10/24	B242198	S240865
MMAs	Water	SOP BAL-4100	ISO	09/09/24	09/10/24	B242198	S240865
Unk As Sp	Water	SOP BAL-4100		09/09/24	09/10/24	B242198	S240865

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
DR-03 (680-255318-1)										
2408492-01	As(III)	Water-D	D	0.289	J	0.200	1.05	µg/L	B242198	S240865
2408492-01	As(V)	Water-D	D	3.77		0.500	1.05	µg/L	B242198	S240865
2408492-01	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-01	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-01	Unk As Sp	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
INW-01 (680-255318-2)										
2408492-02	As(III)	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-02	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-02	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-02	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-02	Unk As Sp	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
PT-03 (680-255318-3)										
2408492-03	As(III)	Water-D	D	3.59		0.200	1.05	µg/L	B242198	S240865
2408492-03	As(V)	Water-D	D	3.48		0.500	1.05	µg/L	B242198	S240865
2408492-03	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-03	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-03	Unk As Sp	Water-D	D	0.441	J	0.250	1.05	µg/L	B242198	S240865
DR-02 (680-255318-4)										
2408492-04	As(III)	Water-D	D	0.658	J	0.200	1.05	µg/L	B242198	S240865
2408492-04	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-04	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-04	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-04	Unk As Sp	Water-D	D	89.6		0.250	1.05	µg/L	B242198	S240865
FD-01 (680-255318-5)										
2408492-05	As(III)	Water-D	D	0.256	J	0.200	1.05	µg/L	B242198	S240865
2408492-05	As(V)	Water-D	D	3.72		0.500	1.05	µg/L	B242198	S240865
2408492-05	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-05	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-05	Unk As Sp	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
PT-02 (680-255318-6)										
2408492-06	As(III)	Water-D	D	0.524	J	0.200	1.05	µg/L	B242198	S240865
2408492-06	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-06	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-06	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-06	Unk As Sp	Water-D	D	9.29		0.250	1.05	µg/L	B242198	S240865
DR-01 (680-255318-7)										
2408492-07	As(III)	Water-D	D	1.54		0.200	1.05	µg/L	B242198	S240865
2408492-07	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-07	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-07	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-07	Unk As Sp	Water-D	D	57.8		0.250	1.05	µg/L	B242198	S240865
PT-01 (680-255318-8)										
2408492-08	As(III)	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-08	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-08	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-08	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-08	Unk As Sp	Water-D	D	13.4		0.250	1.05	µg/L	B242198	S240865
MCM-06 (680-255318-9)										
2408492-09	As(III)	Water-D	D	0.920	J	0.800	4.20	µg/L	B242198	S240865
2408492-09	As(V)	Water-D	D	≤ 2.00	U	2.00	4.20	µg/L	B242198	S240865
2408492-09	DMAs	Water-D	D	≤ 1.00	U	1.00	4.20	µg/L	B242198	S240865
2408492-09	MMAs	Water-D	D	≤ 0.800	U	0.800	4.20	µg/L	B242198	S240865
2408492-09	Unk As Sp	Water-D	D	134		1.00	4.20	µg/L	B242198	S240865

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Accuracy & Precision Summary

Batch: B242198
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242198-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.190	µg/L	104% 75-125	
	As(V)		5.000	4.773	µg/L	95% 75-125	
B242198-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.658	µg/L	113% 75-125	
	MMAs		4.400	4.764	µg/L	108% 75-125	
B242198-DUP2	**Duplicate, (2408492-09)**						
	As(III)	0.920		0.903	µg/L		2% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	133.5		136.3	µg/L		2% 25
B242198-MS2	**Matrix Spike, (2408492-09)**						
	As(III)	0.920	209.0	221.6	µg/L	106% 75-125	
	As(V)	ND	194.2	216.2	µg/L	111% 75-125	
	DMAs	ND	222.2	241.2	µg/L	109% 75-125	
	MMAs	ND	200.0	218.5	µg/L	109% 75-125	
B242198-MSD2	**Matrix Spike Duplicate, (2408492-09)**						
	As(III)	0.920	209.0	223.9	µg/L	107% 75-125	1% 25
	As(V)	ND	194.2	218.4	µg/L	112% 75-125	1% 25
	DMAs	ND	222.2	243.1	µg/L	109% 75-125	0.8% 25
	MMAs	ND	200.0	221.2	µg/L	111% 75-125	1% 25

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Method Blanks & Reporting Limits

Batch: B242198
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242198-BLK1	-0.0003	µg/L
B242198-BLK2	-0.0005	µg/L
B242198-BLK3	-0.0005	µg/L
B242198-BLK4	0.00007	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Sample Containers

Lab ID: 2408492-01 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: DR-03 (680-255318-1) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-02 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: INW-01 (680-255318-2) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-03 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: PT-03 (680-255318-3) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-04 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: DR-02 (680-255318-4) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

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Sample Containers

Lab ID: 2408492-05 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: FD-01 (680-255318-5) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-06 **Report Matrix:** Water-D **Collected:** 08/28/2024
Sample: PT-02 (680-255318-6) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-07 **Report Matrix:** Water-D **Collected:** 08/28/2024
Sample: DR-01 (680-255318-7) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-08 **Report Matrix:** Water-D **Collected:** 08/28/2024
Sample: PT-01 (680-255318-8) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

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Sample Containers

Lab ID: 2408492-09
Sample: MCM-06 (680-255318-9)
Report Matrix: Water-D
Sample Type: Sample
Collected: 08/28/2024
Received: 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Shipping Containers

Cooler - 2408492

Received: August 30, 2024 9:48
Tracking No: 6881 2505 6872 via FedEx
Coolant Type: Ice
Temperature: 1.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: SCTH-1

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2408492

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9/16/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-781060.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-255318-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 9/11/2024	Analysis Requested		Preservation Codes: -
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus - Arsenic Speciation	Project #: 68027841			Other:
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)	SUB (Metals Speciation)/ Metals Speciation (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DR-03 (680-255318-1)	8/27/24	10:22 Eastern	G	Water			X	2	
INW-01 (680-255318-2)	8/27/24	12:12 Eastern	G	Water			X	2	
PT-03 (680-255318-3)	8/27/24	15:10 Eastern	G	Water			X	2	
DR-02 (680-255318-4)	8/27/24	16:30 Eastern	G	Water			X	2	
FD-01 (680-255318-5)	8/27/24	Eastern	G	Water			X	2	
PT-02 (680-255318-6)	8/28/24	10:12 Eastern	G	Water			X	2	
DR-01 (680-255318-7)	8/28/24	11:46 Eastern	G	Water			X	2	
PT-01 (680-255318-8)	8/28/24	14:10 Eastern	G	Water			X	2	
MCM-06 (680-255318-9)	8/28/24	15:34 Eastern	G	Water			X	2	

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	*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: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/29/24 1500			8/30/24 0948	BAL
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:

BAL Report 2408492

BROOKS APPLIED LABS

Chain-of-Custody Form

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only

Received by: [illegible] Date: 08/30/24

Work Order ID: _____ Time: 0948

Project ID: _____

Client: Southwest Companies PO Number: _____ Mailing Address: 1003 Washington Pkwy Suite 320 Westminster, CA 30188

Contact: David Fuller Phone: 470-895-0653

Client Project ID: _____ Email: [illegible] Email Receipt Confirmation? (Yes/No)

Samples Collected By: KMS BAL PM: Amy Goodwill

Requested TAT (business days)

- ☒ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl / HNO_3 / Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (Org, III, V, MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	DR-03	8/27/24	1012	GW	2	Y					X					Total Samples Collected for Analysis
2	INW-01	8/27/24	1212	GW	2	Y					X					
3	PT-03	8/27/24	1518	GW	2	Y					X					
4	DR-02	8/27/24	1630	GW	2	Y					X					
5	FD-01	8/27/24	—	GW	2	Y					X					
6	PT-02	8/28/24	1012	GW	2	Y					X					
7	DR-01	8/28/24	1146	GW	2	Y					X					
8	PT-01	8/28/24	1410	GW	2	Y					X					
9	MCM-06	8/28/24	1534	GW	2	Y					X					
10																
	Trip Blank															

680-255318 Chain of Custody

Relinquished By: [illegible]	Date: 8/29/24	Time: 1004	Relinquished By: [illegible] Date: 8/29/24 Time: 1159
Received By:	Date:	Time:	Total Number of Packages: 2.4/2.4

Page____of____ List Hazardous Contaminants: _____

samples@brooksapplied.com | brooksapplied.com

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255318-1

Login Number: 255318
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.	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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/17/2024 3:47:53 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation

JOB NUMBER

680-256219-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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Authorization

Generated
10/17/2024 3:47:53 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-256219-1
Project/Site: Plant McManus - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256219-1	MCM-INW-01	Water	09/17/24 12:22	09/19/24 10:11
680-256219-2	MCM-MCM-06	Water	09/17/24 11:56	09/19/24 10:11
680-256219-3	MCM-PT-01	Water	09/17/24 10:02	09/19/24 10:11
680-256219-4	MCM-PT-02	Water	09/17/24 15:37	09/19/24 10:11
680-256219-5	MCM-PT-03	Water	09/17/24 15:50	09/19/24 10:11
680-256219-6	MCM-DR-03	Water	09/17/24 10:35	09/19/24 10:11
680-256219-7	MCM-FD-01	Water	09/17/24 00:00	09/19/24 10:11
680-256219-8	MCM-DR-02	Water	09/18/24 09:58	09/19/24 10:11
680-256219-9	MCM-DR-01	Water	09/18/24 11:07	09/19/24 10:11

Job Narrative
680-256219-1

Receipt
The samples were received on 9/19/2024 10:11 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 2.7°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

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October 16, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-256219-1

Dear David Fuller,

On September 20, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 1.4°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-256219-1)	2409339-01	Water	Sample	09/17/2024	08/30/2024
MCM-MCM-06 (680-256219-2)	2409339-02	Water	Sample	09/17/2024	08/30/2024
MCM-PT-01 (680-256219-3)	2409339-03	Water	Sample	09/17/2024	08/30/2024
MCM-PT-02 (680-256219-4)	2409339-04	Water	Sample	09/17/2024	08/30/2024
MCM-PT-03 (680-256219-5)	2409339-05	Water	Sample	09/17/2024	08/30/2024
MCM-DR-03 (680-256219-6)	2409339-06	Water	Sample	09/17/2024	08/30/2024
MCM-FD-01 (680-256219-7)	2409339-07	Water	Field Duplicate	09/17/2024	08/30/2024
MCM-DR-02 (680-256219-8)	2409339-08	Water	Sample	09/18/2024	08/30/2024
MCM-DR-01 (680-256219-9)	2409339-09	Water	Sample	09/18/2024	08/30/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	09/30/24	09/30/24	B242421	S240947
As(V)	Water	SOP BAL-4100	ISO,TNI	09/30/24	09/30/24	B242421	S240947
DMAs	Water	SOP BAL-4100	ISO	09/30/24	09/30/24	B242421	S240947
MMAs	Water	SOP BAL-4100	ISO	09/30/24	09/30/24	B242421	S240947
Unk As Sp	Water	SOP BAL-4100		09/30/24	09/30/24	B242421	S240947

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-256219-1)										
2409339-01	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-01	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-01	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-01	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-01	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
MCM-MCM-06 (680-256219-2)										
2409339-02	As(III)	Water	D	0.865	J	0.800	4.20	µg/L	B242421	S240947
2409339-02	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242421	S240947
2409339-02	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242421	S240947
2409339-02	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242421	S240947
2409339-02	Unk As Sp	Water	D	146		1.00	4.20	µg/L	B242421	S240947
MCM-PT-01 (680-256219-3)										
2409339-03	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-03	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-03	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-03	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-03	Unk As Sp	Water	D	9.44		0.250	1.05	µg/L	B242421	S240947
MCM-PT-02 (680-256219-4)										
2409339-04	As(III)	Water	D	1.12		0.200	1.05	µg/L	B242421	S240947
2409339-04	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-04	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-04	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-04	Unk As Sp	Water	D	19.2		0.250	1.05	µg/L	B242421	S240947
MCM-PT-03 (680-256219-5)										
2409339-05	As(III)	Water	D	0.414	J	0.200	1.05	µg/L	B242421	S240947
2409339-05	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-05	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-05	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-05	Unk As Sp	Water	D	5.46		0.250	1.05	µg/L	B242421	S240947

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-03 (680-256219-6)										
2409339-06	As(III)	Water	D	0.320	J	0.200	1.05	µg/L	B242421	S240947
2409339-06	As(V)	Water	D	1.90		0.500	1.05	µg/L	B242421	S240947
2409339-06	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-06	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-06	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
MCM-FD-01 (680-256219-7)										
2409339-07	As(III)	Water	D	1.31		0.200	1.05	µg/L	B242421	S240947
2409339-07	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-07	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-07	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-07	Unk As Sp	Water	D	19.8		0.250	1.05	µg/L	B242421	S240947
MCM-DR-02 (680-256219-8)										
2409339-08	As(III)	Water	D	0.604	J	0.200	1.05	µg/L	B242421	S240947
2409339-08	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-08	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-08	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-08	Unk As Sp	Water	D	71.1		0.250	1.05	µg/L	B242421	S240947
MCM-DR-01 (680-256219-9)										
2409339-09	As(III)	Water	D	0.446	J	0.200	1.05	µg/L	B242421	S240947
2409339-09	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-09	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-09	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-09	Unk As Sp	Water	D	25.5		0.250	1.05	µg/L	B242421	S240947

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Accuracy & Precision Summary

Batch: B242421
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242421-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.419	µg/L	108% 75-125	
	As(V)		5.000	5.140	µg/L	103% 75-125	
B242421-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.733	µg/L	115% 75-125	
	MMAs		4.400	4.857	µg/L	110% 75-125	
B242421-DUP1	**Duplicate, (2409339-02)**						
	As(III)	0.865		1.043	µg/L		19% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	145.6		147.0	µg/L		1% 25
B242421-MS1	**Matrix Spike, (2409339-02)**						
	As(III)	0.865	209.0	225.3	µg/L	107% 75-125	
	As(V)	ND	194.2	215.3	µg/L	111% 75-125	
	DMAs	ND	222.2	244.8	µg/L	110% 75-125	
	MMAs	ND	200.0	217.8	µg/L	109% 75-125	
B242421-MSD1	**Matrix Spike Duplicate, (2409339-02)**						
	As(III)	0.865	209.0	223.6	µg/L	107% 75-125	0.8% 25
	As(V)	ND	194.2	213.8	µg/L	110% 75-125	0.7% 25
	DMAs	ND	222.2	240.1	µg/L	108% 75-125	2% 25
	MMAs	ND	200.0	214.7	µg/L	107% 75-125	1% 25

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Method Blanks & Reporting Limits

Batch: B242421
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242421-BLK1	0.001	µg/L
B242421-BLK2	0.0009	µg/L
B242421-BLK3	0.0008	µg/L
B242421-BLK4	0.002	µg/L

Average: 0.001
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Sample Containers

Lab ID: 2409339-01 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-INW-01 (680-256219-1) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-02 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-MCM-06 (680-256219-2) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-03 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-PT-01 (680-256219-3) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-04 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-PT-02 (680-256219-4) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

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Sample Containers

Lab ID: 2409339-05 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-PT-03 (680-256219-5) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-06 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-DR-03 (680-256219-6) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-07 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-FD-01 (680-256219-7) **Sample Type:** Field Duplicate **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-08 **Report Matrix:** Water **Collected:** 09/18/2024
Sample: MCM-DR-02 (680-256219-8) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Containers

Lab ID: 2409339-09
Sample: MCM-DR-01 (680-256219-9)
Report Matrix: Water
Sample Type: Sample
Collected: 09/18/2024
Received: 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Shipping Containers

Cooler - 2409339

Received: August 30, 2024 9:48
Tracking No: 6881 2506 3164 via FedEx
Coolant Type: Ice
Temperature: 1.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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BAL Report 2409339

10/17/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-782928.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-256219-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 10/7/2024			Preservation Codes: -
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus - Arsenic Speciation	Project #: 68027841			
Site:	SSOW#:			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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-256219-1)	9/17/24	12:22 Eastern	G	Water			X	2	
MCM-MCM-06 (680-256219-2)	9/17/24	11:56 Eastern	G	Water			X	2	
MCM-PT-01 (680-256219-3)	9/17/24	10:02 Eastern	G	Water			X	2	
MCM-PT-02 (680-256219-4)	9/17/24	15:37 Eastern	G	Water			X	2	
MCM-PT-03 (680-256219-5)	9/17/24	15:50 Eastern	G	Water			X	2	
MCM-DR-03 (680-256219-6)	9/17/24	10:35 Eastern	G	Water			X	2	
MCM-FD-01 (680-256219-7)	9/17/24	Eastern	G	Water			X	2	
MCM-DR-02 (680-256219-8)	9/18/24	09:58 Eastern	G	Water			X	2	
MCM-DR-01 (680-256219-9)	9/18/24	11:07 Eastern	G	Water			X	2	

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	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: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/19/24 1530			9/20/24 1016	BAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE. Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southwest Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Brandube / Valentin Popov / Jay Simmert

PO Number: _____
Phone: 425-395-0653
Email: [illegible]

Mailing Address: 10033 Woodinville Pkwy Suite 320 Woodinville, WA 98077
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg (IV,V) MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-MW6-01	9/17/25	1222	WG	2	Y					X					
2	MCM-MW6-06	9/17/25	1156	WG	2	Y					X					
3	MCM-PT-01	9/17/24	1502	WG	2	Y					X					
4	MCM-PT-02	9/17/24	1537	WG	2	Y					X					
5	MCM-PT-03	9/17/24	1555	WG	2	Y					X					
6	MCM-DR-03	9/17/24	1035	WG	2	Y					X					
7	MCM-FD-01	9/17/24	–	WG	2	Y					X					
8	MCM-DR-02	9/18/24	0958	WG	2	Y					X					
9	MCM-DR-01	9/18/24	1107	WG	2	Y					X					
10																
	Trip Blank															

680-256219 Chain of Custody

Relinquished By: [signature]	Date: 9/18/24	Time: 1420	Relinquished By: Fed Ex
Received By: [signature]	Date:	Time:	Total Number of Packages:

Date: | Time:
9/19/24 1011 2.7/2.7

Page 1 of 1

List Hazardous Contaminants: _____

samples@brooksapplied.com | brooksapplied.com

Plant McManus Performance Monitoring Sampling Week 4				
Task Code: MCM-CCR-CA-20240916				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02 WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1 FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

BROOKS APPLIED LABS

13751 Lake City Way NE
Suite 108
Seattle, WA 98125
www.brooksapplied.com

Phone: 206-632-6206
Fax: 206-632-6017
Email: info@brooksapplied.com

10/17/2024

Sample Container Order Form and Packing Slip

Date to ship by: 8/28/2024
Date to Arrive: 9/5/2024

Shipper: FedEx
Service to Use: Ground
Service Changed? ☐ Yes, for _____

Paired with tubing order? no

Project ID: EUR-SV2201
Ship To (Company): Resolute
Contact Name: Attn: Kevin Stephenson
Shipping Address: 1003 Weatherstone Parkway, Suite 320
Woodstock, GA 30188

Date: 8/27/2024
Phone: (470) 895-0653
Fax:
Cell:
Email: kevin.stephenson@resoluteenv.com
BAL PM: Amy Goodall

Bill to: 1 - Sender (BAL)

COPY

Ship Using: ☑ Cooler ☐ Cardboard Box

Comments: Eurofins PM is David Fuller

Quantity Needed	Pre-preserved?	Description	Cleaning Lot Number	Amount per Lot
11	no	**As Speciation (HPLC): 2 x 10mL Vacutainer** *DO NOT USE ACID-CLEANED BOTTLES! - For BAL use* *SC: For vacutainers (10mL Lavendar lid), also need to include per container:* *25mL syringes* ☒ *0.45 µm syringe filters* ☒ *25 gauge needles* ☒ 500 mL *HDPE Sharps Container(s)* ☒ *(Need enough containers to include all syringes/sampling sites)* ***Please check boxes above once items have been packed*** ***Vacutainer Expiration date:*** 12-31-2024 ***(Should be no less than 2 months from today's date)*** *Notes:*	24-0060 N/A ~~N/A~~ 0 N/A 20-0177	11 11 11 11 1

Submitted By: ACG
Assembled By: GHS
Shipped By: EO
Reviewed By: EO

A COPY OF THIS FORM SHOULD BE INCLUDED WITH THE SHIPMENT AS A PACKING SLIP

0 EE GHS 8/27/24
Filter Lot: 24-0024

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-256219-1

Login Number: 256219

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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1 2 3 4 5 6

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/31/2024 5:23:00 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation 8 Week Oct.

JOB NUMBER

680-257317-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

Generated
10/31/2024 5:23:00 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-257317-1
Project/Site: Plant McManus - Arsenic Speciation 8 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257317-1	MCM-INW-01	Water	10/15/24 14:11	10/17/24 10:09
680-257317-2	MCM-MCM-06	Water	10/15/24 11:41	10/17/24 10:09
680-257317-3	MCM-PT-01	Water	10/15/24 09:55	10/17/24 10:09
680-257317-4	MCM-PT-02	Water	10/15/24 16:01	10/17/24 10:09
680-257317-5	MCM-PT-03	Water	10/15/24 16:46	10/17/24 10:09
680-257317-6	MCM-DR-01	Water	10/15/24 14:18	10/17/24 10:09
680-257317-7	MCM-DR-02	Water	10/15/24 10:16	10/17/24 10:09
680-257317-8	MCM-DR-03	Water	10/15/24 10:30	10/17/24 10:09
680-257317-9	MCM-AP1-FD-01	Water	10/15/24 00:00	10/17/24 10:09

Job ID: 680-257317-1 Eurofins Savannah

Job Narrative
680-257317-1

Receipt
The samples were received on 10/17/2024 10:09 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 3.1°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

October 31, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-257317-1

Dear David Fuller,

On October 18, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 4.5°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-257317-1)	2410328-01	Water	Sample	10/15/2024	10/18/2024
MCM-MCM-06 (680-257317-2)	2410328-02	Water	Sample	10/15/2024	10/18/2024
MCM-PT-01 (680-257317-3)	2410328-03	Water	Sample	10/15/2024	10/18/2024
MCM-PT-02 (680-257317-4)	2410328-04	Water	Sample	10/15/2024	10/18/2024
MCM-PT-03 (680-257317-5)	2410328-05	Water	Sample	10/15/2024	10/18/2024
MCM-DR-01 (680-257317-6)	2410328-06	Water	Sample	10/15/2024	10/18/2024
MCM-DR-02 (680-257317-7)	2410328-07	Water	Sample	10/15/2024	10/18/2024
MCM-DR-03 (680-257317-8)	2410328-08	Water	Sample	10/15/2024	10/18/2024
MCM-AP1-FD-01 (680-257317-9)	2410328-09	Water	Sample	10/15/2024	10/18/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	10/23/24	10/24/24	B242684	S241035
As(V)	Water	SOP BAL-4100	ISO,TNI	10/23/24	10/24/24	B242684	S241035
DMAs	Water	SOP BAL-4100	ISO	10/23/24	10/24/24	B242684	S241035
MMAs	Water	SOP BAL-4100	ISO	10/23/24	10/24/24	B242684	S241035
Unk As Sp	Water	SOP BAL-4100		10/23/24	10/24/24	B242684	S241035

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-257317-1)										
2410328-01	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-01	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-01	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-01	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-01	Unk As Sp	Water	D	1.12	J	1.00	4.20	µg/L	B242684	S241035
MCM-MCM-06 (680-257317-2)										
2410328-02	As(III)	Water	D	0.837	J	0.800	4.20	µg/L	B242684	S241035
2410328-02	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-02	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-02	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-02	Unk As Sp	Water	D	143		1.00	4.20	µg/L	B242684	S241035
MCM-PT-01 (680-257317-3)										
2410328-03	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-03	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-03	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-03	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-03	Unk As Sp	Water	D	13.2		1.00	4.20	µg/L	B242684	S241035
MCM-PT-02 (680-257317-4)										
2410328-04	As(III)	Water	D	1.32	J	0.800	4.20	µg/L	B242684	S241035
2410328-04	As(V)	Water	D	23.3		2.00	4.20	µg/L	B242684	S241035
2410328-04	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-04	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-04	Unk As Sp	Water	D	9.41		1.00	4.20	µg/L	B242684	S241035
MCM-PT-03 (680-257317-5)										
2410328-05	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-05	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-05	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-05	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-05	Unk As Sp	Water	D	9.19		1.00	4.20	µg/L	B242684	S241035

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-257317-6)										
2410328-06	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-06	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-06	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-06	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-06	Unk As Sp	Water	D	26.5		1.00	4.20	µg/L	B242684	S241035
MCM-DR-02 (680-257317-7)										
2410328-07	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-07	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-07	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-07	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-07	Unk As Sp	Water	D	79.5		1.00	4.20	µg/L	B242684	S241035
MCM-DR-03 (680-257317-8)										
2410328-08	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-08	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-08	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-08	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-08	Unk As Sp	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
MCM-AP1-FD-01 (680-257317-9)										
2410328-09	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-09	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-09	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-09	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-09	Unk As Sp	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035

Accuracy & Precision Summary

Batch: B242684
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242684-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.515	µg/L	110% 75-125	
	As(V)		5.000	5.454	µg/L	109% 75-125	
B242684-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.699	µg/L	114% 75-125	
	MMAs		4.400	4.791	µg/L	109% 75-125	
B242684-DUP2	**Duplicate, (2410328-09)**						
	As(III)	ND		ND	µg/L		N/C 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	ND		ND	µg/L		N/C 25
B242684-MS2	**Matrix Spike, (2410328-09)**						
	As(III)	ND	209.0	232.0	µg/L	111% 75-125	
	As(V)	ND	194.2	220.7	µg/L	114% 75-125	
	DMAs	ND	222.2	246.1	µg/L	111% 75-125	
	MMAs	ND	200.0	222.3	µg/L	111% 75-125	
B242684-MSD2	**Matrix Spike Duplicate, (2410328-09)**						
	As(III)	ND	209.0	234.8	µg/L	112% 75-125	1% 25
	As(V)	ND	194.2	217.8	µg/L	112% 75-125	1% 25
	DMAs	ND	222.2	249.1	µg/L	112% 75-125	1% 25
	MMAs	ND	200.0	221.0	µg/L	110% 75-125	0.6% 25

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Method Blanks & Reporting Limits

Batch: B242684
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242684-BLK1	0.0008	µg/L
B242684-BLK2	0.0004	µg/L
B242684-BLK3	0.0001	µg/L
B242684-BLK4	0.00004	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

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Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Sample Containers

Lab ID: 2410328-01 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-INW-01 (680-257317-1) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-02 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-MCM-06 (680-257317-2) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-03 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-PT-01 (680-257317-3) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-04 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-PT-02 (680-257317-4) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Sample Containers

Lab ID: 2410328-05 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-PT-03 (680-257317-5) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-06 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-DR-01 (680-257317-6) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-07 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-DR-02 (680-257317-7) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-08 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-DR-03 (680-257317-8) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Sample Containers

Lab ID: 2410328-09
Sample: MCM-AP1-FD-01 (680-257317-9)
Report Matrix: Water
Sample Type: Sample
Collected: 10/15/2024
Received: 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Shipping Containers

Cooler - 2410328

Received: October 18, 2024 10:00
Tracking No: 6881 2506 9644 via FedEx
Coolant Type: Ice
Temperature: 4.5 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-6

Custody seals present? No
Custody seals intact? No
COC present? Yes

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2410328

eurofins | Environment Testing

10/31/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784943.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-257317-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 11/6/2024	Analysis Requested		Preservation Codes:
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus Performance Monitoring 8 Week Oct.	Project #: 68027841			Other:
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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-257317-1)	10/15/24	14:11 Eastern	G	Water			X	2	
MCM-MCM-06 (680-257317-2)	10/15/24	11:41 Eastern	G	Water			X	2	
MCM-PT-01 (680-257317-3)	10/15/24	09:55 Eastern	G	Water			X	2	
MCM-PT-02 (680-257317-4)	10/15/24	16:01 Eastern	G	Water			X	2	
MCM-PT-03 (680-257317-5)	10/15/24	16:46 Eastern	G	Water			X	2	
MCM-DR-01 (680-257317-6)	10/15/24	14:18 Eastern	G	Water			X	2	
MCM-DR-02 (680-257317-7)	10/15/24	10:16 Eastern	G	Water			X	2	
MCM-DR-03 (680-257317-8)	10/15/24	10:30 Eastern	G	Water			X	2	
MCM-AP1-FD-01 (680-257317-9)	10/15/24	Eastern	G	Water			X	2	

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	*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: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 10/17/24 1600	Company	Received by: JNT	Date/Time: 10/18/24 1000	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:

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

BAL Report 2410328

For BAL use only
Received by: JNT Date: 10/18/24
Work Order ID: Time: 1000
Project ID:

Client: Southern Company
Contact: David Fuller
Client Project ID:
Samples Collected By: Resolute / Natalie Piparo / Jay Siewert

PO Number:
Phone: (908) 797-0335
Email: natalie.piparo@resoluteenv.com

Mailing Address: 1003 Weatherstone Parkway Suite 320 Woodstock GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM:

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl / HNO_3 / Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (Org, DII, DMMA, DMA)	Se-Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	10/15/24	1411	WG	2	Y					X					
2	MCM-MCM-06	10/15/24	1141	WG	2	Y					X					
3	MCM-PT-01	10/15/24	0955	WG	2	Y					X					
4	MCM-PT-02	10/15/24	1601	WG	2	Y					X					
5	MCM-PT-03	10/15/24	1646	WG	2	Y					X					
6	MCM-DR-01	10/15/24	1418	WG	2	Y					X					
7	MCM-DR-02	10/16/24	1016	WG	2	Y					X					
8	MCM-DR-03	10/15/24	1031	WG	2	Y					X					
9	MCM-API-FD-01	10/15/24	—	WG	2	Y					X					
10																
	Trip Blank															

650-257317 Chain of Custody

Relinquished By:	Date: 10/16/24	Time: 1200	Relinquished By:	Date:	Time:
Received By: Fed Ex	Date:	Time:	Total Number of Packages:		

Page 1 of 1

List Hazardous Contaminants:

10/17/24 1009 3.1/3.1

samples@brooksapplied.com | brooksapplied.com

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Resolute / Natalie Pisaro / Jay Siewert

PO Number: _____
Phone: (908) 797-0335
Email: natalie.pisaro@resolute-env.com

Mailing Address: 1003 Weatherstone Parkway Suite 320 Woodstock GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (IOrg, III, V, MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	10/15/24	1411	WG	2	Y					X					
2	MCM-MCM-06	10/15/24	1141	WG	2	Y					X					
3	MCM-PT-01	10/15/24	0955	WG	2	Y					X					
4	MCM-PT-02	10/15/24	1001	WG	2	Y					X					
5	MCM-PT-03	10/15/24	1646	WG	2	Y					X					
6	MCM-DR-01	10/15/24	1418	WG	2	Y					X					
7	MCM-DR-02	10/16/24	1016	WG	2	Y					X					
8	MCM-DR-03	10/15/24	1031	WG	2	Y					X					
9	MCM-API-FD-01	10/15/24	—	WG	2	Y					X					
10																
	Trip Blank															

660-257317 Chain of Custody

Relinquished By:	Date: 10/16/24	Time: 1200	Relinquished By: / Date: / Time:
Received By: Fed Ex	Date:	Time:	Total Number of Packages:

Page 1 of 1

List Hazardous Contaminants: _____

10/17/24 1009 3.1/3.1

samples@brooksapplied.com | brooksapplied.com

Plant McManus Performance Monitoring Sampling Week 8				
Task Code: MCM-CCR-CA-20241014				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

BROOKS APPLIED LABS

13751 Lake City Way NE
Suite 108
Seattle, WA 98125
www.brooksapplied.com

Phone: 206-632-6206
Fax: 206-632-6017
Email: info@brooksapplied.com

10/31/2024

Sample Container Order Form and Packing Slip

COPY

Date to ship by: 9/27/2024
Date to Arrive: 10/4/2024

Shipper: FedEx
Service to Use: Ground

Service Changed? ☐ Yes, for_____

Paired with tubing order? no

Project ID: EUR-SV2201
Ship To (Company): Resolute
Contact Name: Attn: Natalie Piparo
Shipping Address: 1003 Weatherstone Parkway, Suite 320
Woodstock, GA 30188

Date: 9/23/2024
Phone: (470) 895-0653
Fax:
Cell:
Email: Natalie.piparo@resoluteenv.com
BAL PM: Amy Goodall

Bill to: 1 - Sender (BAL)

Ship Using: ☑ Cooler ☐ Cardboard Box

Comments: Eurofins PM is David Fuller

Quantity Needed	Pre-preserved?	Description	Cleaning Lot Number	Amount per Lot
10	no	**As Speciation (HPLC): 2 x 10mL Vacutainer** *DO NOT USE ACID-CLEANED BOTTLES! - For BAL use*	24-0082	10
		SC: For vacutainers (10mL Lavendar lid), also need to include per container: *25mL syringes* ☑ *0.45 µm syringe filters* ☑ *25 gauge needles* ☑ 1 *HDPE Sharps Container(s)* ☑ *(Need enough containers to include all syringes/sampling sites)* ***Please check boxes above once items have been packed*** ***Vacutainer Expiration date:*** 2/28/25 ***(Should be no less than 2 months from today's date)*** *Notes:*	- NA 23-0113 NA 20-CITY	10 10 10 1

Submitted By: ACG
Assembled By: JT
Shipped By: JT
Reviewed By: BJN

A COPY OF THIS FORM SHOULD BE INCLUDED WITH THE SHIPMENT AS A PACKING SLIP

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-257317-1

Login Number: 257317
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.	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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 12/10/2024 9:14:52 AM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation 12 Week Dec.

JOB NUMBER

680-258577-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Eurofins Savannah

Job Notes

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Authorization

Generated
12/10/2024 9:14:52 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-258577-1
Project/Site: Plant McManus - Arsenic Speciation 12 Week Dec.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258577-1	MCM-INW-01	Water	11/12/24 15:15	11/14/24 09:48
680-258577-2	MCM-MCM-06	Water	11/12/24 10:26	11/14/24 09:48
680-258577-3	MCM-PT-01	Water	11/12/24 12:54	11/14/24 09:48
680-258577-4	MCM-PT-02	Water	11/13/24 09:47	11/14/24 09:48
680-258577-5	MCM-PT-03	Water	11/12/24 12:30	11/14/24 09:48
680-258577-6	MCM-DR-01	Water	11/12/24 15:35	11/14/24 09:48
680-258577-7	MCM-DR-02	Water	11/13/24 09:58	11/14/24 09:48
680-258577-8	MCM-DR-03	Water	11/12/24 10:29	11/14/24 09:48
680-258577-9	MCM-AP1-FD-01	Water	11/12/24 00:00	11/14/24 09:48

Job ID: 680-258577-1 Eurofins Savannah

Job Narrative
680-258577-1

Receipt
The samples were received on 11/14/2024 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
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December 9, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-258577-1

Dear David Fuller,

On November 15, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 5.9°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-258577-1)	2411201-01	Water	Sample	11/12/2024	11/15/2024
MCM-MCM-06 (680-258577-2)	2411201-02	Water	Sample	11/12/2024	11/15/2024
MCM-PT-01 (680-258577-3)	2411201-03	Water	Sample	11/12/2024	11/15/2024
MCM-PT-02 (680-258577-4)	2411201-04	Water	Sample	11/13/2024	11/15/2024
MCM-PT-03 (680-258577-5)	2411201-05	Water	Sample	11/12/2024	11/15/2024
MCM-DR-01 (680-258577-6)	2411201-06	Water	Sample	11/12/2024	11/15/2024
MCM-DR-02 (680-258577-7)	2411201-07	Water	Sample	11/13/2024	11/15/2024
MCM-DR-03 (680-258577-8)	2411201-08	Water	Sample	11/12/2024	11/15/2024
MCM-AP1-FD-01 (680-258577-9)	2411201-09	Water	Sample	11/12/2024	11/15/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	11/21/24	11/22/24	B242946	S241142
As(V)	Water	SOP BAL-4100	ISO,TNI	11/21/24	11/22/24	B242946	S241142
DMAs	Water	SOP BAL-4100	ISO	11/21/24	11/22/24	B242946	S241142
MMAs	Water	SOP BAL-4100	ISO	11/21/24	11/22/24	B242946	S241142
Unk As Sp	Water	SOP BAL-4100		11/21/24	11/22/24	B242946	S241142

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-258577-1)										
2411201-01	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-01	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-01	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-01	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-01	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
MCM-MCM-06 (680-258577-2)										
2411201-02	As(III)	Water	D	0.942	J	0.200	1.05	µg/L	B242946	S241142
2411201-02	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-02	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-02	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-02	Unk As Sp	Water	D	163		0.250	1.05	µg/L	B242946	S241142
MCM-PT-01 (680-258577-3)										
2411201-03	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-03	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-03	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-03	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-03	Unk As Sp	Water	D	14.4		0.250	1.05	µg/L	B242946	S241142
MCM-PT-02 (680-258577-4)										
2411201-04	As(III)	Water	D	0.674	J	0.200	1.05	µg/L	B242946	S241142
2411201-04	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-04	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-04	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-04	Unk As Sp	Water	D	12.2		0.250	1.05	µg/L	B242946	S241142
MCM-PT-03 (680-258577-5)										
2411201-05	As(III)	Water	D	0.385	J	0.200	1.05	µg/L	B242946	S241142
2411201-05	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-05	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-05	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-05	Unk As Sp	Water	D	13.3		0.250	1.05	µg/L	B242946	S241142

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-258577-6)										
2411201-06	As(III)	Water	D	0.294	J	0.200	1.05	µg/L	B242946	S241142
2411201-06	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-06	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-06	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-06	Unk As Sp	Water	D	29.1		0.250	1.05	µg/L	B242946	S241142
MCM-DR-02 (680-258577-7)										
2411201-07	As(III)	Water	D	0.658	J	0.200	1.05	µg/L	B242946	S241142
2411201-07	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-07	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-07	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-07	Unk As Sp	Water	D	80.9		0.250	1.05	µg/L	B242946	S241142
MCM-DR-03 (680-258577-8)										
2411201-08	As(III)	Water	D	0.364	J	0.200	1.05	µg/L	B242946	S241142
2411201-08	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-08	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-08	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-08	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
MCM-AP1-FD-01 (680-258577-9)										
2411201-09	As(III)	Water	D	0.931	J	0.200	1.05	µg/L	B242946	S241142
2411201-09	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-09	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-09	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-09	Unk As Sp	Water	D	152		0.250	1.05	µg/L	B242946	S241142

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Accuracy & Precision Summary

Batch: B242946
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242946-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	4.648	µg/L	93% 75-125	
	As(V)		5.000	4.470	µg/L	89% 75-125	
B242946-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	4.950	µg/L	99% 75-125	
	MMAs		4.400	4.174	µg/L	95% 75-125	
B242946-DUP5	**Duplicate, (2411201-09)**						
	As(III)	0.931		0.974	µg/L		4% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	152.1		150.7	µg/L		0.9% 25
B242946-MS5	**Matrix Spike, (2411201-09)**						
	As(III)	0.931	52.25	58.12	µg/L	109% 75-125	
	As(V)	ND	48.55	60.13	µg/L	124% 75-125	
	DMAs	ND	55.55	64.72	µg/L	117% 75-125	
	MMAs	ND	50.00	57.09	µg/L	114% 75-125	
B242946-MSD5	**Matrix Spike Duplicate, (2411201-09)**						
	As(III)	0.931	52.25	55.52	µg/L	104% 75-125	5% 25
	As(V)	ND	48.55	60.51	µg/L	125% 75-125	0.6% 25
	DMAs	ND	55.55	64.99	µg/L	117% 75-125	0.4% 25
	MMAs	ND	50.00	57.49	µg/L	115% 75-125	0.7% 25

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Method Blanks & Reporting Limits

Batch: B242946
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Sample Containers

Lab ID: 2411201-01 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-INW-01 (680-258577-1) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-02 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-MCM-06 (680-258577-2) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-03 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-PT-01 (680-258577-3) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-04 **Report Matrix:** Water **Collected:** 11/13/2024
Sample: MCM-PT-02 (680-258577-4) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

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Sample Containers

Lab ID: 2411201-05 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-PT-03 (680-258577-5) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-06 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-DR-01 (680-258577-6) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-07 **Report Matrix:** Water **Collected:** 11/13/2024
Sample: MCM-DR-02 (680-258577-7) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-08 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-DR-03 (680-258577-8) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Containers

Lab ID: 2411201-09
Sample: MCM-AP1-FD-01 (680-258577-9)
Report Matrix: Water
Sample Type: Sample
Collected: 11/12/2024
Received: 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Shipping Containers

Cooler - 2411201

Received: November 15, 2024 10:00
Tracking No: 4260 4475 3264 via FedEx
Coolant Type: Ice
Temperature: 5.9 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2411201

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12/10/2024

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-788067.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-258577-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 12/4/2024	Analysis Requested		Preservation Codes: -
City: Seattle	TAT Requested (days): N/A			
State, Zip: WA, 98125				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus	Project #: 68027841			
Site: N/A	SSOW#: N/A			Other: N/A

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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-258577-1)	11/12/24	15:15 Eastern	G	Water			X	2	
MCM-MCM-06 (680-258577-2)	11/12/24	10:26 Eastern	G	Water			X	2	
MCM-PT-01 (680-258577-3)	11/12/24	12:54 Eastern	G	Water			X	2	
MCM-PT-02 (680-258577-4)	11/13/24	09:47 Eastern	G	Water			X	2	
MCM-PT-03 (680-258577-5)	11/12/24	12:30 Eastern	G	Water			X	2	
MCM-DR-01 (680-258577-6)	11/12/24	15:35 Eastern	G	Water			X	2	
MCM-DR-02 (680-258577-7)	11/13/24	09:58 Eastern	G	Water			X	2	
MCM-DR-03 (680-258577-8)	11/12/24	10:29 Eastern	G	Water			X	2	
MCM-AP1-FD-01 (680-258577-9)	11/12/24	Eastern	G	Water			X	2	

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	*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: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 11/14/24 1515	Company	Received by:	Date/Time: 11/15/24 1000	Company BAL
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:

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Resolute Env. / William Lacker / Jay Stewart

PO Number: _____
Phone: (908) 797-0335
Email: natalie.piparo@resoluteenv.com

Mailing Address: 1003 Weatherstone Parkway Suite 320
Woodstock, GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl / HNO_3 / Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (InOrg, III), V), MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	11/12/24	1515	WG	2	Y					X					
2	MCM-MCM-06	11/12/24	1026	WG	2	Y					X					
3	MCM-PT-01	11/12/24	1254	WG	2	Y					X					
4	MCM-PT-02	11/13/24	0947	WG	2	Y					X					
5	MCM-PT-03	11/12/24	1230	WG	2	Y					X					
6	MCM-DR-01	11/12/24	1535	WG	2	Y					X					
7	MCM-DR-02	11/13/24	0958	WG	2	Y					X					
8	MCM-DR-03	11/12/24	1029	WG	2	Y					X					
9	MCM-API-FD-01	11/12/24	—	WG	2	Y					X					
10																
	Trip Blank															

680-258577 Chain of Custody

Relinquished By:	Date: 11/13/24	Time: 1330	Relinquished By: / Date: / Time:
Received By: Fedex	Date: 11/13/24	Time: 1330	Total Number of Packages:

Page 1 of 1
List Hazardous Contaminants: _____

EET Fuquay 11/14/24 948 0.1/0.1

samples@brooksapplied.com | brooksapplied.com

12/10/2024

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-258577-1

Login Number: 258577

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 8/30/2024 4:51:50 PM

JOB DESCRIPTION

Plant McManus Dike 1-Week Sampling August 2024

JOB NUMBER

680-255316-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

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8/30/2024 4:51:50 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

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

Sample Summary

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255316-1	MCM-MCM-06	Water	08/28/24 15:34	08/29/24 11:59
680-255316-2	MCM-PT-01	Water	08/28/24 14:10	08/29/24 11:59
680-255316-3	MCM-PT-02	Water	08/28/24 10:12	08/29/24 11:59
680-255316-4	MCM-PT-03	Water	08/27/24 15:10	08/29/24 11:59
680-255316-5	MCM-DR-01	Water	08/28/24 11:46	08/29/24 11:59
680-255316-6	MCM-DR-02	Water	08/27/24 16:30	08/29/24 11:59
680-255316-7	MCM-DR-03	Water	08/27/24 10:22	08/29/24 11:59
680-255316-8	MCM-AP1-FD-01	Water	08/27/24 00:00	08/29/24 11:59
680-255316-9	MCM-AP1-FB-01	Water	08/27/24 17:30	08/29/24 11:59
680-255316-10	MCM-AP1-EB-01	Water	08/27/24 17:36	08/29/24 11:59
680-255316-11	MCM-INW-01	Water	08/27/24 12:12	08/29/24 11:59

Job ID: 680-255316-1 Eurofins Savannah

Job Narrative
680-255316-1

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

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

Receipt
The samples were received on 8/29/2024 11:59 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 2.4°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255316-1
Date Collected: 08/28/24 15:34
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	42		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255316-2
Date Collected: 08/28/24 14:10
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255316-3
Date Collected: 08/28/24 10:12
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255316-4
Date Collected: 08/27/24 15:10
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	9.9		0.83	0.83	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255316-5
Date Collected: 08/28/24 11:46
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255316-6
Date Collected: 08/27/24 16:30
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255316-7
Date Collected: 08/27/24 10:22
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	11		0.81	0.81	mg/L			08/30/24 12:51	1

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255316-8
Date Collected: 08/27/24 00:00
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**13**		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255316-9
Date Collected: 08/27/24 17:30
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255316-10
Date Collected: 08/27/24 17:36
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255316-11
Date Collected: 08/27/24 12:12
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**9.6**		0.81	0.81	mg/L			08/30/24 12:51	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-854013/1
Matrix: Water
Analysis Batch: 854013

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			08/30/24 12:51	1

Lab Sample ID: LCS 680-854013/2
Matrix: Water
Analysis Batch: 854013

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	11.7		mg/L		117	75 - 125		

Lab Sample ID: LCSD 680-854013/3
Matrix: Water
Analysis Batch: 854013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	11.5		mg/L		115	75 - 125	2	30

Lab Sample ID: 680-255316-4 MS
Matrix: Water
Analysis Batch: 854013

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	9.9		6.94	17.9		mg/L		114	75 - 125		

Lab Sample ID: 680-255316-4 MSD
Matrix: Water
Analysis Batch: 854013

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	9.9		6.94	17.9		mg/L		114	75 - 125	0	30

Lab Sample ID: 680-255316-2 DU
Matrix: Water
Analysis Batch: 854013

Client Sample ID: MCM-PT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	23			23.9		mg/L				3	30

QC Association Summary

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

General Chemistry

Analysis Batch: 854013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255316-1	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255316-2	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255316-3	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255316-4	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255316-5	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255316-6	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255316-7	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255316-8	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255316-9	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255316-10	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-255316-11	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
MB 680-854013/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-854013/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-854013/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255316-4 MS	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255316-4 MSD	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255316-2 DU	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255316-1
Date Collected: 08/28/24 15:34
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255316-2
Date Collected: 08/28/24 14:10
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255316-3
Date Collected: 08/28/24 10:12
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255316-4
Date Collected: 08/27/24 15:10
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255316-5
Date Collected: 08/28/24 11:46
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255316-6
Date Collected: 08/27/24 16:30
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255316-7
Date Collected: 08/27/24 10:22
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255316-8
Date Collected: 08/27/24 00:00
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255316-9
Date Collected: 08/27/24 17:30
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255316-10
Date Collected: 08/27/24 17:36
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255316-11
Date Collected: 08/27/24 12:12
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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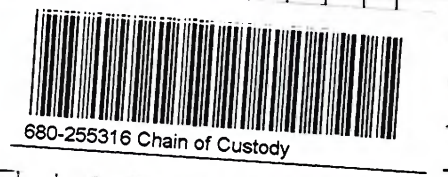
Client Information	Sampler: Jay Siewert, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			Preservation Codes:
City: Atlanta	TAT Requested (days): Standard			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)
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			Other:
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Dike 1-Week Sampling August 2024	Project #:			
Site:	SSOW#:			Task_Code: MCM-CCR-CA-20240826

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-MCM-06	8/28/24	1534	G	WG	N		X		
MCM-PT-01	8/28/24	1410	G	WG	N		X		
MCM-PT-02	8/28/24	1012	G	WG	N		X		
MCM-PT-03	8/27/24	1510	G	WG	N		X		
MCM-DR-01	8/28/24	1146	G	WG	N		X		
MCM-DR-02	8/27/24	1630	G	WG	N		X		
MCM-DR-03	8/27/24	1022	G	WG	N		X		
MCM-AP1-FD-01	8/22/24	—	G	WG	N		X		
MCM-AP1-FB-01	8/27/24	1736	G	WG	N		X		
MCM-AP1-EB-01	8/27/24	1736	G	WQ	N		X		
MCM-INW-01	8/27/24	1212	G	WQ	N		X		



Possible Hazard Identification

Non-Hazard *Flammable* *Skin Irritant* *Poison B* *Unknown* *Radiological*

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)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/29/24 @ 1159			8/29/24 1159	
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:
		2.4/2.4

Plant McManus Performance Monitoring Sampling Week 1				
Task Code: MCM-CCR-CA-20240826				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1				
Extra 2				

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255316-1

Login Number: 255316

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/11/2024 8:34:20 AM

JOB DESCRIPTION

Plant McManus Performance Monitoring 2-Week Sept

JOB NUMBER

680-255624-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

Generated
9/11/2024 8:34:20 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

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

Sample Summary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255624-1	MCM-INW-01	Water	09/05/24 11:46	09/06/24 10:34
680-255624-2	MCM-MCM-06	Water	09/05/24 15:38	09/06/24 10:34
680-255624-3	MCM-PT-01	Water	09/05/24 09:25	09/06/24 10:34
680-255624-4	MCM-PT-02	Water	09/05/24 14:17	09/06/24 10:34
680-255624-5	MCM-PT-03	Water	09/05/24 14:22	09/06/24 10:34
680-255624-6	MCM-DR-01	Water	09/05/24 11:39	09/06/24 10:34
680-255624-7	MCM-DR-02	Water	09/05/24 15:54	09/06/24 10:34
680-255624-8	MCM-DR-03	Water	09/05/24 09:22	09/06/24 10:34
680-255624-9	MCM-AP1-FD-01	Water	09/05/24 00:00	09/06/24 10:34
680-255624-10	MCM-AP1-FB-01	Water	09/05/24 16:48	09/06/24 10:34
680-255624-11	MCM-AP1-EB-01	Water	09/05/24 16:58	09/06/24 10:34

Job ID: 680-255624-1 Eurofins Savannah

Job Narrative
680-255624-1

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

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

Receipt
The samples were received on 9/6/2024 10:35 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 1.4°C.

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

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255624-1
Date Collected: 09/05/24 11:46
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	11		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255624-2
Date Collected: 09/05/24 15:38
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	42		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255624-3
Date Collected: 09/05/24 09:25
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	20		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255624-4
Date Collected: 09/05/24 14:17
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255624-5
Date Collected: 09/05/24 14:22
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255624-6
Date Collected: 09/05/24 11:39
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255624-7
Date Collected: 09/05/24 15:54
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	30		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample Results

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255624-8
Date Collected: 09/05/24 09:22
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**12**		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255624-9
Date Collected: 09/05/24 00:00
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**12**		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255624-10
Date Collected: 09/05/24 16:48
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255624-11
Date Collected: 09/05/24 16:58
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/10/24 13:15	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Job ID: 680-255624-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-855208/1
Matrix: Water
Analysis Batch: 855208

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/10/24 13:15	1

Lab Sample ID: LCS 680-855208/2
Matrix: Water
Analysis Batch: 855208

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.14		mg/L		91	75 - 125		

Lab Sample ID: LCSD 680-855208/3
Matrix: Water
Analysis Batch: 855208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.06		mg/L		91	75 - 125	1	30

Lab Sample ID: 680-255624-3 MS
Matrix: Water
Analysis Batch: 855208

Client Sample ID: MCM-PT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	20		6.50	27.0		mg/L		108	75 - 125		

Lab Sample ID: 680-255624-3 MSD
Matrix: Water
Analysis Batch: 855208

Client Sample ID: MCM-PT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	20		6.50	27.0		mg/L		108	75 - 125	0	30

Lab Sample ID: 680-255624-1 DU
Matrix: Water
Analysis Batch: 855208

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	11			11.2		mg/L				0.9	30

QC Association Summary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

General Chemistry

Analysis Batch: 855208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255624-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-255624-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255624-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255624-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255624-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255624-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255624-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255624-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255624-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255624-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255624-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-855208/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-855208/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-855208/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255624-3 MS	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255624-3 MSD	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255624-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255624-1
Date Collected: 09/05/24 11:46
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255624-2
Date Collected: 09/05/24 15:38
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255624-3
Date Collected: 09/05/24 09:25
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255624-4
Date Collected: 09/05/24 14:17
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255624-5
Date Collected: 09/05/24 14:22
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255624-6
Date Collected: 09/05/24 11:39
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255624-7
Date Collected: 09/05/24 15:54
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255624-8
Date Collected: 09/05/24 09:22
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255624-9
Date Collected: 09/05/24 00:00
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255624-10
Date Collected: 09/05/24 16:48
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255624-11
Date Collected: 09/05/24 16:58
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week Sept

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Kevin Stephenson, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 2-Week Sampling September 2024	Project #:			
Site:	SSOW#:			

Analysis Requested

680-255624 Chain of Custody

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:

Task_Code: MCM-CCR-CA-20240902

Special Instructions/Note:

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	9/5/24	1146	G	WG	N		X	2
MCM-MCM-06	9/5/24	1538	G	WG	N		X	2
MCM-PT-01	9/5/24	0925	G	WG	N		X	2
MCM-PT-02	9/5/24	1417	G	WG	N		X	2
MCM-PT-03	9/5/24	1422	G	WG	N		X	2
MCM-DR-01	9/5/24	1139	G	WG	N		X	2
MCM-DR-02	9/5/24	1554	G	WG	N		X	2
MCM-DR-03	9/5/24	0922	G	WG	N		X	2
MCM-AP1-FD-01	9/5/24	—	G	WG	N		X	2
MCM-AP1-FB-01	9/5/24	1648	G	WQ	N		X	2
MCM-AP1-EB-01	9/5/24	1658	G	WQ	N		X	2

Possible Hazard Identification
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological

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)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/6/24 @ 1034				
2				[signature]		
3				[signature]	9/6/24 1034	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.4/1.4

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255624-1

Login Number: 255624
List Number: 1
Creator: Lincoln, Alyssa

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/20/2024 1:32:17 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 3-Week Sept

JOB NUMBER

680-255934-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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

Sample Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255934-1	MCM-INW-01	Water	09/12/24 12:10	09/13/24 10:12
680-255934-2	MCM-MCM-06	Water	09/12/24 10:12	09/13/24 10:12
680-255934-3	MCM-PT-01	Water	09/12/24 11:57	09/13/24 10:12
680-255934-4	MCM-PT-02	Water	09/12/24 14:31	09/13/24 10:12
680-255934-5	MCM-PT-03	Water	09/12/24 13:50	09/13/24 10:12
680-255934-6	MCM-DR-01	Water	09/12/24 13:24	09/13/24 10:12
680-255934-7	MCM-DR-02	Water	09/12/24 15:08	09/13/24 10:12
680-255934-8	MCM-DR-03	Water	09/12/24 10:47	09/13/24 10:12
680-255934-9	MCM-AP1-FD-01	Water	09/12/24 00:00	09/13/24 10:12
680-255934-10	MCM-AP1-FB-01	Water	09/12/24 13:10	09/13/24 10:12
680-255934-11	MCM-AP1-EB-01	Water	09/12/24 13:14	09/13/24 10:12

Job ID: 680-255934-1 Eurofins Savannah

Job Narrative
680-255934-1

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

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

Receipt
The samples were received on 9/13/2024 10:12 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 4.1°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255934-1
Date Collected: 09/12/24 12:10
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.8		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255934-2
Date Collected: 09/12/24 10:12
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	47		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255934-3
Date Collected: 09/12/24 11:57
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255934-4
Date Collected: 09/12/24 14:31
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	25		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255934-5
Date Collected: 09/12/24 13:50
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255934-6
Date Collected: 09/12/24 13:24
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	27		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255934-7
Date Collected: 09/12/24 15:08
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample Results

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255934-8
Date Collected: 09/12/24 10:47
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	11		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255934-9
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255934-10
Date Collected: 09/12/24 13:10
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255934-11
Date Collected: 09/12/24 13:14
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/19/24 11:23	1

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-856653/1
Matrix: Water
Analysis Batch: 856653
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/19/24 11:23	1

Lab Sample ID: LCS 680-856653/2
Matrix: Water
Analysis Batch: 856653
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.80		mg/L		98	75 - 125		

Lab Sample ID: LCSD 680-856653/3
Matrix: Water
Analysis Batch: 856653
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.75		mg/L		98	75 - 125	0	30

Lab Sample ID: 680-255934-2 MS
Matrix: Water
Analysis Batch: 856653
Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	47		6.50	48.3	4	mg/L		25	75 - 125		

Lab Sample ID: 680-255934-2 MSD
Matrix: Water
Analysis Batch: 856653
Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	47		6.50	48.3	4	mg/L		25	75 - 125	0	30

Lab Sample ID: 680-255934-1 DU
Matrix: Water
Analysis Batch: 856653
Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	2.8			2.68		mg/L				5	30

QC Association Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

General Chemistry

Analysis Batch: 856653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255934-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-255934-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255934-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255934-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255934-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255934-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255934-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255934-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255934-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255934-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-856653/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-856653/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-856653/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255934-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255934-1
Date Collected: 09/12/24 12:10
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255934-2
Date Collected: 09/12/24 10:12
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255934-3
Date Collected: 09/12/24 11:57
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255934-4
Date Collected: 09/12/24 14:31
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255934-5
Date Collected: 09/12/24 13:50
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255934-6
Date Collected: 09/12/24 13:24
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255934-7
Date Collected: 09/12/24 15:08
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255934-8
Date Collected: 09/12/24 10:47
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255934-9
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255934-10
Date Collected: 09/12/24 13:10
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255934-11
Date Collected: 09/12/24 13:14
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Lasker (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 3-Week Sampling September 2024	Project #:			
Site:	SSOW#:			

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:

680-255934 Chain of Custody

Task_Code: MCM-CCR-CA-20240909

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	9/12/24	1210	G	WG	N		X	2	
MCM-MCM-06	9/12/24	1012	G	WG	N		X	2	
MCM-PT-01	9/12/24	1157	G	WG	N		X	2	
MCM-PT-02	9/12/24	1431	G	WG	N		X	2	
MCM-PT-03	9/12/24	1350	G	WG	N		X	2	
MCM-DR-01	9/12/24	1324	G	WG	N		X	2	
MCM-DR-02	9/12/24	1558	G	WG	N		X	2	
MCM-DR-03	9/12/24	1047	G	WG	N		X	2	
MCM-AP1-FD-01	9/12/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	9/12/24	1310	G	WQ	N		X	2	
MCM-AP1-EB-01	9/12/24	1314	G	WQ	N		X	2	

Possible Hazard Identification
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
FedEx 9/12/24 1640					
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	9/13/24 1012	ECHSAV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.1/4.1

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255934-1

Login Number: 255934

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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	

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/24/2024 8:54:26 AM

JOB DESCRIPTION

Plant McManus Performance Monitoring 4-Week Sept

JOB NUMBER

680-256211-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization

Generated
9/24/2024 8:54:26 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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

Sample Summary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256211-1	MCM-INW-01	Water	09/17/24 12:22	09/19/24 10:11
680-256211-2	MCM-MCM-06	Water	09/17/24 11:56	09/19/24 10:11
680-256211-3	MCM-PT-01	Water	09/17/24 10:02	09/19/24 10:11
680-256211-4	MCM-PT-02	Water	09/17/24 15:37	09/19/24 10:11
680-256211-5	MCM-PT-03	Water	09/17/24 15:50	09/19/24 10:11
680-256211-6	MCM-DR-01	Water	09/18/24 11:07	09/19/24 10:11
680-256211-7	MCM-DR-02	Water	09/18/24 09:58	09/19/24 10:11
680-256211-8	MCM-DR-03	Water	09/17/24 10:35	09/19/24 10:11
680-256211-9	MCM-AP1-FD-01	Water	09/17/24 00:00	09/19/24 10:11
680-256211-10	MCM-AP1-FB-01	Water	09/18/24 12:58	09/19/24 10:11
680-256211-11	MCM-AP1-EB-01	Water	09/18/24 13:08	09/19/24 10:11

Job ID: 680-256211-1 Eurofins Savannah

Job Narrative
680-256211-1

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

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

Receipt
The samples were received on 9/19/2024 10:11 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 2.7°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256211-1
Date Collected: 09/17/24 12:22
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.7		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256211-2
Date Collected: 09/17/24 11:56
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	43		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256211-3
Date Collected: 09/17/24 10:02
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256211-4
Date Collected: 09/17/24 15:37
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	17		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256211-5
Date Collected: 09/17/24 15:50
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	16		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256211-6
Date Collected: 09/18/24 11:07
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256211-7
Date Collected: 09/18/24 09:58
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	8.5		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample Results

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256211-8
Date Collected: 09/17/24 10:35
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256211-9
Date Collected: 09/17/24 00:00
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256211-10
Date Collected: 09/18/24 12:58
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256211-11
Date Collected: 09/18/24 13:08
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	0.84		0.81	0.81	mg/L			09/23/24 14:14	1

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-857190/1
Matrix: Water
Analysis Batch: 857190
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/23/24 14:14	1

Lab Sample ID: LCS 680-857190/2
Matrix: Water
Analysis Batch: 857190
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.48		mg/L		95	75 - 125		

Lab Sample ID: LCSD 680-857190/3
Matrix: Water
Analysis Batch: 857190
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.85		mg/L		98	75 - 125	4	30

Lab Sample ID: 680-256211-2 MS
Matrix: Water
Analysis Batch: 857190
Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	43		6.50	47.5	4	mg/L		75	75 - 125		

Lab Sample ID: 680-256211-2 MSD
Matrix: Water
Analysis Batch: 857190
Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	43		6.50	47.5	4	mg/L		75	75 - 125	0	30

Lab Sample ID: 680-256211-1 DU
Matrix: Water
Analysis Batch: 857190
Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	2.7			2.92		mg/L				8	30

QC Association Summary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

General Chemistry

Analysis Batch: 857190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256211-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-256211-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-256211-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-256211-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-256211-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-256211-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-256211-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-256211-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-256211-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-256211-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-256211-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-857190/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-857190/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-857190/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-256211-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-256211-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-256211-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256211-1
Date Collected: 09/17/24 12:22
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256211-2
Date Collected: 09/17/24 11:56
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256211-3
Date Collected: 09/17/24 10:02
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256211-4
Date Collected: 09/17/24 15:37
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256211-5
Date Collected: 09/17/24 15:50
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256211-6
Date Collected: 09/18/24 11:07
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256211-7
Date Collected: 09/18/24 09:58
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256211-8
Date Collected: 09/17/24 10:35
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256211-9
Date Collected: 09/17/24 00:00
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256211-10
Date Collected: 09/18/24 12:58
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256211-11
Date Collected: 09/18/24 13:08
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Jay Siewert, Natalie Piparo, William Laaker, Kevin Stephenson	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 4-Week Sampling September 2024	Project #:			
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, Other:
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)

Task_Code: MCM-CCR-CA-20240916

Special Instructions/Note:

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	9/17/24	1222	G	WG	N		X	2
MCM-MCM-06	9/17/24	1156	G	WG	N		X	2
MCM-PT-01	9/17/24	1002	G	WG	N		X	2
MCM-PT-02	9/17/24	1537	G	WG	N		X	2
MCM-PT-03	9/17/24	1550	G	WG	N		X	2
MCM-DR-01	9/18/24	1107	G	WG	N		X	2
MCM-DR-02	9/18/24	0958	G	WG	N		X	2
MCM-DR-03	9/17/24	1035	G	WG	N		X	2
MCM-AP1-FD-01	9/17/24	—	G	WG	N		X	2
MCM-AP1-FB-01	9/18/24	1258	G	WQ	N		X	2
MCM-AP1-EB-01	9/18/24	1308	G	WQ	N		X	2

680-256211 Chain of Custody

Possible Hazard Identification
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological

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)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		9/18/24 1420	Resolute	Fed Ex	9/19/24	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/19/24 1011	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:
		2.7/2.7

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-256211-1

Login Number: 256211

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/17/2024 9:06:12 AM

JOB DESCRIPTION

Plant McManus Performance Monitoring 6 Week Oct.

JOB NUMBER

680-256774-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization

Generated
10/17/2024 9:06:12 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

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

Sample Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256774-1	MCM-INW-01	Water	10/02/24 10:16	10/03/24 20:10
680-256774-2	MCM-MCM-06	Water	10/01/24 11:10	10/03/24 20:10
680-256774-3	MCM-PT-01	Water	10/01/24 12:58	10/03/24 20:10
680-256774-4	MCM-PT-02	Water	10/02/24 10:12	10/03/24 20:10
680-256774-5	MCM-PT-03	Water	10/01/24 13:36	10/03/24 20:10
680-256774-6	MCM-DR-01	Water	10/01/24 16:43	10/03/24 20:10
680-256774-7	MCM-DR-02	Water	10/01/24 16:37	10/03/24 20:10
680-256774-8	MCM-DR-03	Water	10/01/24 11:47	10/03/24 20:10
680-256774-9	MCM-AP1-FD-01	Water	10/01/24 00:00	10/03/24 20:10
680-256774-10	MCM-AP1-FB-01	Water	10/02/24 07:55	10/03/24 20:10
680-256774-11	MCM-AP1-EB-01	Water	10/02/24 08:02	10/03/24 20:10

Job ID: 680-256774-1 Eurofins Savannah

Job Narrative
680-256774-1

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

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

Project Manager Comments
These samples were transferred up to Eurofins Atlanta by lab courier due to lingering affects caused by Hurricane Helene on the facility's power at the Savannah laboratory.

Receipt
The samples were received on 10/3/2024 8:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256774-1
Date Collected: 10/02/24 10:16
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256774-2
Date Collected: 10/01/24 11:10
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	67		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256774-3
Date Collected: 10/01/24 12:58
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	36		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256774-4
Date Collected: 10/02/24 10:12
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256774-5
Date Collected: 10/01/24 13:36
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256774-6
Date Collected: 10/01/24 16:43
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	40		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256774-7
Date Collected: 10/01/24 16:37
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	64		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample Results

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256774-8
Date Collected: 10/01/24 11:47
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256774-9
Date Collected: 10/01/24 00:00
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**68**		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256774-10
Date Collected: 10/02/24 07:55
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256774-11
Date Collected: 10/02/24 08:02
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Job ID: 680-256774-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 705-15542/1-A
Matrix: Water
Analysis Batch: 15792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Lab Sample ID: LCS 705-15542/2-A
Matrix: Water
Analysis Batch: 15792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	16.4	16.4		mg/L		100	90 - 110

Lab Sample ID: 680-256774-1 MS
Matrix: Water
Analysis Batch: 15792

Client Sample ID: MCM-INW-01
Prep Type: Total/NA
Prep Batch: 15542

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<1.0		16.4	18.4		mg/L		112	80 - 120

Lab Sample ID: 680-256774-1 MSD
Matrix: Water
Analysis Batch: 15792

Client Sample ID: MCM-INW-01
Prep Type: Total/NA
Prep Batch: 15542

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<1.0		16.4	18.0		mg/L		110	80 - 120	2	20

QC Association Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

General Chemistry

Prep Batch: 15542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256774-1	MCM-INW-01	Total/NA	Water	SM 4500 S2 C	
680-256774-2	MCM-MCM-06	Total/NA	Water	SM 4500 S2 C	
680-256774-3	MCM-PT-01	Total/NA	Water	SM 4500 S2 C	
680-256774-4	MCM-PT-02	Total/NA	Water	SM 4500 S2 C	
680-256774-5	MCM-PT-03	Total/NA	Water	SM 4500 S2 C	
680-256774-6	MCM-DR-01	Total/NA	Water	SM 4500 S2 C	
680-256774-7	MCM-DR-02	Total/NA	Water	SM 4500 S2 C	
680-256774-8	MCM-DR-03	Total/NA	Water	SM 4500 S2 C	
680-256774-9	MCM-AP1-FD-01	Total/NA	Water	SM 4500 S2 C	
680-256774-10	MCM-AP1-FB-01	Total/NA	Water	SM 4500 S2 C	
680-256774-11	MCM-AP1-EB-01	Total/NA	Water	SM 4500 S2 C	
MB 705-15542/1-A	Method Blank	Total/NA	Water	SM 4500 S2 C	
LCS 705-15542/2-A	Lab Control Sample	Total/NA	Water	SM 4500 S2 C	
680-256774-1 MS	MCM-INW-01	Total/NA	Water	SM 4500 S2 C	
680-256774-1 MSD	MCM-INW-01	Total/NA	Water	SM 4500 S2 C	

Analysis Batch: 15792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256774-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	15542
680-256774-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	15542
680-256774-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	15542
680-256774-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	15542
680-256774-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	15542
680-256774-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	15542
MB 705-15542/1-A	Method Blank	Total/NA	Water	4500 S2 F-2011	15542
LCS 705-15542/2-A	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	15542
680-256774-1 MS	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-1 MSD	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	15542

Lab Chronicle

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256774-1
Date Collected: 10/02/24 10:16
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256774-2
Date Collected: 10/01/24 11:10
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256774-3
Date Collected: 10/01/24 12:58
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256774-4
Date Collected: 10/02/24 10:12
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256774-5
Date Collected: 10/01/24 13:36
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256774-6
Date Collected: 10/01/24 16:43
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256774-7
Date Collected: 10/01/24 16:37
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256774-8
Date Collected: 10/01/24 11:47
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256774-9
Date Collected: 10/01/24 00:00
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256774-10
Date Collected: 10/02/24 07:55
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256774-11

Date Collected: 10/02/24 08:02
Matrix: Water

Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Laboratory: Eurofins Atlanta

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

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

Method Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET ATL
SM 4500 S2 C	Sulfide, Sample Pretreatment/Concentration	SM	EET ATL

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Kevin Stephenson, Natalie Pipero, Jay Siewert (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus 6 Week Sampling October 2024	Project #:			
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:

Task_Code: MCM-CCR-CA-20240930

Special Instructions/Note:

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:		X		CB	
MCM-INW-01	10/02/24	1016	G	WG	N		X	2
MCM-MCM-06	10/01/24	1110	G	WG	N		X	2
MCM-PT-01	10/01/24	1258	G	WG	N		X	2
MCM-PT-02	10/02/24	1012	G	WG	N		X	2
MCM-PT-03	10/01/24	1336	G	WG	N		X	2
MCM-DR-01	10/01/24	1643	G	WG	N		X	2
MCM-DR-02	10/01/24	1637	G	WG	N		X	2
MCM-DR-03	10/01/24	1147	G	WG	N		X	2
MCM-AP1-FD-01	10/01/24	—	G	WG	N		X	2
MCM-AP1-FB-01	10/02/24	0755	G	WQ	N		X	2
MCM-AP1-EB-01	10/02/24	0802	G	WQ	N		X	2

680-256774 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature] ~~10/2/24 13:00~~	10/2/24 13:00	Resolute	Fed Ex		
[signature]	10-3 810	[illegible]	[signature]	10-3 550	[illegible]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	10/3/24 20:10	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.9°#2645

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-256774-1

Login Number: 256774
List Number: 2
Creator: Smith, Brittany

List Source: Eurofins Atlanta
List Creation: 10/07/24 11:28 AM

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/22/2024 6:05:26 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 8 Week Oct.

JOB NUMBER

680-257288-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization

Generated
10/22/2024 6:05:26 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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

Sample Summary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257288-1	MCM-INW-01	Water	10/15/24 14:11	10/17/24 10:09
680-257288-2	MCM-MCM-06	Water	10/15/24 11:41	10/17/24 10:09
680-257288-3	MCM-PT-01	Water	10/15/24 09:55	10/17/24 10:09
680-257288-4	MCM-PT-02	Water	10/15/24 16:01	10/17/24 10:09
680-257288-5	MCM-PT-03	Water	10/15/24 16:46	10/17/24 10:09
680-257288-6	MCM-DR-01	Water	10/15/24 14:18	10/17/24 10:09
680-257288-7	MCM-DR-02	Water	10/16/24 10:16	10/17/24 10:09
680-257288-8	MCM-DR-03	Water	10/15/24 10:31	10/17/24 10:09
680-257288-9	MCM-AP1-FD-01	Water	10/15/24 00:00	10/17/24 10:09
680-257288-10	MCM-AP1-FB-01	Water	10/16/24 08:30	10/17/24 10:09
680-257288-11	MCM-AP1-EB-01	Water	10/16/24 08:41	10/17/24 10:09

Job ID: 680-257288-1 Eurofins Savannah

Job Narrative
680-257288-1

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

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

Receipt
The samples were received on 10/17/2024 10:09 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 4.3°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257288-1
Date Collected: 10/15/24 14:11
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			10/21/24 16:23	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257288-2
Date Collected: 10/15/24 11:41
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	40		0.83	0.83	mg/L			10/21/24 16:23	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257288-3
Date Collected: 10/15/24 09:55
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257288-4
Date Collected: 10/15/24 16:01
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	15		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257288-5
Date Collected: 10/15/24 16:46
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257288-6
Date Collected: 10/15/24 14:18
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257288-7
Date Collected: 10/16/24 10:16
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	27		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample Results

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257288-8
Date Collected: 10/15/24 10:31
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	4.2		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257288-9
Date Collected: 10/15/24 00:00
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	4.2		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257288-10
Date Collected: 10/16/24 08:30
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			10/22/24 12:39	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257288-11
Date Collected: 10/16/24 08:41
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			10/22/24 12:39	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Job ID: 680-257288-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-860529/1
Matrix: Water
Analysis Batch: 860529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			10/21/24 16:23	1

Lab Sample ID: LCS 680-860529/2
Matrix: Water
Analysis Batch: 860529

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.08		mg/L		91	75 - 125		

Lab Sample ID: LCSD 680-860529/3
Matrix: Water
Analysis Batch: 860529

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.01		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-257288-2 MS
Matrix: Water
Analysis Batch: 860529

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	40		6.94	46.3	4	mg/L		89	75 - 125		

Lab Sample ID: 680-257288-2 MSD
Matrix: Water
Analysis Batch: 860529

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	40		6.94	46.3	4	mg/L		89	75 - 125	0	30

Lab Sample ID: 680-257288-1 DU
Matrix: Water
Analysis Batch: 860529

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.83			<0.83		mg/L				NC	30

Lab Sample ID: MB 680-860659/1
Matrix: Water
Analysis Batch: 860659

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			10/22/24 12:39	1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-860659/2
Matrix: Water
Analysis Batch: 860659

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.87		mg/L		89	75 - 125		

Lab Sample ID: LCSD 680-860659/3
Matrix: Water
Analysis Batch: 860659

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	8.95		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-257288-11 MS
Matrix: Water
Analysis Batch: 860659

Client Sample ID: MCM-AP1-EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.81		6.50	5.24		mg/L		81	75 - 125		

Lab Sample ID: 680-257288-11 MSD
Matrix: Water
Analysis Batch: 860659

Client Sample ID: MCM-AP1-EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	5.24		mg/L		81	75 - 125	0	30

Lab Sample ID: 680-257288-10 DU
Matrix: Water
Analysis Batch: 860659

Client Sample ID: MCM-AP1-FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

General Chemistry

Analysis Batch: 860529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257288-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-257288-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257288-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-257288-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-257288-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-257288-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257288-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-257288-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-257288-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-860529/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-860529/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-860529/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-257288-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257288-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257288-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 860659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257288-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-257288-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-860659/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-860659/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-860659/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-257288-11 MS	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-257288-11 MSD	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-257288-10 DU	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257288-1
Date Collected: 10/15/24 14:11
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:23	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257288-2
Date Collected: 10/15/24 11:41
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:23	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257288-3
Date Collected: 10/15/24 09:55
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257288-4
Date Collected: 10/15/24 16:01
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257288-5
Date Collected: 10/15/24 16:46
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257288-6
Date Collected: 10/15/24 14:18
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257288-7
Date Collected: 10/16/24 10:16
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257288-8
Date Collected: 10/15/24 10:31
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257288-9
Date Collected: 10/15/24 00:00
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257288-10
Date Collected: 10/16/24 08:30
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	860659	10/22/24 12:39	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257288-11
Date Collected: 10/16/24 08:41
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	860659	10/22/24 12:39	AF	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Environment Testing

Client Information	Sampler: Jay Siewert, Natalie Piparo, Kevin Stephenson (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 8-Week Sampling October 2024	Project #:			
Site:	SSOW#:			Task_Code: MCM-CCR-CA-20241014

Sample Identification	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)	SM4500_S2_F Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	10/15/24	411	G	WG	N		X	2	
MCM-MCM-06	10/15/24	1141	G	WG	N		X	2	
MCM-PT-01	10/15/24	0955	G	WG	N		X	2	
MCM-PT-02	10/15/24	1601	G	WG	N		X	2	
MCM-PT-03	10/15/24	1640	G	WG	N		X	2	
MCM-DR-01	10/15/24	1418	G	WG	N		X	2	
MCM-DR-02	10/16/24	1016	G	WG	N		X	2	
MCM-DR-03	10/15/24	1031	G	WG	N		X	2	
MCM-AP1-FD-01	10/15/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	10/16/24	0830	G	WQ	N		X	2	
MCM-AP1-EB-01	10/16/24	0841	G	WQ	N		X	2	

680-257288 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/16/24 1206	Resolute	Fed Ex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/17/24 1009	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: 4.3/4.3

Plant McManus Performance Monitoring Sampling Week 8				
Task Code: MCM-CCR-CA-20241014				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-257288-1

Login Number: 257288

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 11/1/2024 3:53:59 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 10 Week Oct.

JOB NUMBER

680-257942-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week
Oct.

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

Sample Summary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257942-1	MCM-INW-01	Water	10/29/24 11:52	10/31/24 10:11
680-257942-2	MCM-MCM-06	Water	10/29/24 09:46	10/31/24 10:11
680-257942-3	MCM-PT-01	Water	10/29/24 15:36	10/31/24 10:11
680-257942-4	MCM-PT-02	Water	10/29/24 14:08	10/31/24 10:11
680-257942-5	MCM-PT-03	Water	10/29/24 14:33	10/31/24 10:11
680-257942-6	MCM-DR-01	Water	10/29/24 11:21	10/31/24 10:11
680-257942-7	MCM-DR-02	Water	10/29/24 16:12	10/31/24 10:11
680-257942-8	MCM-DR-03	Water	10/29/24 09:35	10/31/24 10:11
680-257942-9	MCM-AP1-FD-01	Water	10/29/24 00:00	10/31/24 10:11
680-257942-10	MCM-AP1-FB-01	Water	10/30/24 08:17	10/31/24 10:11
680-257942-11	MCM-AP1-EB-01	Water	10/30/24 08:21	10/31/24 10:11

Job ID: 680-257942-1 Eurofins Savannah

Job Narrative
680-257942-1

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

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

Receipt
The samples were received on 10/31/2024 10:11 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 4.1°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257942-1
Date Collected: 10/29/24 11:52
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257942-2
Date Collected: 10/29/24 09:46
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257942-3
Date Collected: 10/29/24 15:36
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	15		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257942-4
Date Collected: 10/29/24 14:08
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257942-5
Date Collected: 10/29/24 14:33
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	16		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257942-6
Date Collected: 10/29/24 11:21
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257942-7
Date Collected: 10/29/24 16:12
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	28		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample Results

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week
Oct.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257942-8
Date Collected: 10/29/24 09:35
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**3.1**		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257942-9
Date Collected: 10/29/24 00:00
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**19**		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257942-10
Date Collected: 10/30/24 08:17
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257942-11
Date Collected: 10/30/24 08:21
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/01/24 10:46	1

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-862422/1
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/01/24 10:46	1

Lab Sample ID: LCS 680-862422/2
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.12		mg/L		91	75 - 125		

Lab Sample ID: LCSD 680-862422/3
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.02		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-257942-6 MS
Matrix: Water
Analysis Batch: 862422
Client Sample ID: MCM-DR-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	18		6.50	24.1		mg/L		93	75 - 125		

Lab Sample ID: 680-257942-6 MSD
Matrix: Water
Analysis Batch: 862422
Client Sample ID: MCM-DR-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	18		6.50	24.1		mg/L		93	75 - 125	0	30

Lab Sample ID: 680-257843-I-1 DU
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

General Chemistry

Analysis Batch: 862422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257942-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-257942-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257942-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-257942-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-257942-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-257942-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257942-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-257942-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-257942-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-257942-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-257942-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-862422/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-862422/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-862422/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-257942-6 MS	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257942-6 MSD	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257843-I-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257942-1
Date Collected: 10/29/24 11:52
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257942-2
Date Collected: 10/29/24 09:46
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257942-3
Date Collected: 10/29/24 15:36
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257942-4
Date Collected: 10/29/24 14:08
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257942-5
Date Collected: 10/29/24 14:33
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257942-6
Date Collected: 10/29/24 11:21
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257942-7
Date Collected: 10/29/24 16:12
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257942-8
Date Collected: 10/29/24 09:35
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257942-9
Date Collected: 10/29/24 00:00
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257942-10
Date Collected: 10/30/24 08:17
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257942-11
Date Collected: 10/30/24 08:21
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Natalie Piparo, Jay Stewart (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus 10 Week Sampling October 2024	Project #:			
Site: Plant McManus	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:

Task_Code: MCM-CCR-CA-20241028
Special Instructions/Note:

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	10/29/24	1152	G	WG	N		X	2
MCM-MCM-06	10/29/24	0946	G	WG	N		X	2
MCM-PT-01	10/29/24	1536	G	WG	N		X	2
MCM-PT-02	10/29/24	1408	G	WG	N		X	2
MCM-PT-03	10/29/24	1433	G	WG	N		X	2
MCM-DR-01	10/29/24	1121	G	WG	N		X	2
MCM-DR-02	10/29/24	1612	G	WG	N		X	2
MCM-DR-03	10/29/24	0935	G	WG	N		X	2
MCM-AP1-FD-01	10/29/24	—	G	WG	N		X	
MCM-AP1-FB-01	10/30/24	0817	G	WQ	N		X	
MCM-AP1-EB-01	10/30/24	0821	G	WQ	N		X	

680-257942 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jay Stewart	10/30/24 0945	Resolute	FedEx	10/30/24 0945	FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10-31-24 1011	
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: 4.1/4.1

Plant McManus Performance Monitoring Sampling Week 10			
Task Code: MCM-CCR-CA-20241028			
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X
Extra 1			X
Extra 2			X

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-257942-1

Login Number: 257942

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 11/20/2024 6:03:35 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 12 Week Dec.

JOB NUMBER

680-258574-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

Authorization

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11/20/2024 6:03:35 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

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

Sample Summary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258574-1	MCM-INW-01	Water	11/12/24 15:15	11/14/24 09:48
680-258574-2	MCM-MCM-06	Water	11/12/24 10:26	11/14/24 09:48
680-258574-3	MCM-PT-01	Water	11/12/24 12:54	11/14/24 09:48
680-258574-4	MCM-PT-02	Water	11/13/24 09:47	11/14/24 09:48
680-258574-5	MCM-PT-03	Water	11/12/24 12:30	11/14/24 09:48
680-258574-6	MCM-DR-01	Water	11/12/24 15:35	11/14/24 09:48
680-258574-7	MCM-DR-02	Water	11/13/24 09:58	11/14/24 09:48
680-258574-8	MCM-DR-03	Water	11/12/24 10:29	11/14/24 09:48
680-258574-9	MCM-AP1-FD-01	Water	11/12/24 00:00	11/14/24 09:48
680-258574-10	MCM-AP1-FB-01	Water	11/13/24 11:34	11/14/24 09:48
680-258574-11	MCM-AP1-EB-01	Water	11/13/24 11:23	11/14/24 09:48

Job ID: 680-258574-1 Eurofins Savannah

Job Narrative
680-258574-1

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

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

Receipt
The samples were received on 11/14/2024 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-258574-1
Date Collected: 11/12/24 15:15
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	1.8		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-258574-2
Date Collected: 11/12/24 10:26
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	36		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-258574-3
Date Collected: 11/12/24 12:54
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	20		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-258574-4
Date Collected: 11/13/24 09:47
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-258574-5
Date Collected: 11/12/24 12:30
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-258574-6
Date Collected: 11/12/24 15:35
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-258574-7
Date Collected: 11/13/24 09:58
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample Results

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-258574-8
Date Collected: 11/12/24 10:29
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**9.4**		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-258574-9
Date Collected: 11/12/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**40**		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-258574-10
Date Collected: 11/13/24 11:34
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/20/24 08:56	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-258574-11
Date Collected: 11/13/24 11:23
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/20/24 08:56	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Performance Monitoring 12 Week Dec.

Job ID: 680-258574-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-865037/1
Matrix: Water
Analysis Batch: 865037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/18/24 13:25	1

Lab Sample ID: LCS 680-865037/2
Matrix: Water
Analysis Batch: 865037

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.74		mg/L		87	75 - 125		

Lab Sample ID: LCSD 680-865037/3
Matrix: Water
Analysis Batch: 865037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.16		mg/L		92	75 - 125	5	30

Lab Sample ID: 680-258683-C-15 MS
Matrix: Water
Analysis Batch: 865037

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.81		6.50	7.19		mg/L		111	75 - 125		

Lab Sample ID: 680-258683-C-15 MSD
Matrix: Water
Analysis Batch: 865037

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	7.57		mg/L		116	75 - 125	5	30

Lab Sample ID: 680-258574-1 DU
Matrix: Water
Analysis Batch: 865037

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	1.8			1.65		mg/L				7	30

Lab Sample ID: MB 680-865356/1
Matrix: Water
Analysis Batch: 865356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/20/24 08:56	1

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-865356/2
Matrix: Water
Analysis Batch: 865356

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.90		mg/L		89	75 - 125		

Lab Sample ID: LCSD 680-865356/3
Matrix: Water
Analysis Batch: 865356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.03		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-258723-M-1 MS
Matrix: Water
Analysis Batch: 865356

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.83		6.94	7.31		mg/L		105	75 - 125		

Lab Sample ID: 680-258723-M-1 MSD
Matrix: Water
Analysis Batch: 865356

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.83		6.94	7.31		mg/L		105	75 - 125	0	30

Lab Sample ID: 680-258574-10 DU
Matrix: Water
Analysis Batch: 865356

Client Sample ID: MCM-AP1-FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

General Chemistry

Analysis Batch: 865037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258574-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-258574-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-258574-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-258574-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-258574-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-258574-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-258574-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-258574-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-258574-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-865037/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-865037/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-865037/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-258683-C-15 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-258683-C-15 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-258574-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 865356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258574-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-258574-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-865356/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-865356/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-865356/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-258723-M-1 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-258723-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-258574-10 DU	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-258574-1
Date Collected: 11/12/24 15:15
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-258574-2
Date Collected: 11/12/24 10:26
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-258574-3
Date Collected: 11/12/24 12:54
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-258574-4
Date Collected: 11/13/24 09:47
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-258574-5
Date Collected: 11/12/24 12:30
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-258574-6
Date Collected: 11/12/24 15:35
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-258574-7
Date Collected: 11/13/24 09:58
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-258574-8
Date Collected: 11/12/24 10:29
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-258574-9
Date Collected: 11/12/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-258574-10
Date Collected: 11/13/24 11:34
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-258574-11
Date Collected: 11/13/24 11:23
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week Dec.

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jay Siewert, Will Laaker (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 12-Week Sampling November 2024	Project #:			
Site: Plant McManus	SSOW#:			

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:

Task_Code: MCM-CCR-CA-20241111

Special Instructions/Note:

Sample Identification	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)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	11/12/24	1515	G	WG	N		X	2
MCM-MCM-06	11/12/24	1026	G	WG	N		X	2
MCM-PT-01	11/12/24	1254	G	WG	N		X	2
MCM-PT-02	11/13/24	0947	G	WG	N		X	2
MCM-PT-03	11/12/24	1230	G	WG	N		X	2
MCM-DR-01	11/12/24	1535	G	WG	N		X	2
MCM-DR-02	11/13/24	0958	G	WG	N		X	2
MCM-DR-03	11/12/24	1029	G	WG	N		X	2
MCM-AP1-FD-01	11/12/24	—	G	WG	N		X	2
MCM-AP1-FB-01	11/13/24	1134	G	WQ	N		X	2
MCM-AP1-EB-01	11/13/24	1123	G	WQ	N		X	2

Possible Hazard Identification
Non-Hazard, Flammable, Skin Irritant, Poison B, Unknown, Radiological

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)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Resolute Env.	11/13/24 1330	Resolute Env	Fedex	11/13/24 1330	Fedex
2					11/14 948	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.1 / 0.1

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-258574-1

Login Number: 258574

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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	

APPENDIX C

LABORATORY ANALYTICAL, DATA VALIDATION AND FIELD SAMPLING REPORTS

ENSAFE
creative thinking. custom solutions.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685518

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 685518 in the left-hand footer of the data report. Revision 01 updates the Project ID to match the Chain of Custody.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Radium 226/228 requested on the chain of custody were reported under GEL 685521. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685518001	MCM-MCM-01	Ground Water	09/11/24 10:15	09/12/24 14:30
685518002	MCM-MCM-02	Ground Water	09/11/24 15:14	09/12/24 14:30
685518003	MCM-MCM-05	Ground Water	09/11/24 12:14	09/12/24 14:30
685518004	MCM-MCM-07	Ground Water	09/11/24 10:21	09/12/24 14:30
685518005	MCM-MCM-14	Ground Water	09/11/24 15:41	09/12/24 14:30
685518006	MCM-MCM-15	Ground Water	09/11/24 15:35	09/12/24 14:30
685518007	MCM-MCM-16	Ground Water	09/11/24 11:58	09/12/24 14:30
685518008	MCM-MCM-18	Ground Water	09/11/24 09:51	09/12/24 14:30
685518009	MCM-MCM-19	Ground Water	09/11/24 11:20	09/12/24 14:30
685518010	MCM-MCM-20	Ground Water	09/11/24 15:13	09/12/24 14:30
685518011	MCM-DPZ-02	Ground Water	09/11/24 10:24	09/12/24 14:30
685518012	MCM-AP1-FD-02	Water	09/11/24 12:00	09/12/24 14:30
685518013	MCM-AP1-FB-02	Water	09/11/24 12:05	09/12/24 14:30
685518014	MCM-AP1-EB-02	Water	09/11/24 12:14	09/12/24 14:30

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.

Prep Methods and Prep Dates

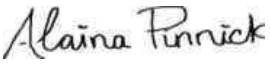
Method	Run Date ID
SW846 3005A	13-SEP-2024
SW846 7470A Prep	13-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-SEP-2024
EPA 300.0	14-SEP-2024
SM 2540C	18-SEP-2024
SW846 3005A/6020B	25-SEP-2024
SW846 3005A/6020B	26-SEP-2024
SW846 7470A	16-SEP-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685518 GEL Work Order: 685518

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-01	Project:	GPCC00624
Sample ID:	685518001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 10:15		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.34	0.0670	0.200	mg/L		1	CH6	09/13/24	2236	2672160	1
Fluoride	J	0.0669	0.0330	0.100	mg/L		1					
Sulfate		42.1	0.532	1.60	mg/L		4	CH6	09/14/24	1610	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1303	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0637	2671577	4
Arsenic		0.00586	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0868	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000200	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0753	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		9.60	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-01	Project:	GPCC00624
Sample ID:	685518001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-02	Project:	GPCC00624
Sample ID:	685518002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 15:14		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	09/14/24	0008	2672160	1
Chloride		16.4	0.134	0.400	mg/L		2	CH6	09/14/24	1641	2672160	2
Sulfate		26.2	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1305	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0717	2671577	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0585	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0875	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.36	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		64.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-02	Project:	GPCC00624
Sample ID:	685518002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-05	Project:	GPCC00624
Sample ID:	685518003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 12:14		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.654	0.132	0.400	mg/L		4	CH6	09/14/24	1915	2672160	1
Chloride		1800	13.4	40.0	mg/L		200	CH6	09/14/24	0141	2672160	2
Sulfate		148	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1306	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.463	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2010	2671577	4
Calcium		78.5	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0721	2671577	5
Arsenic		0.0249	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0230	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0290	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00113	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3020	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-05	Project:	GPCC00624
Sample ID:	685518003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

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: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-07
Sample ID: 685518004
Matrix: WG
Collect Date: 11-SEP-24 10:21
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2440	33.5	100	mg/L		500	CH6	09/14/24	2017	2672160	1
Fluoride		0.692	0.132	0.400	mg/L		4	CH6	09/14/24	1946	2672160	2
Sulfate		296	26.6	80.0	mg/L		200	CH6	09/14/24	0212	2672160	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1308	2671700	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0725	2671577	5
Arsenic		0.00833	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0454	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0147	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000949	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.888	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2014	2671577	6
Calcium		72.5	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4640	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-07	Project:	GPCC00624
Sample ID:	685518004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

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: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-14	Project:	GPCC00624
Sample ID:	685518005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 15:41		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.164	0.0660	0.200	mg/L		2	CH6	09/14/24	2048	2672160	1
Chloride		1320	13.4	40.0	mg/L		200	CH6	09/14/24	0243	2672160	2
Sulfate		180	26.6	80.0	mg/L		200					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1310	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0733	2671577	4
Arsenic	J	0.00215	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0279	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		41.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0204	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.415	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2017	2671577	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2480	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-14	Project:	GPCC00624
Sample ID:	685518005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-15
Sample ID: 685518006
Matrix: WG
Collect Date: 11-SEP-24 15:35
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3.34	0.0670	0.200	mg/L		1	CH6	09/14/24	0314	2672160	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		5.75	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1311	2671700	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/24	0935	2671577	3
Boron		0.0350	0.00520	0.0150	mg/L	1.00	1					
Calcium		0.928	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00123	0.000200	0.00100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0736	2671577	4
Arsenic		0.00538	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0243	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		28.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-15	Project:	GPCC00624
Sample ID:	685518006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-16	Project:	GPCC00624
Sample ID:	685518007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 11:58		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	09/14/24	0345	2672160	1
Chloride		9.65	0.134	0.400	mg/L		2	CH6	09/14/24	2118	2672160	2
Sulfate		23.2	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1313	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0758	2671577	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0651	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0517	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.49	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		54.0	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-16	Project:	GPCC00624
Sample ID:	685518007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

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: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-18
Sample ID: 685518008
Matrix: WG
Collect Date: 11-SEP-24 09:51
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		856	13.4	40.0	mg/L		200	CH6	09/14/24	0415	2672160	1
Sulfate		149	26.6	80.0	mg/L		200					
Fluoride		0.267	0.0330	0.100	mg/L		1	CH6	09/14/24	2149	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1314	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0802	2671577	4
Arsenic	J	0.00210	0.00200	0.00500	mg/L	1.00	1					
Barium		0.123	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00225	0.000200	0.000500	mg/L	1.00	1					
Boron		0.172	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00440	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1530	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-18	Project:	GPCC00624
Sample ID:	685518008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-19
Sample ID: 685518009
Matrix: WG
Collect Date: 11-SEP-24 11:20
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4880	67.0	200	mg/L		1000	CH6	09/14/24	0446	2672160	1
Sulfate		781	133	400	mg/L		1000					
Fluoride	J	0.743	0.330	1.00	mg/L		10	CH6	09/14/24	2220	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1320	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.610	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2054	2671577	4
Calcium		127	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0806	2671577	5
Arsenic		0.0134	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0837	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0157	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00601	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0200	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0469	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9180	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-19	Project:	GPCC00624
Sample ID:	685518009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-20	Project:	GPCC00624
Sample ID:	685518010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 15:13		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		2.83	0.330	1.00	mg/L		10	CH6	09/14/24	2251	2672160	1
Chloride		4420	67.0	200	mg/L		1000	CH6	09/14/24	0619	2672160	2
Sulfate		852	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1321	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.841	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2057	2671577	4
Calcium		87.8	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0809	2671577	5
Arsenic		0.0197	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0823	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.0127	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00551	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0181	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0201	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0212	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8630	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-20	Project:	GPCC00624
Sample ID:	685518010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00624
Sample ID:	685518011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-24 10:24		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4570	67.0	200	mg/L		1000	CH6	09/14/24	0650	2672160	1
Sulfate		752	133	400	mg/L		1000					
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	09/14/24	2322	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1323	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.52	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2123	2671577	4
Calcium		162	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0813	2671577	5
Arsenic		0.0121	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0398	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0667	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000217	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00176	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8970	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00624
Sample ID:	685518011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FD-02
Sample ID: 685518012
Matrix: WQ
Collect Date: 11-SEP-24 12:00
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4500	67.0	200	mg/L		1000	CH6	09/14/24	0721	2672160	1
Sulfate		751	133	400	mg/L		1000					
Fluoride	J	0.535	0.330	1.00	mg/L		10	CH6	09/14/24	2353	2672160	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1325	2671700	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.59	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	2126	2671577	4
Calcium		165	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/24	0817	2671577	5
Arsenic		0.0126	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0412	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0696	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00164	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8260	23.8	100	mg/L			KLP1	09/18/24	1215	2673726	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00624
Sample ID:	685518012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FB-02
Sample ID: 685518013
Matrix: WQ
Collect Date: 11-SEP-24 12:05
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	09/14/24	0752	2672160	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1326	2671700	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/24	0937	2671577	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	2115	2671577	4
Arsenic	J	0.00217	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00624
Sample ID:	685518013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 4, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-EB-02
Sample ID: 685518014
Matrix: WQ
Collect Date: 11-SEP-24 12:14
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	09/14/24	0822	2672160	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1328	2671700	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	2119	2671577	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/24	0939	2671577	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/18/24	1215	2673726	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/13/24	1435	2671576
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-AP1-EB-02	Project:	GPCC00624
Sample ID:	685518014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685518**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2672160												
QC1205854609 685518002 DUP												
Chloride			16.4		16.4	mg/L	0.0292		(0%-20%)	CH6	09/14/24	17:11
Fluoride		U	ND	U	ND	mg/L	N/A				09/14/24	00:39
Sulfate			26.2		26.2	mg/L	0.026		(0%-20%)		09/14/24	17:11
QC1205854608 LCS												
Chloride	5.00				4.73	mg/L		94.5	(90%-110%)		09/13/24	19:06
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)			
QC1205854607 MB												
Chloride				U	ND	mg/L					09/13/24	18:36
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205854610 685518002 PS												
Chloride	5.00		8.22		13.9	mg/L		113*	(90%-110%)		09/14/24	17:42
Fluoride	2.50	U	ND		2.51	mg/L		101	(90%-110%)		09/14/24	01:10
Sulfate	10.0		13.1		23.4	mg/L		103	(90%-110%)		09/14/24	17:42

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671577										
QC1205853449 LCS										
Antimony	0.0500			0.0484	mg/L		96.7	(80%-120%)	PRB	09/26/24 06:26
Arsenic	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Barium	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Beryllium	0.0500			0.0551	mg/L		110	(80%-120%)		
Boron	0.100			0.111	mg/L		111	(80%-120%)		
Cadmium	0.0500			0.0492	mg/L		98.3	(80%-120%)		
Calcium	2.00			2.08	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Cobalt	0.0500			0.0491	mg/L		98.1	(80%-120%)		
Lead	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Lithium	0.0500			0.0530	mg/L		106	(80%-120%)		
Molybdenum	0.0500			0.0508	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Thallium	0.0500			0.0470	mg/L		94	(80%-120%)		

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671577										
QC1205853448 MB										
Antimony			U	ND	mg/L				PRB	09/26/24 06:23
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			J	0.000214	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **685518**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671577											
QC1205853450 685518001 MS											
Antimony	0.0500	U	ND		0.0509	mg/L		101	(75%-125%)	PRB	09/26/24 06:41
Arsenic	0.0500		0.00586		0.0553	mg/L		98.9	(75%-125%)		
Barium	0.0500		0.0868		0.137	mg/L		99.5	(75%-125%)		
Beryllium	0.0500	J	0.000200		0.0565	mg/L		113	(75%-125%)		
Boron	0.100		0.0753		0.187	mg/L		111	(75%-125%)		
Cadmium	0.0500	U	ND		0.0508	mg/L		102	(75%-125%)		
Calcium	2.00		9.60		11.7	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0485	mg/L		96.2	(75%-125%)		
Cobalt	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		
Lead	0.0500	U	ND		0.0495	mg/L		98.9	(75%-125%)		
Lithium	0.0500	U	ND		0.0540	mg/L		106	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Selenium	0.0500	U	ND		0.0491	mg/L		98.3	(75%-125%)		
Thallium	0.0500	U	ND		0.0473	mg/L		94.4	(75%-125%)		

QC Summary

Workorder: **685518**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671577											
QC1205853451 685518001 MSD											
Antimony	0.0500	U	ND		0.0513	mg/L	0.712	102	(0%-20%)	PRB	09/26/24 06:45
Arsenic	0.0500		0.00586		0.0548	mg/L	0.95	97.8	(0%-20%)		
Barium	0.0500		0.0868		0.138	mg/L	0.907	102	(0%-20%)		
Beryllium	0.0500	J	0.000200		0.0569	mg/L	0.623	113	(0%-20%)		
Boron	0.100		0.0753		0.188	mg/L	0.498	112	(0%-20%)		
Cadmium	0.0500	U	ND		0.0508	mg/L	0.146	101	(0%-20%)		
Calcium	2.00		9.60		12.0	mg/L	1.99	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0499	mg/L	2.76	98.9	(0%-20%)		
Cobalt	0.0500	U	ND		0.0494	mg/L	0.437	98.6	(0%-20%)		
Lead	0.0500	U	ND		0.0510	mg/L	3.01	102	(0%-20%)		
Lithium	0.0500	U	ND		0.0553	mg/L	2.52	109	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0527	mg/L	1.98	105	(0%-20%)		
Selenium	0.0500	U	ND		0.0492	mg/L	0.0387	98.3	(0%-20%)		
Thallium	0.0500	U	ND		0.0484	mg/L	2.23	96.6	(0%-20%)		

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671577										
QC1205853452 685518001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/26/24 06:52
Arsenic		5.86	U	ND	ug/L	N/A		(0%-20%)		
Barium		86.8		17.4	ug/L	.0403		(0%-20%)		
Beryllium	J	0.200	U	ND	ug/L	N/A		(0%-20%)		
Boron		75.3		15.6	ug/L	3.61		(0%-20%)		
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		9600		1940	ug/L	1.03		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **685518**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2671700										
QC1205853724 LCS										
Mercury	0.00200			0.00202	mg/L		101	(80%-120%)	JP2	09/16/24 12:42
QC1205853723 MB										
Mercury			U	ND	mg/L					09/16/24 12:40
QC1205853725 685379001 MS										
Mercury	0.0200	U ND		0.0203	mg/L		101	(75%-125%)		09/16/24 12:48
QC1205853726 685379001 MSD										
Mercury	0.0200	U ND		0.0202	mg/L	0.346	101	(0%-20%)		09/16/24 12:50
QC1205853727 685379001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		09/16/24 12:51
Solids Analysis										
Batch 2673726										
QC1205857772 685298009 DUP										
Total Dissolved Solids		242		239	mg/L	1.25		(0%-5%)	KLP1	09/18/24 12:15
QC1205857771 LCS										
Total Dissolved Solids	300			296	mg/L		98.7	(95%-105%)		09/18/24 12:15
QC1205857770 MB										
Total Dissolved Solids			U	ND	mg/L					09/18/24 12:15

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **685518**

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

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Technical Case Narrative
Georgia Power Company
SDG #: 685518

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671577

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671576

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

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205853448	Method Blank (MB)**ICP-MS**
1205853449	Laboratory Control Sample (LCS)
1205853452	685518001(MCM-MCM-01L) Serial Dilution (SD)
1205853450	685518001(MCM-MCM-01S) Matrix Spike (MS)
1205853451	685518001(MCM-MCM-01SD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	685518						
	003	**004**	**005**	**009**	**010**	**011**	**012**
Boron	10X	10X	10X	10X	10X	10X	10X
Calcium	10X	10X	1X	10X	10X	10X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2671700

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2671695

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

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205853723	Method Blank (MB)**CVAA**
1205853724	Laboratory Control Sample (LCS)
1205853727	685379001(NonSDGL) Serial Dilution (SD)
1205853725	685379001(NonSDGS) Matrix Spike (MS)
1205853726	685379001(NonSDGSD) Matrix Spike Duplicate (MSD)

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

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205853725 (Non SDG 685379001MS), 1205853726 (Non SDG 685379001MSD) and 1205853727 (Non SDG 685379001SDILT).

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672160

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

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205854607	Method Blank (MB)
1205854608	Laboratory Control Sample (LCS)
1205854609	685518002(MCM-MCM-02) Sample Duplicate (DUP)
1205854610	685518002(MCM-MCM-02) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205854610 (MCM-MCM-02PS)	113* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205854609 (MCM-MCM-02DUP), 1205854610 (MCM-MCM-02PS), 685518001 (MCM-MCM-01), 685518002 (MCM-MCM-02), 685518004 (MCM-MCM-07) and 685518007 (MCM-MCM-16) were diluted because target analyte concentrations exceeded the calibration range. Samples 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02) were diluted to minimize matrix effects on instrument performance. Samples 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518008 (MCM-MCM-18), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685518									
	001	**002**	**003**	**004**	**005**	**007**	**008**	**009**	**010**	**011**
Chloride	1X	2X	200X	500X	200X	2X	200X	1000X	1000X	1000X
Fluoride	1X	1X	4X	4X	2X	1X	1X	10X	10X	10X
Sulfate	4X	2X	200X	200X	200X	2X	200X	1000X	1000X	1000X

Analyte	685518
	012
Chloride	1000X
Fluoride	10X
Sulfate	1000X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2673726

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

GEL Sample ID#	Client Sample Identification
685518001	MCM-MCM-01
685518002	MCM-MCM-02
685518003	MCM-MCM-05
685518004	MCM-MCM-07
685518005	MCM-MCM-14
685518006	MCM-MCM-15
685518007	MCM-MCM-16
685518008	MCM-MCM-18
685518009	MCM-MCM-19
685518010	MCM-MCM-20
685518011	MCM-DPZ-02
685518012	MCM-AP1-FD-02
685518013	MCM-AP1-FB-02
685518014	MCM-AP1-EB-02
1205857770	Method Blank (MB)
1205857771	Laboratory Control Sample (LCS)

1205857772 685298009(NonSDG) Sample Duplicate (DUP)

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
A TDS meter was used to check the samples for approximate concentration prior to analysis. 685518003 (MCM-MCM-05), 685518004 (MCM-MCM-07), 685518005 (MCM-MCM-14), 685518008 (MCM-MCM-18), 685518009 (MCM-MCM-19), 685518010 (MCM-MCM-20), 685518011 (MCM-DPZ-02) and 685518012 (MCM-AP1-FD-02).

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.

685518 685521

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: kajurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01	9/11/24	1015	G	N	WG			4	X	X	X	X	X						
MCM-MCM-02	9/11/24	1514	G	N	WG			4	X	X	X	X	X						
MCM-MCM-04			G	N	WG				X	X	X	X	X						
MCM-MCM-05	9/11/24	1214	G	N	WG			1	X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07	9/11/24	1021	G	N	WG			4	X	X	X	X	X						
MCM-MCM-11			G	N	WG				X	X	X	X	X						
MCM-MCM-12			G	N	WG				X	X	X	X	X						
MCM-MCM-14	9/11/24	1541	G	N	WG			4	X	X	X	X	X						
MCM-MCM-15	9/11/24	1535	G	N	WG			4	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	9/12/24	1430	[signature]	9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
CCG Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-16	9/11/24	1158	G	N	WG			7	X	X	X	X	X	
MCM-MCM-17			G	N	WG				X	X	X	X	X	
MCM-MCM-18	9/11/24	0951	G	N	WG			7	X	X	X	X	X	
MCM-MCM-19	9/11/24	1120	G	N	WG			7	X	X	X	X	X	
MCM-MCM-20	9/11/24	1513	G	N	WG			7	X	X	X	X	X	
MCM-DPZ-02	9/11/24	1024	G	N	WG			7	X	X	X	X	X	
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X	
MCM-AP1-FD-02	9/11/24	—	FD	N	WQ			7	X	X	X	X	X	
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X	
MCM-AP1-FB-02	9/11/24	1205	FB	N	WQ			7	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2				2		
3				3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

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Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siegert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	<-- Preservative Type (6)
									NI	NI			NI	
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	
MCM-AP1-EB-02	9/11/24	1214	EB	N	WQ			7	X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHEM 5 - 24° RCHEM 7 - 20° RCHEM 2 - 1° 4 - 2° 6 - 23° RCHEM

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: RCHEM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

September 25, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Week 3
Work Order: 685522

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685522001	MCM-MCM-04	Ground Water	09/10/24 13:36	09/12/24 14:30
685522002	MCM-MCM-11	Ground Water	09/10/24 13:28	09/12/24 14:30
685522003	MCM-MCM-12	Ground Water	09/10/24 13:26	09/12/24 14:30
685522004	MCM-MCM-17	Ground Water	09/10/24 12:58	09/12/24 14:30
685522005	MCM-AP1-FD-01	Water	09/10/24 12:00	09/12/24 14:30
685522006	MCM-AP1-FB-01	Water	09/10/24 15:59	09/12/24 14:30
685522007	MCM-AP1-EB-01	Water	09/10/24 16:07	09/12/24 14:30

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.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	14-SEP-2024
SW846 7470A Prep	16-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-SEP-2024
EPA 300.0	18-SEP-2024
SM 2540C	17-SEP-2024
SW846 3005A/6020B	25-SEP-2024
SW846 7470A	17-SEP-2024

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. 4443.

Sincerely,

Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685522 GEL Work Order: 685522

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

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.

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, Alaina Pinnick.

Reviewed by Hannah Bowden

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

Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	685522001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 13:36		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0749	0.0330	0.100	mg/L		1	CWW	09/17/24	1558	2672211	1
Chloride		100	1.34	4.00	mg/L		20	CWW	09/18/24	0546	2672211	2
Sulfate		103	2.66	8.00	mg/L		20					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1320	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0119	2671581	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0630	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000321	0.000200	0.000500	mg/L	1.00	1					
Boron		0.131	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		9.06	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00238	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		316	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	685522001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	685522002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 13:28		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		11.2	0.134	0.400	mg/L		2	CWW	09/18/24	0722	2672211	1
Sulfate		24.3	0.266	0.800	mg/L		2					
Fluoride		0.202	0.0330	0.100	mg/L		1	CWW	09/17/24	1734	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1322	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0123	2671581	4
Arsenic		0.0163	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0301	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0483	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.36	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		79.0	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	685522002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	685522003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 13:26		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.67	0.0330	0.100	mg/L		1	CWW	09/18/24	0754	2672211	1
Sulfate		0.462	0.133	0.400	mg/L		1					
Chloride		297	3.35	10.0	mg/L		50	CWW	09/17/24	1806	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1323	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0127	2671581	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0633	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00137	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.67	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00672	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000453	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00967	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000276	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0214	2671581	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1230	23.8	100	mg/L			KLP1	09/17/24	1107	2673177	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	685522003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	685522004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-24 12:58		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.986	0.330	1.00	mg/L		10	CWW	09/18/24	0825	2672211	1
Chloride		3080	33.5	100	mg/L		500	CWW	09/17/24	1838	2672211	2
Sulfate		323	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1325	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.65	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0217	2671581	4
Calcium		57.2	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0130	2671581	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0724	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00441	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0211	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5490	23.8	100	mg/L			KLP1	09/17/24	1107	2673177	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	685522004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685522005	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-24 12:00		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.68	0.0330	0.100	mg/L		1	CWW	09/18/24	1208	2672211	1
Sulfate		0.482	0.133	0.400	mg/L		1					
Chloride		314	6.70	20.0	mg/L		100	CWW	09/17/24	1909	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1327	2672044	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.25	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0221	2671581	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0134	2671581	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0614	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00125	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.47	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00637	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000421	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00901	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000271	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1120	23.8	100	mg/L			KLP1	09/17/24	1107	2673177	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685522005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685522006	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-24 15:59		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/17/24	1941	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1328	2672044	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0137	2671581	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.0127	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685522006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685522007	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-24 16:07		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/17/24	2117	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/17/24	1330	2672044	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0141	2671581	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00610	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/17/24	1107	2673177	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/16/24	1045	2672043

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Certificate of Analysis

Report Date: September 25, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685522007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 25, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2672211												
QC1205854701 685522001 DUP												
Chloride			100		100	mg/L	0.11			(0%-20%)	CWW	09/18/24 06:18
Fluoride		J	0.0749	J	0.0787	mg/L	4.95	^		(+/-0.100)		09/17/24 16:30
Sulfate			103		102	mg/L	1.38			(0%-20%)		09/18/24 06:18
QC1205854703 685645007 DUP												
Chloride			2590		2580	mg/L	0.343			(0%-20%)		09/18/24 01:31
Fluoride		J	0.870	J	0.906	mg/L	4.05	^		(+/-2.00)		09/18/24 16:22
Sulfate			317		326	mg/L	2.64	^		(+/-200)		09/18/24 01:31
QC1205854700 LCS												
Chloride	5.00				4.75	mg/L			95	(90%-110%)		09/17/24 15:26
Fluoride	2.50				2.40	mg/L			96	(90%-110%)		
Sulfate	10.0				9.73	mg/L			97.3	(90%-110%)		
QC1205854699 MB												
Chloride				U	ND	mg/L						09/17/24 14:55
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2672211											
QC1205854702 685522001 PS											
Chloride	5.00		5.02		10.2	mg/L		103	(90%-110%)	CWW	09/18/24 06:50
Fluoride	2.50	J	0.0749		2.63	mg/L		102	(90%-110%)		09/17/24 17:02
Sulfate	10.0		5.16		14.6	mg/L		94.2	(90%-110%)		09/18/24 06:50
QC1205854704 685645007 PS											
Chloride	5.00		5.17		10.3	mg/L		103	(90%-110%)		09/18/24 02:03
Fluoride	2.50	J	0.0435		2.46	mg/L		96.9	(90%-110%)		09/18/24 16:54
Sulfate	10.0		0.635		10.2	mg/L		96.1	(90%-110%)		09/18/24 02:03
Metals Analysis - ICPMS											
Batch 2671581											
QC1205853454 LCS											
Antimony	0.0500				0.0495	mg/L		98.9	(80%-120%)	PRB	09/25/24 00:50
Arsenic	0.0500				0.0490	mg/L		98	(80%-120%)		
Barium	0.0500				0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500				0.0568	mg/L		114	(80%-120%)		
Boron	0.100				0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500				0.0507	mg/L		101	(80%-120%)		
Calcium	2.00				2.17	mg/L		109	(80%-120%)		

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)	PRB	09/25/24 00:50
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0514	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0488	mg/L		97.7	(80%-120%)		
QC1205853453 MB										
Antimony			U	ND	mg/L					09/25/24 00:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Chromium				U	ND	mg/L				PRB	09/25/24 00:47
Cobalt				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205853455 685517001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)		09/25/24 00:57
Arsenic	0.0500		0.107		0.152	mg/L		90.1	(75%-125%)		
Barium	0.0500		0.0727		0.121	mg/L		96.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Boron	0.100		0.745		0.804	mg/L		N/A	(75%-125%)		09/25/24 01:56
Cadmium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/25/24 00:57
Calcium	2.00		134		129	mg/L		N/A	(75%-125%)		09/25/24 01:56

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Chromium	0.0500	U	ND		0.0470	mg/L		92.8	(75%-125%)	PRB	09/25/24 00:57
Cobalt	0.0500	U	ND		0.0445	mg/L		88.8	(75%-125%)		
Lead	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
Lithium	0.0500		0.0550		0.108	mg/L		106	(75%-125%)		
Molybdenum	0.0500	J	0.000895		0.0541	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0196	mg/L		37.7*	(75%-125%)		
Thallium	0.0500	U	ND		0.0432	mg/L		86.2	(75%-125%)		
QC1205853456 685517001 MSD											
Antimony	0.0500	U	ND		0.0472	mg/L	1.65	93.7	(0%-20%)		09/25/24 01:01
Arsenic	0.0500		0.107		0.154	mg/L	1.3	94.1	(0%-20%)		
Barium	0.0500		0.0727		0.120	mg/L	1.05	94.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0488	mg/L	3.74	97.5	(0%-20%)		
Boron	0.100		0.745		0.837	mg/L	4.04	N/A	(0%-20%)		09/25/24 01:59
Cadmium	0.0500	U	ND		0.0431	mg/L	1.76	86.2	(0%-20%)		09/25/24 01:01
Calcium	2.00		134		132	mg/L	2.6	N/A	(0%-20%)		09/25/24 01:59

QC Summary

Workorder: **685522**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Chromium	0.0500	U	ND		0.0470	mg/L	0.113	92.9	(0%-20%)	PRB	09/25/24 01:01
Cobalt	0.0500	U	ND		0.0444	mg/L	0.374	88.5	(0%-20%)		
Lead	0.0500	U	ND		0.0441	mg/L	2.29	88.1	(0%-20%)		
Lithium	0.0500		0.0550		0.103	mg/L	4.68	96.4	(0%-20%)		
Molybdenum	0.0500	J	0.000895		0.0537	mg/L	0.663	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0203	mg/L	3.4	39*	(0%-20%)		
Thallium	0.0500	U	ND		0.0427	mg/L	1.09	85.3	(0%-20%)		
QC1205865427 685517001 PS											
Selenium	50.0	U	ND		48.3	ug/L		95	(75%-125%)		09/25/24 01:05
QC1205853457 685517001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Arsenic			107		24.5	ug/L	14.6		(0%-20%)		
Barium			72.7		15.7	ug/L	8.04		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			74.5		15.9	ug/L	6.47		(0%-20%)		09/25/24 02:03
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Calcium		13400		2530	ug/L	5.23		(0%-20%)	PRB	09/25/24 02:03
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		55.0		10.4	ug/L	5.23		(0%-20%)		
Molybdenum	J	0.895	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2672044										
QC1205854435 685197001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/17/24 11:46
QC1205854434 LCS										
Mercury 0.00200				0.00207	mg/L		104	(80%-120%)		09/17/24 11:43
QC1205854433 MB										
Mercury			U	ND	mg/L					09/17/24 11:41
QC1205854436 685197001 MS										
Mercury 0.00200	U	ND		0.00196	mg/L		97.9	(75%-125%)		09/17/24 11:48

QC Summary

Workorder: **685522**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2672044											
QC1205854437 685197001 SDILT											
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	09/17/24	11:49
Solids Analysis											
Batch 2673177											
QC1205856808 685306001 DUP											
Total Dissolved Solids		398		393	mg/L	1.26		(0%-5%)	KLP1	09/17/24	11:07
QC1205856806 LCS											
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		09/17/24	11:07
QC1205856805 MB											
Total Dissolved Solids			U	ND	mg/L					09/17/24	11:07

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

QC Summary

Workorder: **685522**

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

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

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

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

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.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671579

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

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205853453	Method Blank (MB)**ICP-MS**
1205853454	Laboratory Control Sample (LCS)
1205853457	685517001(MCM-MCM-06L) Serial Dilution (SD)
1205853455	685517001(MCM-MCM-06S) Matrix Spike (MS)
1205853456	685517001(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205865427	685517001(MCM-MCM-06PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205853455 (MCM-MCM-06MS)	Selenium	37.7* (75%-125%)
1205853456 (MCM-MCM-06MSD)	Selenium	39* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685522003 (MCM-MCM-12), 685522004 (MCM-MCM-17) and 685522005 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	685522		
	003	**004**	**005**
Boron	10X	10X	10X
Calcium	1X	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2672044

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2672043

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

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205854433	Method Blank (MB)**CVAA**
1205854434	Laboratory Control Sample (LCS)
1205854437	685197001(NonSDGL) Serial Dilution (SD)
1205854435	685197001(NonSDGD) Sample Duplicate (DUP)
1205854436	685197001(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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672211

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

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205854699	Method Blank (MB)
1205854700	Laboratory Control Sample (LCS)
1205854701	685522001(MCM-MCM-04) Sample Duplicate (DUP)
1205854702	685522001(MCM-MCM-04) Post Spike (PS)
1205854703	685645007(MCM-DR-02) Sample Duplicate (DUP)
1205854704	685645007(MCM-DR-02) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205854701 (MCM-MCM-04DUP), 1205854702 (MCM-MCM-04PS), 685522001 (MCM-MCM-04) and 685522002 (MCM-MCM-11) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS) and 685522004 (MCM-MCM-17) were diluted to minimize matrix effects on instrument performance. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685522003 (MCM-MCM-12), 685522004 (MCM-MCM-17) and 685522005 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685522				
	001	**002**	**003**	**004**	**005**
Chloride	20X	2X	50X	500X	100X
Fluoride	1X	1X	1X	10X	1X
Sulfate	20X	2X	1X	500X	1X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2673177

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

GEL Sample ID#	Client Sample Identification
685522001	MCM-MCM-04
685522002	MCM-MCM-11
685522003	MCM-MCM-12
685522004	MCM-MCM-17
685522005	MCM-AP1-FD-01
685522006	MCM-AP1-FB-01
685522007	MCM-AP1-EB-01
1205856805	Method Blank (MB)
1205856806	Laboratory Control Sample (LCS)
1205856808	685306001(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 685522003 (MCM-MCM-12), 685522004 (MCM-MCM-17) and 685522005 (MCM-AP1-FD-01).

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.

685522 685524

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04	9/10/24	1336	G	N	WG			7	X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11	9/10/24	1328	G	N	WG			7	X	X	X	X	X						
MCM-MCM-12	9/10/24	1326	G	N	WG			7	X	X	X	X	X						
MCM-MCM-14			G	N	WG				X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siefert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-MCM-16			G	N	WG				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-17	9/10/24	1258	G	N	WG			7	X	X	X	X	X		
MCM-MCM-18			G	N	WG				X	X	X	X	X		
MCM-MCM-19			G	N	WG				X	X	X	X	X		
MCM-MCM-20			G	N	WG				X	X	X	X	X		
MCM-DPZ-02			G	N	WG				X	X	X	X	X		
MCM-AP1-FD-01	9/10/24	—	FD	N	WQ			7	X	X	X	X	X		
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X		
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X		
MCM-AP1-FB-01	9/10/24	1559	FB	N	WQ			7	X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page 33 of 36
665522

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (if yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Ilg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	NI	NI	NI	<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X					Note: extra sample is required for sample specific QC
MCM-AP1-EB-01	9/10/24	1607	EB	N	WQ			7	X	X	X	X	X					
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X					

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 9/12/24	1430	1	9/12/24	9430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~**Dissolved Fe, Mn are the only Field Filtered Samples**~~

Page 3 of 3 for DUP-565522

GEL Laboratories LLC

685517 685519 AP
685518 685521
685522 685524

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHRm 5 - 24° RCHRm 7 - 20° RCHRm 2 - 1° 4 - 2° 6 - 23° RCHRm

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: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 25 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685517

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the previous revision noted as SDG number 685517 Rev01 in the left-hand footer of the data report. Revision 02 updates the Project ID to align with the Chain of Custody, adds Dissolved to the Metals product ID, and includes Total Calcium reporting for GEL Sample ID 685517001.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The sample ID 'MCM-MCM-06' was removed from the chain of custody associated with GEL WO 685645 per client request. This data report provides a single result for analyses request on both the CCR Groundwater Compliance September 2024 and the rev 1 version of the 3-Week Sampling September 2024 chains of custody. Data is reported under the CCR Groundwater Compliance project name per client direction. The Radium-226/228 analysis was reported under WO 685519. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685517001	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30
685517002	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30

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.

Prep Methods and Prep Dates

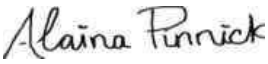
Method	Run Date ID
SW846 3005A	14-SEP-2024
SW846 3005A	16-SEP-2024
SW846 7470A Prep	13-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-SEP-2024
EPA 300.0	14-SEP-2024
SM 2540C	19-SEP-2024
SW846 3005A/6020B	25-SEP-2024
SW846 3005A/6020B	27-SEP-2024
SW846 7470A	16-SEP-2024
SW846 7470A	19-SEP-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685517 GEL Work Order: 685517

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

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.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.392	0.132	0.400	mg/L		4	CH6	09/14/24	1508	2672160	1
Chloride		3240	33.5	100	mg/L		500	CH6	09/14/24	1539	2672160	2
Sulfate		271	26.6	80.0	mg/L		200	CH6	09/13/24	2205	2672160	3
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1301	2671700	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0054	2671581	5
Arsenic		0.107	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0727	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0435	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0550	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000895	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.745	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0145	2671581	6
Calcium		134	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5340	23.8	100	mg/L			KLP1	09/19/24	1453	2674517	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1235	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Total Metals "As Received"												
Boron		0.680	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1311	2672440	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1255	2672440	3
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0776	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0445	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0518	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000486	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00172	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

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: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2672160												
QC1205854609 685518002 DUP												
Chloride			16.4		16.4	mg/L	0.0292		(0%-20%)	CH6	09/14/24	17:11
Fluoride		U	ND	U	ND	mg/L	N/A				09/14/24	00:39
Sulfate			26.2		26.2	mg/L	0.026		(0%-20%)		09/14/24	17:11
QC1205854608 LCS												
Chloride	5.00				4.73	mg/L		94.5	(90%-110%)		09/13/24	19:06
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)			
QC1205854607 MB												
Chloride				U	ND	mg/L					09/13/24	18:36
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205854610 685518002 PS												
Chloride	5.00		8.22		13.9	mg/L		113*	(90%-110%)		09/14/24	17:42
Fluoride	2.50	U	ND		2.51	mg/L		101	(90%-110%)		09/14/24	01:10
Sulfate	10.0		13.1		23.4	mg/L		103	(90%-110%)		09/14/24	17:42

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
QC1205853454 LCS										
Antimony	0.0500			0.0495	mg/L		98.9	(80%-120%)	PRB	09/25/24 00:50
Arsenic	0.0500			0.0490	mg/L		98	(80%-120%)		
Barium	0.0500			0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0568	mg/L		114	(80%-120%)		
Boron	0.100			0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		
Calcium	2.00			2.17	mg/L		109	(80%-120%)		
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Iron	2.00			1.99	mg/L		99.6	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0514	mg/L		103	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Thallium	0.0500			0.0488	mg/L		97.7	(80%-120%)	PRB	09/25/24 00:50
QC1205853453 MB										
Antimony			U	ND	mg/L					09/25/24 00:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Selenium				U	ND	mg/L				PRB	09/25/24 00:47
Thallium				U	ND	mg/L					
QC1205853455 685517001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)		09/25/24 00:57
Arsenic	0.0500		0.107		0.152	mg/L		90.1	(75%-125%)		
Barium	0.0500		0.0727		0.121	mg/L		96.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Boron	0.100		0.745		0.804	mg/L		N/A	(75%-125%)		09/25/24 01:56
Cadmium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/25/24 00:57
Calcium	2.00		134		129	mg/L		N/A	(75%-125%)		09/25/24 01:56
Chromium	0.0500	U	ND		0.0470	mg/L		92.8	(75%-125%)		09/25/24 00:57
Cobalt	0.0500	U	ND		0.0445	mg/L		88.8	(75%-125%)		
Iron	2.00	J	0.0435		1.85	mg/L		90.3	(75%-125%)		
Lead	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
Lithium	0.0500		0.0550		0.108	mg/L		106	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Molybdenum	0.0500	J	0.000895		0.0541	mg/L		106	(75%-125%)	PRB	09/25/24 00:57
Selenium	0.0500	U	ND		0.0196	mg/L		37.7*	(75%-125%)		
Thallium	0.0500	U	ND		0.0432	mg/L		86.2	(75%-125%)		
QC1205853456 685517001 MSD											
Antimony	0.0500	U	ND		0.0472	mg/L	1.65	93.7	(0%-20%)		09/25/24 01:01
Arsenic	0.0500		0.107		0.154	mg/L	1.3	94.1	(0%-20%)		
Barium	0.0500		0.0727		0.120	mg/L	1.05	94.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0488	mg/L	3.74	97.5	(0%-20%)		
Boron	0.100		0.745		0.837	mg/L	4.04	N/A	(0%-20%)		09/25/24 01:59
Cadmium	0.0500	U	ND		0.0431	mg/L	1.76	86.2	(0%-20%)		09/25/24 01:01
Calcium	2.00		134		132	mg/L	2.6	N/A	(0%-20%)		09/25/24 01:59
Chromium	0.0500	U	ND		0.0470	mg/L	0.113	92.9	(0%-20%)		09/25/24 01:01
Cobalt	0.0500	U	ND		0.0444	mg/L	0.374	88.5	(0%-20%)		
Iron	2.00	J	0.0435		1.86	mg/L	0.377	90.7	(0%-20%)		
Lead	0.0500	U	ND		0.0441	mg/L	2.29	88.1	(0%-20%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
Lithium	0.0500		0.0550		0.103	mg/L	4.68	96.4	(0%-20%)	PRB	09/25/24 01:01
Molybdenum	0.0500	J	0.000895		0.0537	mg/L	0.663	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0203	mg/L	3.4	39*	(0%-20%)		
Thallium	0.0500	U	ND		0.0427	mg/L	1.09	85.3	(0%-20%)		
QC1205865427 685517001 PS											
Selenium	50.0	U	ND		48.3	ug/L		95	(75%-125%)		09/25/24 01:05
QC1205853457 685517001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Arsenic			107		24.5	ug/L	14.6		(0%-20%)		
Barium			72.7		15.7	ug/L	8.04		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			74.5		15.9	ug/L	6.47		(0%-20%)		09/25/24 02:03
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Calcium			13400		2530	ug/L	5.23		(0%-20%)		09/25/24 02:03
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24 01:08
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Iron	J	43.5	U	ND	ug/L	N/A		(0%-20%)	PRB	09/25/24 01:08
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		55.0		10.4	ug/L	5.23		(0%-20%)		
Molybdenum	J	0.895	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2672440										
QC1205855318 LCS										
Antimony	0.0500			0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500			0.0480	mg/L		96	(80%-120%)		
Barium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500			0.0552	mg/L		110	(80%-120%)		
Boron	0.100			0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500			0.0486	mg/L		97.2	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Iron	2.00			1.93	mg/L		96.6	(80%-120%)	PRB	09/27/24 11:19
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)		
QC1205855317 MB										
Antimony			U	ND	mg/L					09/27/24 11:16
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Iron				U	ND	mg/L				PRB	09/27/24 11:16
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				J	0.000211	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205855319 685645001 MS											
Antimony	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND		0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640		0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0466	mg/L		93.2	(75%-125%)		
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Iron	2.00		118		120	mg/L		N/A	(75%-125%)	PRB	09/27/24	11:25
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)			
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)			
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)			
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)			
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)			
QC1205855320 685645001 MSD												
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24	11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)			
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)			
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)			
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)			
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)	PRB	09/27/24	11:28
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)			
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)			
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)			
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)			
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)			
QC1205855321 685645001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24	11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			84.8		16.7	ug/L	1.6		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Iron		23700		4810	ug/L	1.69		(0%-20%)	PRB	09/27/24 11:34
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.394	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2671700										
QC1205853724 LCS										
Mercury 0.00200				0.00202	mg/L		101	(80%-120%)	JP2	09/16/24 12:42
QC1205853723 MB										
Mercury			U	ND	mg/L					09/16/24 12:40
QC1205853725 685379001 MS										
Mercury 0.0200	U	ND		0.0203	mg/L		101	(75%-125%)		09/16/24 12:48
QC1205853726 685379001 MSD										
Mercury 0.0200	U	ND		0.0202	mg/L	0.346	101	(0%-20%)		09/16/24 12:50
QC1205853727 685379001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/16/24 12:51

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury	0.00200			0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59
QC1205857287 685645001 MS										
Mercury	0.00200 U	ND		0.00184	mg/L		92.2	(75%-125%)		09/19/24 12:09
QC1205857288 685645001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/19/24 12:10
Solids Analysis										
Batch 2674517										
QC1205859366 685705001 DUP										
Total Dissolved Solids		516		516	mg/L	0		(0%-5%)	KLP1	09/19/24 14:53
QC1205859365 LCS										
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/19/24 14:53
QC1205859364 MB										
Total Dissolved Solids			U	ND	mg/L					09/19/24 14:53

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **685517**

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

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Technical Case Narrative
Georgia Power Company
SDG #: 685517

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671579

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853453	Method Blank (MB)**ICP-MS**
1205853454	Laboratory Control Sample (LCS)
1205853457	685517001(MCM-MCM-06L) Serial Dilution (SD)
1205853455	685517001(MCM-MCM-06S) Matrix Spike (MS)
1205853456	685517001(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205865427	685517001(MCM-MCM-06PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205853455 (MCM-MCM-06MS)	Selenium	37.7* (75%-125%)
1205853456 (MCM-MCM-06MSD)	Selenium	39* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517001 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**685517**
	001
Boron	10X
Calcium	10X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

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

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(NonSDGL) Serial Dilution (SD)
1205855319	685645001(NonSDGS) Matrix Spike (MS)
1205855320	685645001(NonSDGSD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517002 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	685517
	002
Boron	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2671700

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2671695

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853723	Method Blank (MB)**CVAA**
1205853724	Laboratory Control Sample (LCS)
1205853727	685379001(NonSDGL) Serial Dilution (SD)
1205853725	685379001(NonSDGS) Matrix Spike (MS)
1205853726	685379001(NonSDGSD) Matrix Spike Duplicate (MSD)

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

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205853725 (Non SDG 685379001MS), 1205853726 (Non SDG 685379001MSD) and 1205853727 (Non SDG 685379001SDILT).

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

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

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(NonSDGL) Serial Dilution (SD)
1205857286	685645001(NonSDGD) Sample Duplicate (DUP)
1205857287	685645001(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.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672160

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205854607	Method Blank (MB)
1205854608	Laboratory Control Sample (LCS)
1205854609	685518002(MCM-MCM-02) Sample Duplicate (DUP)
1205854610	685518002(MCM-MCM-02) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205854610 (MCM-MCM-02PS)	113* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205854609 (MCM-MCM-02DUP), 1205854610 (MCM-MCM-02PS) and 685517001 (MCM-MCM-06) were diluted because target analyte concentrations exceeded the calibration range. Sample 685517001 (MCM-MCM-06) was diluted to minimize matrix effects on instrument performance. Sample 685517001 (MCM-MCM-06) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**685517001**
Chloride	500X
Fluoride	4X
Sulfate	200X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2674517

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

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205859364	Method Blank (MB)
1205859365	Laboratory Control Sample (LCS)
1205859366	685705001(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 685517001 (MCM-MCM-06).

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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-INW-01~~	09-12-24	1210	G	Y*	WG			3	X	X	X	Comments: Note: extra sample is required for sample specific QC
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
~~MCM-PT-01~~	09-12-24	1157	G	Y*	WG			3	X	X	X	
~~MCM-PT-02~~	09-12-24	1431	G	Y*	WG			3	X	X	X	
~~MCM-PT-03~~	09-12-24	1350	G	Y*	WG			3	X	X	X	
~~MCM-DR-01~~	09-12-24	1324	G	Y*	WG			3	X	X	X	
~~MCM-DR-02~~	09-12-24	1508	G	Y*	WG			3	X	X	X	
~~MCM-DR-03~~	09-12-24	1047	G	Y*	WG			3	X	X	X	
~~MCM-AP1-FD-01~~	09-12-24	----	FD	Y*	WG			3	X	X	X	
~~MCM-AP1-FB-01~~	09-12-24	1310	FB	N	WQ			2	X		X	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number** = Client Determined

2.) **QC Codes: N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

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Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
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Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-AP1-EB-01~~	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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2.) **QC Codes: N = Normal Sample, TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

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FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 29 of 42 SDG: 685517 Rev2

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number:

GEL Project Manager: Erin Trent

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04			G	N	WG				X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11			G	N	WG				X	X	X	X	X						
MCM-MCM-12			G	N	WG				X	X	X	X	X						
MCM-MCM-14			G	N	WG				X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 1 23756557

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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FL = Flammable/Ignitable
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*.~~

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

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MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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~~***Dissolved Fe, Mn are the only Field Filterd Samples***~~

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHTRM 5 - 24° RCHTRM 7 - 20° RCHTRM 2 - 1° 4 - 2° 6 - 23° RCHTRM

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 RCHTRM TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent | Nicholas Pinnix

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 1 23765577

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Project # GPCC00105
GEL Quote #: GELP22-0819
QAC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ ***°C***

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~.

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field-Filterd Samples**~~

Page 36 of 42 SDG 680517 Rev2

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18 RCHRM 5 - 24° RCHRM 7 - 20° RCHRM 2 - 1° 4 - 2° 6 - 23° RCHRM

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: RCHRM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

Alaina Pinnick

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 12:32 PM
To: Alaina Pinnick; Team Pinnick; Will James; Midkiff, Laura B.; Kristen Jurinko (knjurink@southernco.com); Hodges, John Benjamin; Farris, Kathryn
Cc: Trent Godwin; William Laaker; Natalie Piparo
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

That will be fine. Thanks for the clarification.

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Friday, October 4, 2024 12:31 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good morning,

I want to clarify, we did transfer the Radium 226/228 for MCM-06 to a unique WO separate from 688517 since we log these separately upon receipt.

This is currently being reported under WO 688519, I have attached the Login Review for WO 688519. Please let us know if this is acceptable or if you would prefer the data to be transferred to WO 688517 as well.

Thank you,
Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 8:30 AM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

Please find a few clarifications (provided by Laura Midkiff) to the list you provided yesterday. Please proceed with the analysis and I will reach out to the SCS/GPC team to confirm if a compiled revised COC should be provided. Thanks for your help.

Arsenic (total & dissolved)
Barium (total & dissolved)
Beryllium (total & dissolved)
Boron (total & dissolved)
Cadmium (total & dissolved)
Calcium (total)
Chromium (total & dissolved)
Cobalt (total & dissolved)
Iron (total & dissolved)
Lead (total & dissolved)
Lithium (total & dissolved)
Mercury (total & dissolved)
Molybdenum (total & dissolved)
Antimony (total & dissolved)
Selenium (total & dissolved)
Thallium (total & dissolved)
Chloride
Fluoride

Sulfate
TDS
Radium 226/228

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Thursday, October 3, 2024 5:58 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good afternoon,

I wanted to summarize our discussion regarding sample ID MCM-06. Per your request, we will be combining the two parameter lists from the reporting lists referenced for the COC projects “Plant McManus CCR Groundwater Compliance Sept. 2024” and “Plant McManus 3-Week Sampling September 2024”, and reporting them together. This sample ID will be reported under the project ID ”Plant McManus CCR Groundwater Compliance Sept. 2024”.

The combined parameter list includes the following:

Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Iron
Lead
Lithium

Mercury
Molybdenum
Antimony
Selenium
Thallium

Please note that this request deviates from our standard practice, which typically involves referring only to the revised chain of custody. To ensure we proceed correctly, please provide confirmation to move forward with this parameter list.

Let us know if this is acceptable or if any additional adjustments are needed.

Thank you,
Alaina Pinnick
Project Manager
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

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List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
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2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Week 3
Work Order: 685521

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685521001	MCM-MCM-01	Ground Water	09/11/24 10:15	09/12/24 14:30
685521002	MCM-MCM-02	Ground Water	09/11/24 15:14	09/12/24 14:30
685521003	MCM-MCM-05	Ground Water	09/11/24 12:14	09/12/24 14:30
685521004	MCM-MCM-07	Ground Water	09/11/24 10:21	09/12/24 14:30
685521005	MCM-MCM-14	Ground Water	09/11/24 15:41	09/12/24 14:30
685521006	MCM-MCM-15	Ground Water	09/11/24 15:35	09/12/24 14:30
685521007	MCM-MCM-16	Ground Water	09/11/24 11:58	09/12/24 14:30
685521008	MCM-MCM-18	Ground Water	09/11/24 09:51	09/12/24 14:30
685521009	MCM-MCM-19	Ground Water	09/11/24 11:20	09/12/24 14:30
685521010	MCM-MCM-20	Ground Water	09/11/24 15:13	09/12/24 14:30
685521011	MCM-DPZ-02	Ground Water	09/11/24 10:24	09/12/24 14:30
685521012	MCM-AP1-FD-02	Ground Water	09/11/24 12:00	09/12/24 14:30
685521013	MCM-AP1-FB-02	Water	09/11/24 12:05	09/12/24 14:30
685521014	MCM-AP1-EB-02	Water	09/11/24 12:14	09/12/24 14:30

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.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	30-SEP-2024
EPA 903.1 Modified	25-SEP-2024
EPA 904.0/SW846 9320 Modified	25-SEP-2024
EPA 904.0/SW846 9320 Modified	28-SEP-2024

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. 4443.

Sincerely,

Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685521 GEL Work Order: 685521

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, Alaina Pinnick.

Reviewed by Hannah Bowden

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-01
Sample ID: 685521001
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.360	+/-0.817	1.48	+/-0.822	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.61	+/-1.10	1.48	+/-1.15		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.25	+/-0.738	0.361	+/-0.811	1.00	pCi/L			MJ2	09/25/24	0805	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	81.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-02
Sample ID: 685521002
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.30	+/-1.34	2.22	+/-1.38	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.28	+/-1.75	2.22	+/-1.94		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.99	+/-1.13	0.690	+/-1.37	1.00	pCi/L			MJ2	09/25/24	0805	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	89.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-05
Sample ID: 685521003
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.83	+/-1.07	1.57	+/-1.17	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.55	+/-1.16	1.57	+/-1.26		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.722	+/-0.435	0.483	+/-0.460	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	86.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-07
Sample ID: 685521004
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.19	+/-1.26	1.55	+/-1.50	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.35	+/-1.42	1.55	+/-1.70		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.16	+/-0.662	0.304	+/-0.788	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-14
Sample ID: 685521005
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.75	+/-1.36	2.18	+/-1.43	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.40	+/-1.52	2.18	+/-1.60		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.65	+/-0.681	0.484	+/-0.722	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	85.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
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Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-15
Sample ID: 685521006
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.36	+/-1.34	2.21	+/-1.38	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.32	+/-1.55	2.21	+/-1.73		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.97	+/-0.784	0.475	+/-1.04	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	88.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-16
Sample ID: 685521007
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0284	+/-0.873	1.69	+/-0.873	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.89	+/-1.11	1.69	+/-1.19		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.89	+/-0.681	0.428	+/-0.809	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	82.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-18
Sample ID: 685521008
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.87	+/-1.54	1.77	+/-2.15	3.00	pCi/L			KP1	09/28/24	1030	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		9.30	+/-1.76	1.77	+/-2.43		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.43	+/-0.836	0.365	+/-1.14	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-19
Sample ID: 685521009
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		9.79	+/-2.18	2.57	+/-3.32	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		15.5	+/-2.50	2.57	+/-3.69		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		5.71	+/-1.23	0.584	+/-1.62	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-MCM-20
Sample ID: 685521010
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		27.0	+/-3.13	2.29	+/-7.56	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		29.4	+/-3.21	2.29	+/-7.61		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.48	+/-0.717	0.311	+/-0.897	1.00	pCi/L			MJ2	09/25/24	0842	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	76.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-DPZ-02
Sample ID: 685521011
Matrix: WG
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.76	+/-1.43	2.01	+/-1.72	3.00	pCi/L			KP1	09/28/24	1030	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		7.95	+/-1.74	2.01	+/-2.13		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.19	+/-0.987	0.465	+/-1.25	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	92.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-AP1-FD-02
Sample ID: 685521012
Matrix: WQ
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.978	+/-1.53	2.64	+/-1.55	3.00	pCi/L			KP1	09/25/24	1459	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.43	+/-1.80	2.64	+/-1.94		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		4.46	+/-0.945	0.519	+/-1.17	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-AP1-FB-02
Sample ID: 685521013
Matrix: WQ
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.77	+/-1.48	2.40	+/-1.55	3.00	pCi/L			KP1	09/25/24	1503	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.04	+/-1.51	2.40	+/-1.58		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.267	+/-0.302	0.471	+/-0.308	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 30, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceWeek 3

Client Sample ID: MCM-AP1-EB-02
Sample ID: 685521014
Matrix: WQ
Collect Date: 11-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.764	+/-1.36	2.36	+/-1.37	3.00	pCi/L			KP1	09/25/24	1503	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.00	+/-1.38	2.36	+/-1.40		pCi/L		1	LXB3	09/30/24	0932	2672836	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.237	+/-0.273	0.396	+/-0.277	1.00	pCi/L			MJ2	09/25/24	0917	2672288	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2672836

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

GEL Sample ID#	Client Sample Identification
685521001	MCM-MCM-01
685521002	MCM-MCM-02
685521003	MCM-MCM-05
685521004	MCM-MCM-07
685521005	MCM-MCM-14
685521006	MCM-MCM-15
685521007	MCM-MCM-16
685521008	MCM-MCM-18
685521009	MCM-MCM-19
685521010	MCM-MCM-20
685521011	MCM-DPZ-02
685521012	MCM-AP1-FD-02
685521013	MCM-AP1-FB-02
685521014	MCM-AP1-EB-02

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: 2672820

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

GEL Sample ID#	Client Sample Identification
685521001	MCM-MCM-01
685521002	MCM-MCM-02
685521003	MCM-MCM-05
685521004	MCM-MCM-07
685521005	MCM-MCM-14
685521006	MCM-MCM-15
685521007	MCM-MCM-16
685521008	MCM-MCM-18

685521009	MCM-MCM-19
685521010	MCM-MCM-20
685521011	MCM-DPZ-02
685521012	MCM-AP1-FD-02
685521013	MCM-AP1-FB-02
685521014	MCM-AP1-EB-02
1205856157	Method Blank (MB)
1205856158	685519001(MCM-MCM-06) Sample Duplicate (DUP)
1205856159	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1205856157 (MB)	Radium-228	Result: 2.48 pCi/L > MDA: 1.29 pCi/L <= RDL: 3.00 pCi/L

Technical Information

Recounts
Samples 685521008 (MCM-MCM-18) and 685521011 (MCM-DPZ-02) 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: 2672288

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

GEL Sample ID#	Client Sample Identification
685521001	MCM-MCM-01
685521002	MCM-MCM-02
685521003	MCM-MCM-05
685521004	MCM-MCM-07
685521005	MCM-MCM-14
685521006	MCM-MCM-15
685521007	MCM-MCM-16
685521008	MCM-MCM-18
685521009	MCM-MCM-19
685521010	MCM-MCM-20
685521011	MCM-DPZ-02

685521012	MCM-AP1-FD-02
685521013	MCM-AP1-FB-02
685521014	MCM-AP1-EB-02
1205854953	Method Blank (MB)
1205854954	684753001(NonSDG) Sample Duplicate (DUP)
1205854955	684753001(NonSDG) Matrix Spike (MS)
1205854956	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, 1205854955 (Non SDG 684753001MS), 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.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685521**

Report Date: September 30, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2672820										
QC1205856158 685519001 DUP										
Radium-228		3.25		2.64	pCi/L	20.5		(0% - 100%)	KP1	09/25/2415:03
	Uncert:	+/-1.56		+/-1.18						
	TPU:	+/-1.76		+/-1.36						
QC1205856159 LCS										
Radium-228	69.6			81.7	pCi/L		117	(75%-125%)	KP1	09/25/2415:03
	Uncert:			+/-4.66						
	TPU:			+/-21.3						
QC1205856157 MB										
Radium-228				2.48	pCi/L				KP1	09/25/2415:03
	Uncert:			+/-1.01						
	TPU:			+/-1.19						
Rad Ra-226										
Batch 2672288										
QC1205854954 684753001 DUP										
Radium-226		1.39		1.87	pCi/L	29.4		(0% - 100%)	MJ2	09/25/2409:17
	Uncert:	+/-0.618		+/-0.653						
	TPU:	+/-0.661		+/-0.780						
QC1205854956 LCS										
Radium-226	27.2			31.2	pCi/L		115	(75%-125%)	MJ2	09/25/2409:17
	Uncert:			+/-2.86						
	TPU:			+/-5.59						
QC1205854953 MB										
Radium-226			U	0.408	pCi/L				MJ2	09/25/2409:17
	Uncert:			+/-0.361						
	TPU:			+/-0.369						
QC1205854955 684753001 MS										
Radium-226	131	1.39		152	pCi/L		116	(75%-125%)	MJ2	09/25/2409:17
	Uncert:	+/-0.618		+/-13.7						
	TPU:	+/-0.661		+/-26.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **685521**

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

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.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence 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.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

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685518 685521

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	NI			NI						<-- Preservative Type (6)
									Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228						
MCM-MCM-01	9/11/24	1015	G	N	WG			1	X	X	X	X	X						
MCM-MCM-02	9/11/24	1514	G	N	WG			1	X	X	X	X	X						
MCM-MCM-04			G	N	WG				X	X	X	X	X						
MCM-MCM-05	9/11/24	1214	G	N	WG			1	X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07	9/11/24	1021	G	N	WG			1	X	X	X	X	X						
MCM-MCM-11			G	N	WG				X	X	X	X	X						
MCM-MCM-12			G	N	WG				X	X	X	X	X						
MCM-MCM-14	9/11/24	1541	G	N	WG			1	X	X	X	X	X						
MCM-MCM-15	9/11/24	1535	G	N	WG			1	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental 9/12/24	1430	1	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * *For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16	9/11/24	1158	G	N	WG			7	X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18	9/11/24	0951	G	N	WG			7	X	X	X	X	X						
MCM-MCM-19	9/11/24	1120	G	N	WG			7	X	X	X	X	X						
MCM-MCM-20	9/11/24	1513	G	N	WG			7	X	X	X	X	X						
MCM-DPZ-02	9/11/24	1024	G	N	WG			7	X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02	9/11/24	—	FD	N	WQ			7	X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-02	9/11/24	1205	FB	N	WQ			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	1	9/12/24	1430
2				2		
3				3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page 88 of 88 ID# 168521

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siefert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-02	9/11/24	1214	EB	N	WQ			7	X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level I [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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Cr = Chromium **MR**= Misc. RCRA metals
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Characteristic Hazards
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

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685517 685519
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHRM 5 - 24° RCHRM 7 - 20° RCHRM 2 - 1° 4 - 2° 6 - 23° RCHRM

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: RCHRM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685524

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 685524 in the left-hand footer of the data report. Revision 01 updates the Project ID to match the Chain of Custody.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Radium 226/228 is reported in this data package. All other analyses requested on the chain of custody were reported under GEL WO 685522. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685524001	MCM-MCM-04	Ground Water	09/10/24 13:36	09/12/24 14:30
685524002	MCM-MCM-11	Ground Water	09/10/24 13:28	09/12/24 14:30
685524003	MCM-MCM-12	Ground Water	09/10/24 13:26	09/12/24 14:30
685524004	MCM-MCM-17	Ground Water	09/10/24 12:58	09/12/24 14:30
685524005	MCM-AP1-FD-01	Water	09/10/24 12:00	09/12/24 14:30
685524006	MCM-AP1-FB-01	Water	09/10/24 15:59	09/12/24 14:30
685524007	MCM-AP1-EB-01	Water	09/10/24 16:07	09/12/24 14:30

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.

Prep Methods and Prep Dates

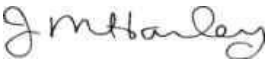
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	25-SEP-2024
EPA 903.1 Modified	25-SEP-2024
EPA 904.0/SW846 9320 Modified	25-SEP-2024

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. 4443.

Sincerely,



Joanne Harley for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685524 GEL Work Order: 685524

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

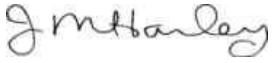
** Analyte is a surrogate compound

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, Alaina Pinnick.

Reviewed by 

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-04
Sample ID: 685524001
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.40	+/-0.971	1.47	+/-1.03	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.33	+/-1.29	1.47	+/-1.43		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.93	+/-0.849	0.586	+/-0.985	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	86.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-11
Sample ID: 685524002
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.08	+/-1.00	1.63	+/-1.04	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.49	+/-1.14	1.63	+/-1.21		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.41	+/-0.549	0.408	+/-0.610	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	90.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
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Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-12
Sample ID: 685524003
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.91	+/-0.930	1.21	+/-1.05	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.80	+/-1.28	1.21	+/-1.46		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.89	+/-0.878	0.472	+/-1.02	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	92.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-17
Sample ID: 685524004
Matrix: WG
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.60	+/-1.04	1.57	+/-1.12	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.29	+/-1.28	1.57	+/-1.45		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.69	+/-0.741	0.306	+/-0.919	1.00	pCi/L			MJ2	09/25/24	1015	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	90.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FD-01
Sample ID: 685524005
Matrix: WQ
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.03	+/-1.10	1.83	+/-1.13	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.16	+/-1.33	1.83	+/-1.42		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.14	+/-0.741	0.616	+/-0.850	1.00	pCi/L			MJ2	09/25/24	1034	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko

Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-FB-01
Sample ID: 685524006
Matrix: WQ
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.21	+/-1.31	2.18	+/-1.34	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.58	+/-1.34	2.18	+/-1.38		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.365	+/-0.298	0.367	+/-0.308	1.00	pCi/L			MJ2	09/25/24	1035	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 4, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-AP1-EB-01
Sample ID: 685524007
Matrix: WQ
Collect Date: 10-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.09	+/-1.08	1.77	+/-1.11	3.00	pCi/L			KP1	09/25/24	1402	2672838	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.84	+/-1.19	1.77	+/-1.22		pCi/L			NXL1	09/25/24	1603	2672840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.754	+/-0.503	0.570	+/-0.517	1.00	pCi/L			MJ2	09/25/24	1035	2672289	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672838	85	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 685524

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2672840

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

GEL Sample ID#	Client Sample Identification
685524001	MCM-MCM-04
685524002	MCM-MCM-11
685524003	MCM-MCM-12
685524004	MCM-MCM-17
685524005	MCM-AP1-FD-01
685524006	MCM-AP1-FB-01
685524007	MCM-AP1-EB-01

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: 2672838

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

GEL Sample ID#	Client Sample Identification
685524001	MCM-MCM-04
685524002	MCM-MCM-11
685524003	MCM-MCM-12
685524004	MCM-MCM-17
685524005	MCM-AP1-FD-01
685524006	MCM-AP1-FB-01
685524007	MCM-AP1-EB-01
1205856168	Method Blank (MB)
1205856169	685524001(MCM-MCM-04) Sample Duplicate (DUP)
1205856170	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: 2672289

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

GEL Sample ID#	Client Sample Identification
685524001	MCM-MCM-04
685524002	MCM-MCM-11
685524003	MCM-MCM-12
685524004	MCM-MCM-17
685524005	MCM-AP1-FD-01
685524006	MCM-AP1-FB-01
685524007	MCM-AP1-EB-01
1205854957	Method Blank (MB)
1205854958	684690001(NonSDG) Sample Duplicate (DUP)
1205854959	684690001(NonSDG) Matrix Spike (MS)
1205854960	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 1205854959 (Non SDG 684690001MS) was recounted due to low recovery. The recount is reported. Sample 1205854957 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Miscellaneous Information

Additional Comments
The matrix spike, 1205854959 (Non SDG 684690001MS), 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.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685524**

Report Date: October 4, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2672838										
QC1205856169 685524001 DUP										
Radium-228	U	1.40		3.44	pCi/L	84.4		(0% - 100%)	KP1	09/25/2414:02
	Uncert:	+/-0.971		+/-1.48						
	TPU:	+/-1.03		+/-1.72						
QC1205856170 LCS										
Radium-228	69.7			55.0	pCi/L		79	(75%-125%)	KP1	09/25/2414:02
	Uncert:			+/-3.80						
	TPU:			+/-14.5						
QC1205856168 MB										
Radium-228			U	1.47	pCi/L				KP1	09/25/2414:02
	Uncert:			+/-1.02						
	TPU:			+/-1.09						
Rad Ra-226										
Batch 2672289										
QC1205854958 684690001 DUP										
Radium-226	U	0.185	U	0.392	pCi/L	0		N/A	MJ2	09/25/2410:35
	Uncert:	+/-0.256		+/-0.389						
	TPU:	+/-0.258		+/-0.395						
QC1205854960 LCS										
Radium-226	26.6			24.8	pCi/L		93.3	(75%-125%)	MJ2	09/25/2410:35
	Uncert:			+/-2.46						
	TPU:			+/-5.21						
QC1205854957 MB										
Radium-226			U	0.262	pCi/L				MJ2	09/25/2411:56
	Uncert:			+/-0.262						
	TPU:			+/-0.268						
QC1205854959 684690001 MS										
Radium-226	136 U	0.185		102	pCi/L		75.5	(75%-125%)	MJ2	09/25/2411:56
	Uncert:	+/-0.256		+/-11.2						
	TPU:	+/-0.258		+/-24.8						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **685524**

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

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.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence 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.
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.

685522 685524

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: kmjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04	9/10/24	1336	G	N	WG			7	X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06			G	N	WG				X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11	9/10/24	1328	G	N	WG			7	X	X	X	X	X						
MCM-MCM-12	9/10/24	1326	G	N	WG			7	X	X	X	X	X						
MCM-MCM-14			G	N	WG				X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	Stacy Boone	9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: *GEL Project Manager: Erin Trent*

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17	9/10/24	1258	G	N	WG			7	X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01	9/10/24	—	FD	N	WQ			7	X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-01	9/10/24	1559	FB	N	WQ			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filtered Samples*~~

Page 1 of 1 SDG: 580524 Rev1

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						**Comments** Note: extra sample is required for sample specific QC
MCM-AP1-EB-01	9/10/24	1607	EB	N	WQ			7	X	X	X	X	X						
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X						

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430	1		9/12/24	9430
2				2			
3				3			

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~***Dissolved Fe, Mn are the only Field-Filtered Samples***~~

Page 8 of 8 ID: 668524 Rev1

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18°RCHERM 5 - 24°RCHERM 7 - 20° RCHERM 2 - 1° 4 - 2° 6 - 23° RCHERM

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: RCHERM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston
84

October 09, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685519

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The sample ID 'MCM-MCM-06' was removed from the chain of custody associated with GEL WO 685645 per client request. This data report provides a single result for the Radium 226/288 request on the CCR Groundwater Compliance September 2024 chain of custody. Data is reported under the CCR Groundwater Compliance project name per client direction. All other analyses were reported under WO 685517. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685519001	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30

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.

Prep Methods and Prep Dates

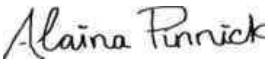
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	09-OCT-2024
EPA 903.1 Modified	07-OCT-2024
EPA 904.0/SW846 9320 Modified	25-SEP-2024

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. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685519 GEL Work Order: 685519

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 9, 2024

Contact: Kristen Jurinko
Project: Plant McManus CCR GW Compliance Sept 2024

Client Sample ID: MCM-MCM-06
Sample ID: 685519001
Matrix: WG
Collect Date: 12-SEP-24
Receive Date: 12-SEP-24
Collector: Client

Project: GPCC00624
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.25	+/-1.56	2.24	+/-1.76	3.00	pCi/L			KP1	09/25/24	1458	2672820	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.25	+/-1.72	2.24	+/-1.95		pCi/L		1	TON1	10/09/24	0810	2682748	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.00	+/-0.732	0.397	+/-0.847	1.00	pCi/L			MJ2	10/07/24	0955	2672300	3

The following Analytical Methods were performed

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

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2672820	85.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 685519

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2682748

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

GEL Sample ID#	Client Sample Identification
685519001	MCM-MCM-06

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: 2672820

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

GEL Sample ID#	Client Sample Identification
685519001	MCM-MCM-06
1205856157	Method Blank (MB)
1205856158	685519001(MCM-MCM-06) Sample Duplicate (DUP)
1205856159	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

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

Sample	Analyte	Value
1205856157 (MB)	Radium-228	Result: 2.48 pCi/L > MDA: 1.29 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: 2672300

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

GEL Sample ID#	Client Sample Identification
685519001	MCM-MCM-06
1205854990	Method Blank (MB)
1205854991	685023001(NonSDG) Sample Duplicate (DUP)
1205854992	685023001(NonSDG) Matrix Spike (MS)
1205854993	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, 1205854992 (Non SDG 685023001MS), 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.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685519**

Report Date: October 9, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2672820										
QC1205856158 685519001 DUP										
Radium-228		3.25		2.64	pCi/L	20.5		(0% - 100%)	KP1	09/25/2415:03
	Uncert:	+/-1.56		+/-1.18						
	TPU:	+/-1.76		+/-1.36						
QC1205856159 LCS										
Radium-228	69.6			81.7	pCi/L		117	(75%-125%)	KP1	09/25/2415:03
	Uncert:			+/-4.66						
	TPU:			+/-21.3						
QC1205856157 MB										
Radium-228				2.48	pCi/L				KP1	09/25/2415:03
	Uncert:			+/-1.01						
	TPU:			+/-1.19						
Rad Ra-226										
Batch 2672300										
QC1205854991 685023001 DUP										
Radium-226		1.69		2.81	pCi/L	50		(0% - 100%)	MJ2	10/07/2409:55
	Uncert:	+/-0.600		+/-0.922						
	TPU:	+/-0.687		+/-1.05						
QC1205854993 LCS										
Radium-226	27.2			22.7	pCi/L		83.7	(75%-125%)	MJ2	10/07/2410:13
	Uncert:			+/-2.22						
	TPU:			+/-5.18						
QC1205854990 MB										
Radium-226			U	0.251	pCi/L				MJ2	10/07/2409:55
	Uncert:			+/-0.278						
	TPU:			+/-0.284						
QC1205854992 685023001 MS										
Radium-226	130	1.69		148	pCi/L		112	(75%-125%)	MJ2	10/07/2409:55
	Uncert:	+/-0.600		+/-12.8						
	TPU:	+/-0.687		+/-30.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **685519**

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

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.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence 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.
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.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-INW-01~~	09-12-24	1210	G	Y*	WG			3	X	X	X	Comments: Note: extra sample is required for sample specific QC
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
~~MCM-PT-01~~	09-12-24	1157	G	Y*	WG			3	X	X	X	
~~MCM-PT-02~~	09-12-24	1431	G	Y*	WG			3	X	X	X	
~~MCM-PT-03~~	09-12-24	1350	G	Y*	WG			3	X	X	X	
~~MCM-DR-01~~	09-12-24	1324	G	Y*	WG			3	X	X	X	
~~MCM-DR-02~~	09-12-24	1508	G	Y*	WG			3	X	X	X	
~~MCM-DR-03~~	09-12-24	1047	G	Y*	WG			3	X	X	X	
~~MCM-AP1-FD-01~~	09-12-24	----	FD	Y*	WG			3	X	X	X	
~~MCM-AP1-FB-01~~	09-12-24	1310	FB	N	WQ			2	X		X	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number** = Client Determined

2.) **QC Codes: N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-AP1-EB-01~~	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number = Client Determined**

2.) **QC Codes: N = Normal Sample, TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

685517 685519
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHRM 5 - 24° RCHRM 7 - 20° RCHRM 2 - 1° 4 - 2° 6 - 23° RCHRM

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 RCHRM TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent | Adrian Pinnix

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI	<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X	
MCM-MCM-02			G	N	WG				X	X	X	X	X	
MCM-MCM-04			G	N	WG				X	X	X	X	X	
MCM-MCM-05			G	N	WG				X	X	X	X	X	
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X	
MCM-MCM-07			G	N	WG				X	X	X	X	X	
MCM-MCM-11			G	N	WG				X	X	X	X	X	
MCM-MCM-12			G	N	WG				X	X	X	X	X	
MCM-MCM-14			G	N	WG				X	X	X	X	X	
MCM-MCM-15			G	N	WG				X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 123765S7

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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CO = Corrosive
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TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ ***°C***

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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Page 13 of 20 SDG: 685519

Page: 3 of 3
Project # GPCC00105
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COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

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MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

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TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

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1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples**~~

Page 14 of 30 SDG 680519

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 2° 3 - 18° RCHERM 5 - 24° RCHERM 7 - 20° RCHERM 2 - 1° 4 - 2° 6 - 23° RCHERM

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 RCHERM TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

Alaina Pinnick

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 12:32 PM
To: Alaina Pinnick; Team Pinnick; Will James; Midkiff, Laura B.; Kristen Jurinko (knjurink@southernco.com); Hodges, John Benjamin; Farris, Kathryn
Cc: Trent Godwin; William Laaker; Natalie Piparo
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

That will be fine. Thanks for the clarification.

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Friday, October 4, 2024 12:31 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good morning,

I want to clarify, we did transfer the Radium 226/228 for MCM-06 to a unique WO separate from 688517 since we log these separately upon receipt.

This is currently being reported under WO 688519, I have attached the Login Review for WO 688519. Please let us know if this is acceptable or if you would prefer the data to be transferred to WO 688517 as well.

Thank you,
Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

From: Kevin Stephenson <kevin.stephenson@resoluteenv.com>
Sent: Friday, October 4, 2024 8:30 AM
To: Alaina Pinnick <Alaina.Pinnick@gel.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: RE: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Alaina,

Please find a few clarifications (provided by Laura Midkiff) to the list you provided yesterday. Please proceed with the analysis and I will reach out to the SCS/GPC team to confirm if a compiled revised COC should be provided. Thanks for your help.

Arsenic (total & dissolved)
Barium (total & dissolved)
Beryllium (total & dissolved)
Boron (total & dissolved)
Cadmium (total & dissolved)
Calcium (total)
Chromium (total & dissolved)
Cobalt (total & dissolved)
Iron (total & dissolved)
Lead (total & dissolved)
Lithium (total & dissolved)
Mercury (total & dissolved)
Molybdenum (total & dissolved)
Antimony (total & dissolved)
Selenium (total & dissolved)
Thallium (total & dissolved)
Chloride
Fluoride

Sulfate
TDS
Radium 226/228

Kevin Stephenson, P.G.
Project Geologist

Resolute
Environmental & Water Resources Consulting

1003 Weatherstone Parkway
Suite 320
Woodstock, GA 30188
(470) 895-0653

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Thursday, October 3, 2024 5:58 PM
To: Kevin Stephenson <kevin.stephenson@resoluteenv.com>; Team Pinnick <Team.Pinnick@gel.com>; Will James <Will.James@gel.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Kristen Jurinko (knjurink@southernco.com) <knjurink@southernco.com>; Hodges, John Benjamin <JOHHODGE@SOUTHERNCO.COM>; Farris, Kathryn <kathryn.farris@arcadis.com>
Cc: Trent Godwin <trent.godwin@resoluteenv.com>; William Laaker <william.laaker@resoluteenv.com>; Natalie Piparo <Natalie.piparo@resoluteenv.com>
Subject: Confirmation Needed: Parameter List Combination for Sample ID MCM-06(GEL WO 685517)

Good afternoon,

I wanted to summarize our discussion regarding sample ID MCM-06. Per your request, we will be combining the two parameter lists from the reporting lists referenced for the COC projects “Plant McManus CCR Groundwater Compliance Sept. 2024” and “Plant McManus 3-Week Sampling September 2024”, and reporting them together. This sample ID will be reported under the project ID ”Plant McManus CCR Groundwater Compliance Sept. 2024”.

The combined parameter list includes the following:

Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Iron
Lead
Lithium

Mercury
Molybdenum
Antimony
Selenium
Thallium

Please note that this request deviates from our standard practice, which typically involves referring only to the revised chain of custody. To ensure we proceed correctly, please provide confirmation to move forward with this parameter list.

Let us know if this is acceptable or if any additional adjustments are needed.

Thank you,
Alaina Pinnick
Project Manager
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
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Analytical Testing

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List of current GEL Certifications as of 09 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

Stage 2A Data Verification Report
Georgia Power
McManus Fossil Plant
Coal Combustion Residuals Project
Groundwater Samples

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the 16 groundwater samples collected as part of the September 2024 semi-annual monitoring at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by GEL Laboratories, LLC (GEL) in Charleston, South Carolina, for total and dissolved metals by SW-846 6020B; for total and dissolved mercury by SW-846 Method 7470A; for total dissolved solids (TDS) by Standard Method (SM) 2540C; and for anions (specifically, chloride, fluoride, and sulfate) by US EPA Method 300.0.

This review was performed with guidance from the US EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the US EPA Region IV Data Validation Standard Operating Procedures (SOPs; US EPA Region IV, September 2011); and the applied analytical methods. These validation guidance documents, with the exception of the analytical methods, specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the SM, SW-846, and US EPA methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the SM, SW-846, and US EPA methods utilized by the laboratory.

Summary

The analytical results and associated laboratory quality control (QC) samples were reviewed to determine the integrity of the reported analytical results and to verify that the data met the established data quality objectives.

The samples collected from 9/10/24 through 9/12/24 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review:
MCM-MCM-01, MCM-MCM-02, MCM-MCM-04, MCM-MCM-05, MCM-MCM-06, MCM-MCM-07, MCM-MCM-11, MCM-MCM-12, MCM-MCM-14, MCM-MCM-15, MCM-MCM-16, MCM-MCM-17, MCM-MCM-18, MCM-MCM-19, MCM-MCM-20, and MCM-DPZ-02.

The following GEL inorganic SDGs were evaluated as part of this QA review: 685517, 685518, and 685522.

All data are considered usable as reported, or usable after integration of data validation qualifications.

Inorganic Data Review

Data validation was performed for these samples based on the sample results, summary QC data, and raw data provided by the laboratory. The findings offered in this report for the inorganic analyses are based upon a review of the following QC measures:

- Sample condition upon laboratory receipt
- Chain-of-Custody (COC) Records
- Blank analysis results
- Laboratory control sample (LCS) recoveries
- Laboratory duplicate precision
- Sample holding times
- Case Narratives
- Field duplicate precision
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision

The above QC measures were evaluated against the analytical method requirements and QC acceptance criteria. The data were validated based on guidance from the US EPA Region IV Data Validation SOPs, the referenced procedures, and were qualified as appropriate as described in the sections below.

Comment and Exception

1. The following field duplicate pairs (see table) were submitted and analyzed for inorganic parameters with this data set. Acceptable precision and sample representativeness were demonstrated by the reported results in the field duplicate pair evaluation (the relative percent difference [RPD] between results was ≤ 20% when both results were ≥ 5× the reporting limit [RL], the difference between results was ≤ the RL when at least one result was < 5× the RL) with any exceptions noted below.

Laboratory SDG	Sample	Field Duplicate
685518	MCM-DPZ-02	MCM-AP1-FD-02
685522	MCM-MCM-12	MCM-AP1-FD-01

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

Laboratory SDG(s)	Sample(s)	Analyte(s)	Qualifier(s)	Reason for Qualification
685517	MCM-MCM-06	dissolved molybdenum	U*	BL – Method blank contamination
685518	MCM-MCM-01, MCM-MCM-07, MCM-MCM-14, MCM-MCM-15, and MCM-MCM-18	total arsenic	U*	BF– Field blank contamination
685518	MCM-MCM-07 and MCM-DPZ-02	total molybdenum	U*	BL – Method blank contamination
685522	MCM-MCM-11	total boron	U*	BF– Field blank contamination
685517	MCM-MCM-06	total selenium	UJ	M- – Low MS/MSD recoveries
685522	all samples	total selenium	UJ	M- – Low MS/MSD recoveries
685517	MCM-MCM-06	chloride	J	M+ – High MS recovery
685518	all samples	chloride	J	M+ – High MS recovery

- All inorganic positive results reported between the method detection limit (MDL) and RL have been flagged “J” (unless previously qualified “U*).

Report prepared by: Wendy Zhou, Quality Assurance Chemist
Report reviewed by: Alyssa M. Reed, Senior Quality Assurance Chemist
Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
Date: 10/31/2024

INORGANIC DATA QUALIFIERS

U - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit.

U* - This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

UJ - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

J - The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

R - The data are unusable. The sample results are rejected due to serious analytical deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

UR - The analyte was analyzed for, but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

Reason Codes and Explanations

Reason Code	Explanation
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
C	Initial and/or continuing calibration issue, indeterminate bias.
C+	Initial and/or continuing calibration issue. The result may be biased high.
C-	Initial and/or continuing calibration issue. The result may be biased low.
FD	Field duplicate imprecision.
FG	Total versus dissolved imprecision.
H	Holding time exceeded.
I	Internal standard recovery outside of acceptance limits.
L	LCS and LCSD recoveries outside of acceptance limits, indeterminate bias.
L+	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased high.
L-	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased low.
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits, indeterminate bias.
M+	MS and/or MSD recoveries outside of acceptance limits. The result may be biased high.
M-	MS and/or MSD recoveries outside of acceptance limits. The result may be biased low.
MP	MS/MSD imprecision.
P	Post-digestion spike recoveries outside of acceptance limits, indeterminate bias.
P+	Post-digestion spike recovery outside of acceptance limits. The result may be biased high.
P-	Post-digestion spike recovery outside of acceptance limits. The result may be biased low.
Q	Chemical preservation issue.
R	RL standards outside of acceptance limits, indeterminate bias.
R+	RL standard(s) outside of acceptance limits. The result may be biased high.
R-	RL standard(s) outside of acceptance limits. The result may be biased low.
T	Temperature preservation issue.
SD	Serial dilution imprecision.
Y	Chemical yields outside of acceptance limits, indeterminate bias.
Y+	Chemical yield(s) outside of acceptance limits. The result may be biased high.
Y-	Chemical yield(s) outside of acceptance limits. The result may be biased low.
ZZ	Other

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

Stage 2A Data Verification Report
Georgia Power
McManus Fossil Plant
Coal Combustion Residuals Project
Groundwater Samples

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the 16 groundwater samples collected as part of the September 2024 semi-annual monitoring at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by GEL Laboratories, LLC (GEL) in Charleston, South Carolina, for radium-226 by US EPA Method 903.1, for radium-228 by US EPA Method 904.0, and for combined radium-226+228 by calculation.

This review was performed with guidance from the US EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the US EPA Region IV Data Validation Standard Operating Procedures (SOPs; US EPA Region IV, September 2011); and the applied analytical methods. These validation guidance documents, with the exception of the analytical methods, specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA methods utilized by the laboratory.

Summary

The analytical results and associated laboratory quality control (QC) samples were reviewed to determine the integrity of the reported analytical results and to verify that the data met the established data quality objectives.

The samples collected from 9/10/24 through 9/12/24 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review:
MCM-MCM-01, MCM-MCM-02, MCM-MCM-04, MCM-MCM-05, MCM-MCM-06, MCM-MCM-07, MCM-MCM-11, MCM-MCM-12, MCM-MCM-14, MCM-MCM-15, MCM-MCM-16, MCM-MCM-17, MCM-MCM-18, MCM-MCM-19, MCM-MCM-20, and MCM-DPZ-02.

The following GEL radiological SDGs were evaluated as part of this QA review: 685519, 685521, and 685524.

All data are considered usable as reported, or usable after integration of data validation qualifications.

Radiological Data Review

Data validation was performed for these samples based on the sample results, summary QC data, and raw data provided by the laboratory. The findings offered in this report for the radiological analyses are based upon a review of the following QC measures:

- Sample condition upon laboratory receipt
- Chain-of-Custody (COC) Records
- Blank analysis results
- Laboratory control sample (LCS) recoveries
- Laboratory duplicate precision
- Sample holding times
- Case Narratives
- Matrix spike (MS) recoveries
- Field duplicate precision
- Chemical Yield

The above QC measures were evaluated against the analytical method requirements and QC acceptance criteria. The data were validated based on guidance from the US EPA Region IV Data Validation SOPs, the referenced procedures, and were qualified as appropriate as described in the sections below.

Comments and Exceptions

1. The data validator applied qualification to combined radium-226+228 based upon the QC samples associated with the analyses of the individual isotopes, radium-226 and radium-228. The database only includes the laboratory results for the combined radium-226+228; therefore, qualification of the individual isotopes is not addressed in this QA review.

2. Combined radium-226+228 was reported as the summation of the calculated activities for radium-226 and radium-228. As consistent with routine radiological reporting conventions, negative activities were reported for the radium-226 and radium-228 analyses; however, all negative activities were entered as zero in the calculation of combined radium-226+228 activity.

3. The combined radium-226+228 sample-specific minimum detectable concentration (MDC) was reported as the summation of the MDCs for radium-226 and radium-228. Consequently, there may be instances where a detection was observed in one of the individual isotopes but the combined radium-226+228 result was reported as “not-detected” due to the laboratory’s reporting convention for combined radium-226+228.

4. The combined radium-226+228 result uncertainty was reported using the routine statistical uncertainty reporting conventions as the root sum square (RSS; the square root of the sum of the squared individual uncertainties).

5. The following field duplicate pairs (see table) were submitted and analyzed for radiological parameters with this data set. Acceptable precision and sample representativeness were demonstrated by the reported results in the field duplicate pair evaluation (the replicate error ratio [RER] < 3), with any exceptions noted below.

Laboratory SDG	Sample	Field Duplicate
685521	MCM-DPZ-02	MCM-AP1-FD-02
685524	MCM-MCM-12	MCM-AP1-FD-01

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

Laboratory SDG(s)	Samples	Analyte	Qualifier	Reason for Qualification
685524	MCM-MCM-11	combined radium-226+228	U*	BE – equipment blank contamination
685519	MCM-MCM-06	combined radium-226+228	J	BL – Laboratory blank contamination
685521	MCM-MCM-05, MCM-MCM-07, and MCM-DPZ-02	combined radium-226+228	J	BL – Laboratory blank contamination
685524	MCM-MCM-04, MCM-MCM-11, MCM-MCM-12, and MCM-MCM-17	combined radium-226+228	J (unless previously flagged “U*”)	L- – Low LCS recovery

- All radiological results reported below the MDC have been flagged “U.”

Report prepared by: Wendy Zhou, Quality Assurance Chemist
Report reviewed by: Alyssa M. Reed, Senior Quality Assurance Chemist
Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
Date: 11/6/2024

INORGANIC DATA QUALIFIERS

U - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit.

U* - This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

UJ - The analyte was analyzed for, but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.

J - The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

R - The data are unusable. The sample results are rejected due to serious analytical deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

UR - The analyte was analyzed for, but was not detected above the level of the reported sample reporting or method detection; however, the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

Reason Codes and Explanations

Reason Code	Explanation
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
C	Initial and/or continuing calibration issue, indeterminate bias.
C+	Initial and/or continuing calibration issue. The result may be biased high.
C-	Initial and/or continuing calibration issue. The result may be biased low.
FD	Field duplicate imprecision.
FG	Total versus dissolved imprecision.
H	Holding time exceeded.
I	Internal standard recovery outside of acceptance limits.
L	LCS and LCSD recoveries outside of acceptance limits, indeterminate bias.
L+	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased high.
L-	LCS and/or LCSD recoveries outside of acceptance limits. The result may be biased low.
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits, indeterminate bias.
M+	MS and/or MSD recoveries outside of acceptance limits. The result may be biased high.
M-	MS and/or MSD recoveries outside of acceptance limits. The result may be biased low.
MP	MS/MSD imprecision.
P	Post-digestion spike recoveries outside of acceptance limits, indeterminate bias.
P+	Post-digestion spike recovery outside of acceptance limits. The result may be biased high.
P-	Post-digestion spike recovery outside of acceptance limits. The result may be biased low.
Q	Chemical preservation issue.
R	RL standards outside of acceptance limits, indeterminate bias.
R+	RL standard(s) outside of acceptance limits. The result may be biased high.
R-	RL standard(s) outside of acceptance limits. The result may be biased low.
T	Temperature preservation issue.
SD	Serial dilution imprecision.
Y	Chemical yields outside of acceptance limits, indeterminate bias.
Y+	Chemical yield(s) outside of acceptance limits. The result may be biased high.
Y-	Chemical yield(s) outside of acceptance limits. The result may be biased low.
ZZ	Other

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: Jay Siewert

Field Conditions: 84°/70°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7041-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0727	Time Finish	0742		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.38	22.83	± 10%	NA
Specific Conductance (µS/cm)	4,490	4479.2	22.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.19	± 0.1	GWMP
pH (SU)	7.00	7.02	23.57	± 0.1	GWMP
pH (SU)	10.00	10.00	23.49	± 0.1	GWMP
ORP (mV)	228.0	226.3	23.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.91		

Calibration Check					
Time Start	1529	Time Finish	1540		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4431.9	28.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	28.52	± 0.1	GWMP
pH (SU)	7.00	7.10	28.19	± 0.1	GWMP
pH (SU)	10.00	10.07	28.52	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	9.79		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: Jay Stuart

Field Conditions: 84°/76°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24006587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0818	Time Finish	0827		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	96.14	26.00	± 10%	NA
Specific Conductance (µS/cm)	4,490	4454.9	26.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	26.15	± 0.1	GWMP
pH (SU)	7.00	7.00	26.03	± 0.1	GWMP
pH (SU)	10.00	10.02	26.07	± 0.1	GWMP
ORP (mV)	228.0	223.6	25.85	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.81		

Calibration Check					
Time Start	1623	Time Finish	~~1627~~ 1630		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4314.9	26.50	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	26.48	± 0.1	GWMP
pH (SU)	7.00	7.06	26.51	± 0.1	GWMP
pH (SU)	10.00	10.10	26.93	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	10.04		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: KDMS

Field Conditions: 82°/72°, 20%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	9429 - 4417

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	1238	Time Finish	1254		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	98.59	26.05	± 10%	NA
Specific Conductance (µS/cm)	4,490	4472.9	26.67	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	26.80	± 0.1	GWMP
pH (SU)	7.00	7.05	26.56	± 0.1	GWMP
pH (SU)	10.00	10.04	26.43	± 0.1	GWMP
ORP (mV)	228.0	227.4	25.85	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.03	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	9.23		

Calibration Check					
Time Start	1554	Time Finish	1613		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4438.1	27.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	27.09	± 0.1	GWMP
pH (SU)	7.00	7.06	27.09	± 0.1	GWMP
pH (SU)	10.00	10.06	27.17	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.22		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: KMS

Field Conditions: 81°F 35°, 50% 90

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10802933
Turbidity Meter	LaMotte 2020	1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0924	Time Finish	0940		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.66	25.67	± 10%	NA
Specific Conductance (µS/cm)	4,490	4477.0	25.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.64	± 0.1	GWMP
pH (SU)	7.00	6.97	25.54	± 0.1	GWMP
pH (SU)	10.00	9.97	25.48	± 0.1	GWMP
ORP (mV)	228.0	227.7	25.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.27		

Calibration Check					
Time Start	1628	Time Finish	1638		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,463.9	25.84	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	25.83	± 0.1	GWMP
pH (SU)	7.00	7.10	25.85	± 0.1	GWMP
pH (SU)	10.00	10.12	25.87	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	9.47		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 9/10/24

Calibrated By: Natalie Piparo

Field Conditions: L 70° / H 83°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10480297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration

Time Start	7:23	Time Finish	7:35		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.84	22.97	± 10%	NA
Specific Conductance (µS/cm)	4,490	3924.9	22.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	23.05	± 0.1	GWMP
pH (SU)	7.00	7.02	23.08	± 0.1	GWMP
pH (SU)	10.00	10.04	23.14	± 0.1	GWMP
ORP (mV)	228.0	230.5	23.15	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.21		

Calibration Check

Time Start	15:54	Time Finish	15:58		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4453.6	26.95	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	26.93	± 0.1	GWMP
pH (SU)	7.00	7.14	27.00	± 0.1	GWMP
pH (SU)	10.00	~~10.03~~ 10.05	27.29	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.02		

Notes:

Site Name: Plant McKamey

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: Natalie Piparo

Field Conditions: H 82 L 75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	16860 297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010043	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004998	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:17	Time Finish	8:32		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	103.64	25.37	± 10%	NA
Specific Conductance (µS/cm)	4,490	4316.4	25.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	25.37	± 0.1	GWMP
pH (SU)	7.00	7.11	25.95	± 0.1	GWMP
pH (SU)	10.00	9.96	25.16	± 0.1	GWMP
ORP (mV)	228.0	224.9	24.99	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	10.08		

Calibration Check					
Time Start	16:26	Time Finish	16:37		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4660.5	25.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	25.71	± 0.1	GWMP
pH (SU)	7.00	7.09	25.82	± 0.1	GWMP
pH (SU)	10.00	10.11	26.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.07		
	10.00	9.95		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/12/24

Calibrated By: Natalie Piparo

Field Conditions: H 83 L 75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc

Calibration					
Time Start	8:19	Time Finish	8:34		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.61	25.04	± 10%	NA
Specific Conductance (µS/cm)	4,490	4701.9	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	25.04	± 0.1	GWMP
pH (SU)	7.00	6.92	24.93	± 0.1	GWMP
pH (SU)	10.00	9.99	24.85	± 0.1	GWMP
ORP (mV)	228.0	228.8	24.81	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	10.09		

Calibration Check					
Time Start	16:42	Time Finish	16:47		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4510.5	25.66	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.66	± 0.1	GWMP
pH (SU)	7.00	7.16	25.58	± 0.1	GWMP
pH (SU)	10.00	10.17	25.41	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.17		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: William Looker

Field Conditions: 84°/70° partly sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789301
Turbidity Meter	LaMotte 2020	2068 - 0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Ex iration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	11:02	Time Finish	11:10		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	103.23	25.70	± 10%	NA
Specific Conductance (µS/cm)	4,490	4446.7	25.47	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	25.65	± 0.1	GWMP
pH (SU)	7.00	7.02	25.24	± 0.1	GWMP
pH (SU)	10.00	~~9.9~~ 10.01	25.05	± 0.1	GWMP
ORP (mV)	228.0	222.7	25.10	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	9.46		

Calibration Check					
Time Start	15:53	Time Finish	15:59		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491.5	28.10	± 10% of standard	EPA 2023
pH (SU)	4.00	3.95	28.08	± 0.1	GWMP
pH (SU)	7.00	7.14	29.29	± 0.1	GWMP
pH (SU)	10.00	10.12	31.33	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.61		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/11/24

Calibrated By: William Laaker

Field Conditions: 84°/76° cloudy 70% rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789301
Turbidity Meter	LaMotte 2020	2068 - 0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:13	Time Finish	8:21		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.62	25.14	± 10%	NA
Specific Conductance (µS/cm)	4,490	4552.3	25.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.46	± 0.1	GWMP
pH (SU)	7.00	6.98	25.51	± 0.1	GWMP
pH (SU)	10.00	10.01	25.53	± 0.1	GWMP
ORP (mV)	228.0	225.5	25.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.37		

Calibration Check					
Time Start	16:02	Time Finish	16:07		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4475.0	25.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	25.32	± 0.1	GWMP
pH (SU)	7.00	7.14	25.35	± 0.1	GWMP
pH (SU)	10.00	10.17	25.42	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	9.70		

Notes:

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:36:05 PM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.44 ft** **Total Depth: 27.44 ft** **Initial Depth to Water: 8.49 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.44 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: -0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/10/2024 12:36 PM	00:00	6.11 pH	25.25 °C	9,734.6 µS/cm	0.03 mg/L	2.23 NTU	31.9 mV	8.51 ft	5.55 PSU	230.00 ml/min
9/10/2024 12:41 PM	05:00	6.11 pH	25.18 °C	9,909.1 µS/cm	0.03 mg/L	3.46 NTU	-58.1 mV	8.51 ft	5.66 PSU	230.00 ml/min
9/10/2024 12:46 PM	10:00	6.11 pH	25.17 °C	9,950.7 µS/cm	0.04 mg/L	3.85 NTU	57.6 mV	8.48 ft	5.68 PSU	230.00 ml/min
9/10/2024 12:51 PM	15:00	6.10 pH	25.28 °C	10,012 µS/cm	0.03 mg/L	2.75 NTU	59.4 mV	8.44 ft	5.72 PSU	230.00 ml/min
9/10/2024 12:56 PM	20:00	6.11 pH	25.33 °C	10,047 µS/cm	0.03 mg/L	2.73 NTU	59.7 mV	8.43 ft	5.74 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-17	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:53:21 PM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19 ft** **Total Depth: 29 ft** **Initial Depth to Water: 8.05 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/10/2024 12:53 PM	00:00	6.44 pH	25.23 °C	1,884.5 µS/cm	0.03 mg/L	2.81 NTU	-3.9 mV	9.82 ft	0.97 PSU	200.00 ml/min
9/10/2024 12:58 PM	05:00	6.44 pH	25.36 °C	1,890.4 µS/cm	0.01 mg/L	3.21 NTU	-28.6 mV	9.92 ft	0.97 PSU	200.00 ml/min
9/10/2024 1:03 PM	10:00	6.45 pH	25.30 °C	1,893.7 µS/cm	0.00 mg/L	3.30 NTU	-51.9 mV	10.04 ft	0.97 PSU	200.00 ml/min
9/10/2024 1:08 PM	15:00	6.45 pH	25.15 °C	1,897.4 µS/cm	-0.01 mg/L	3.20 NTU	-59.1 mV	10.12 ft	0.98 PSU	200.00 ml/min
9/10/2024 1:13 PM	20:00	6.44 pH	25.12 °C	1,901.9 µS/cm	-0.01 mg/L	2.76 NTU	-64.3 mV	10.18 ft	0.98 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-12	Metals, Inorganics, TDS, Radium
FD-01	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2024 12:58:14 PM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14 ft** **Total Depth: 24 ft** **Initial Depth to Water: 3.63 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/10/2024 12:58 PM	00:00	5.18 pH	30.17 °C	139.49 µS/cm	0.45 mg/L	4.62 NTU	33.2 mV	4.89 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:03 PM	05:00	5.18 pH	27.84 °C	144.08 µS/cm	0.19 mg/L	2.15 NTU	20.9 mV	4.99 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:08 PM	10:00	5.17 pH	27.51 °C	144.31 µS/cm	0.14 mg/L	2.10 NTU	22.3 mV	5.02 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:13 PM	15:00	5.18 pH	27.24 °C	145.59 µS/cm	0.15 mg/L	2.11 NTU	27.7 mV	5.04 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:18 PM	20:00	5.18 pH	27.42 °C	147.82 µS/cm	0.17 mg/L	2.48 NTU	34.9 mV	5.06 ft	0.07 PSU	200.00 ml/min
9/10/2024 1:23 PM	25:00	5.19 pH	26.99 °C	149.06 µS/cm	0.20 mg/L	2.30 NTU	43.3 mV	5.09 ft	0.07 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-11	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/10/2024 1:12:53 PM
Project: September 2024 McManus CCR Event
Operator Name: Kevin Stephenson

Location Name: MCM-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.57 ft** **Total Depth: 28.57 ft** **Initial Depth to Water: 7.9 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.57 ft** **Estimated Total Volume Pumped: 5600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 4 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/10/2024 1:12 PM	00:00	5.18 pH	22.86 °C	604.06 µS/cm	0.07 mg/L	1.27 NTU	153.8 mV	8.16 ft	0.30 PSU	280.00 ml/min
9/10/2024 1:17 PM	05:00	5.09 pH	22.56 °C	598.90 µS/cm	0.03 mg/L	0.92 NTU	149.1 mV	8.15 ft	0.29 PSU	280.00 ml/min
9/10/2024 1:22 PM	10:00	5.09 pH	22.49 °C	599.65 µS/cm	0.01 mg/L	1.34 NTU	170.4 mV	8.15 ft	0.29 PSU	280.00 ml/min
9/10/2024 1:27 PM	15:00	5.09 pH	22.57 °C	598.40 µS/cm	-0.00 mg/L	0.68 NTU	169.9 mV	8.13 ft	0.29 PSU	280.00 ml/min
9/10/2024 1:32 PM	20:00	5.10 pH	22.54 °C	596.85 µS/cm	-0.01 mg/L	1.11 NTU	168.7 mV	8.14 ft	0.29 PSU	280.00 ml/min

Samples

Sample ID:	Description:
MCM-04	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:28:33 AM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.86 ft** **Total Depth: 27.86 ft** **Initial Depth to Water: 4.93 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.86 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/11/2024 9:28 AM	00:00	4.04 pH	23.51 °C	3,179.7 µS/cm	0.25 mg/L	0.08 NTU	154.8 mV	5.17 ft	1.68 PSU	200.00 ml/min
9/11/2024 9:33 AM	05:00	4.04 pH	23.30 °C	3,137.8 µS/cm	0.18 mg/L	0.20 NTU	164.6 mV	5.19 ft	1.66 PSU	200.00 ml/min
9/11/2024 9:38 AM	10:00	4.04 pH	23.27 °C	3,101.4 µS/cm	0.13 mg/L	0.18 NTU	167.0 mV	5.20 ft	1.64 PSU	200.00 ml/min
9/11/2024 9:43 AM	15:00	4.04 pH	23.28 °C	3,123.0 µS/cm	0.10 mg/L	0.20 NTU	168.2 mV	5.21 ft	1.65 PSU	200.00 ml/min
9/11/2024 9:48 AM	20:00	4.04 pH	23.27 °C	3,087.8 µS/cm	0.09 mg/L	0.15 NTU	169.0 mV	5.22 ft	1.63 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-18	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:34:11 AM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.32 ft** **Total Depth: 27.32 ft** **Initial Depth to Water: 3.5 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.32 ft** **Estimated Total Volume Pumped: 7175 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 205 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/11/2024 9:34 AM	00:00	4.98 pH	24.47 °C	146.71 µS/cm	0.43 mg/L	14.30 NTU	139.5 mV	3.55 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:39 AM	05:00	4.97 pH	24.85 °C	147.28 µS/cm	0.19 mg/L	12.54 NTU	120.1 mV	3.56 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:44 AM	10:00	4.98 pH	24.73 °C	148.13 µS/cm	0.14 mg/L	9.00 NTU	117.8 mV	3.56 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:49 AM	15:00	4.98 pH	24.81 °C	149.49 µS/cm	0.11 mg/L	6.04 NTU	109.1 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:54 AM	20:00	5.00 pH	24.82 °C	147.10 µS/cm	0.10 mg/L	5.22 NTU	101.4 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 9:59 AM	25:00	4.99 pH	24.67 °C	148.19 µS/cm	0.10 mg/L	3.78 NTU	86.7 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 10:04 AM	30:00	5.00 pH	24.67 °C	149.04 µS/cm	0.09 mg/L	2.92 NTU	88.2 mV	3.57 ft	0.07 PSU	205.00 ml/min
9/11/2024 10:09 AM	35:00	5.01 pH	24.75 °C	150.09 µS/cm	0.09 mg/L	2.31 NTU	84.1 mV	3.57 ft	0.07 PSU	205.00 ml/min

Samples

Sample ID:	Description:
MCM-01	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:44:54 AM
Project: September 2024 McManus CCR Event
Operator Name: Kevin Stephenson

Location Name: DPZ-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 38.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 7.72 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 40.96 ft** **Estimated Total Volume Pumped: 8400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 5 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/11/2024 9:44 AM	00:00	7.39 pH	24.52 °C	14,080 µS/cm	0.06 mg/L	0.82 NTU	-314.8 mV	7.98 ft	8.27 PSU	240.00 ml/min
9/11/2024 9:49 AM	05:00	7.25 pH	24.40 °C	14,119 µS/cm	0.04 mg/L	0.14 NTU	-353.0 mV	7.98 ft	8.29 PSU	240.00 ml/min
9/11/2024 9:54 AM	10:00	7.21 pH	24.35 °C	14,118 µS/cm	0.04 mg/L	0.26 NTU	-352.3 mV	7.98 ft	8.29 PSU	240.00 ml/min
9/11/2024 9:59 AM	15:00	7.21 pH	24.25 °C	14,134 µS/cm	0.03 mg/L	0.04 NTU	-354.9 mV	7.98 ft	8.30 PSU	240.00 ml/min
9/11/2024 10:04 AM	20:00	7.20 pH	24.18 °C	14,412 µS/cm	0.03 mg/L	0.00 NTU	-354.6 mV	7.98 ft	8.48 PSU	240.00 ml/min
9/11/2024 10:09 AM	25:00	7.18 pH	24.20 °C	15,366 µS/cm	0.03 mg/L	0.11 NTU	-354.1 mV	7.97 ft	9.08 PSU	240.00 ml/min
9/11/2024 10:14 AM	30:00	7.18 pH	24.26 °C	15,531 µS/cm	0.02 mg/L	0.05 NTU	-354.2 mV	7.97 ft	9.19 PSU	240.00 ml/min
9/11/2024 10:19 AM	35:00	7.18 pH	24.22 °C	15,589 µS/cm	0.02 mg/L	0.01 NTU	-354.2 mV	7.97 ft	9.23 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DPZ-02	Metals, Inorganics, TDS, Radium
FD-02	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 9:46:10 AM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.75 ft** **Total Depth: 23.75 ft** **Initial Depth to Water: 7.36 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 18.75 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/11/2024 9:46 AM	00:00	6.50 pH	25.43 °C	7,980.9 µS/cm	0.27 mg/L	0.94 NTU	-100.9 mV	7.96 ft	4.48 PSU	200.00 ml/min
9/11/2024 9:51 AM	05:00	6.51 pH	25.35 °C	8,590.9 µS/cm	0.16 mg/L	0.58 NTU	-160.1 mV	7.99 ft	4.85 PSU	200.00 ml/min
9/11/2024 9:56 AM	10:00	6.52 pH	25.36 °C	8,717.2 µS/cm	0.12 mg/L	0.44 NTU	-187.3 mV	8.00 ft	4.93 PSU	200.00 ml/min
9/11/2024 10:01 AM	15:00	6.52 pH	25.32 °C	8,788.2 µS/cm	0.11 mg/L	0.28 NTU	-160.7 mV	8.02 ft	4.97 PSU	200.00 ml/min
9/11/2024 10:06 AM	20:00	6.53 pH	25.31 °C	8,838.0 µS/cm	0.10 mg/L	1.07 NTU	-164.4 mV	8.03 ft	5.00 PSU	200.00 ml/min
9/11/2024 10:11 AM	25:00	6.53 pH	25.28 °C	8,876.8 µS/cm	0.08 mg/L	1.03 NTU	-219.3 mV	8.02 ft	5.03 PSU	200.00 ml/min
9/11/2024 10:16 AM	30:00	6.53 pH	25.35 °C	8,921.8 µS/cm	0.08 mg/L	0.95 NTU	-224.7 mV	8.04 ft	5.05 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-07	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 10:42:34 AM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.32 ft** **Total Depth: 28.32 ft** **Initial Depth to Water: 6.34 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.32 ft** **Estimated Total Volume Pumped: 7350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/11/2024 10:42 AM	00:00	4.61 pH	23.54 °C	18,140 µS/cm	0.27 mg/L	6.71 NTU	162.2 mV	6.58 ft	10.88 PSU	210.00 ml/min
9/11/2024 10:47 AM	05:00	4.65 pH	23.43 °C	18,457 µS/cm	0.18 mg/L	3.65 NTU	166.6 mV	6.57 ft	11.08 PSU	210.00 ml/min
9/11/2024 10:52 AM	10:00	4.64 pH	23.44 °C	17,526 µS/cm	0.13 mg/L	2.72 NTU	166.5 mV	6.57 ft	10.48 PSU	210.00 ml/min
9/11/2024 10:57 AM	15:00	4.63 pH	23.35 °C	16,880 µS/cm	0.10 mg/L	1.53 NTU	166.6 mV	6.57 ft	10.06 PSU	210.00 ml/min
9/11/2024 11:02 AM	20:00	4.63 pH	23.36 °C	16,528 µS/cm	0.08 mg/L	0.63 NTU	166.5 mV	6.57 ft	9.83 PSU	210.00 ml/min
9/11/2024 11:07 AM	25:00	4.62 pH	23.39 °C	16,234 µS/cm	0.08 mg/L	0.94 NTU	166.8 mV	6.57 ft	9.64 PSU	210.00 ml/min
9/11/2024 11:12 AM	30:00	4.62 pH	23.36 °C	15,846 µS/cm	0.07 mg/L	0.41 NTU	166.9 mV	6.56 ft	9.39 PSU	210.00 ml/min
9/11/2024 11:17 AM	35:00	4.61 pH	23.34 °C	15,867 µS/cm	0.07 mg/L	0.35 NTU	166.9 mV	6.55 ft	9.40 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-19	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 11:27:30 AM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.39 ft** **Total Depth: 28.39 ft** **Initial Depth to Water: 7.73 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.39 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/11/2024 11:27 AM	00:00	5.57 pH	22.52 °C	122.27 µS/cm	0.12 mg/L	0.57 NTU	71.1 mV	7.85 ft	0.06 PSU	240.00 ml/min
9/11/2024 11:32 AM	05:00	5.54 pH	22.83 °C	117.40 µS/cm	0.08 mg/L	0.31 NTU	62.0 mV	7.86 ft	0.06 PSU	240.00 ml/min
9/11/2024 11:37 AM	10:00	5.49 pH	22.78 °C	116.12 µS/cm	0.08 mg/L	0.13 NTU	56.8 mV	7.87 ft	0.05 PSU	240.00 ml/min
9/11/2024 11:42 AM	15:00	5.46 pH	22.83 °C	114.76 µS/cm	0.07 mg/L	0.10 NTU	53.5 mV	7.87 ft	0.05 PSU	240.00 ml/min
9/11/2024 11:47 AM	20:00	5.43 pH	22.74 °C	114.17 µS/cm	0.07 mg/L	0.05 NTU	51.2 mV	7.87 ft	0.05 PSU	240.00 ml/min
9/11/2024 11:52 AM	25:00	5.41 pH	22.73 °C	114.09 µS/cm	0.07 mg/L	0.02 NTU	49.7 mV	7.87 ft	0.05 PSU	240.00 ml/min

Samples

Sample ID:	Description:
MCM-16	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 11:44:15 AM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.05 ft** **Total Depth: 28.05 ft** **Initial Depth to Water: 7.33 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.05 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/11/2024 11:44 AM	00:00	6.94 pH	25.88 °C	6,679.1 µS/cm	0.30 mg/L	0.50 NTU	-229.2 mV	7.26 ft	3.71 PSU	225.00 ml/min
9/11/2024 11:49 AM	05:00	6.95 pH	25.11 °C	6,642.1 µS/cm	0.22 mg/L	0.25 NTU	-235.3 mV	7.24 ft	3.68 PSU	225.00 ml/min
9/11/2024 11:54 AM	10:00	6.95 pH	24.91 °C	6,683.6 µS/cm	0.15 mg/L	0.13 NTU	-296.4 mV	7.25 ft	3.71 PSU	225.00 ml/min
9/11/2024 11:59 AM	15:00	6.95 pH	24.86 °C	6,667.2 µS/cm	0.07 mg/L	0.09 NTU	-304.0 mV	7.22 ft	3.70 PSU	225.00 ml/min
9/11/2024 12:04 PM	20:00	6.94 pH	24.82 °C	6,650.5 µS/cm	0.06 mg/L	0.10 NTU	-304.1 mV	7.18 ft	3.69 PSU	225.00 ml/min
9/11/2024 12:09 PM	25:00	6.94 pH	24.78 °C	6,658.9 µS/cm	0.06 mg/L	0.11 NTU	-243.2 mV	7.16 ft	3.69 PSU	225.00 ml/min

Samples

Sample ID:	Description:
MCM-05	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 2:30:06 PM
Project: September 2024 McManus CCR Event
Operator Name: Kevin Stephenson

Location Name: MCM-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.35 ft** **Total Depth: 27.35 ft** **Initial Depth to Water: 3.24 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.35 ft** **Estimated Total Volume Pumped: 10400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 9 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/11/2024 2:30 PM	00:00	5.83 pH	23.28 °C	150.80 µS/cm	0.19 mg/L	0.94 NTU	-27.7 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:35 PM	05:00	5.65 pH	22.45 °C	161.27 µS/cm	0.08 mg/L	1.08 NTU	-16.8 mV	3.48 ft	0.08 PSU	260.00 ml/min
9/11/2024 2:40 PM	10:00	5.59 pH	22.37 °C	156.04 µS/cm	0.05 mg/L	0.57 NTU	-30.5 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:45 PM	15:00	5.57 pH	22.36 °C	152.42 µS/cm	0.03 mg/L	0.35 NTU	-29.5 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:50 PM	20:00	5.52 pH	22.35 °C	147.29 µS/cm	0.03 mg/L	0.18 NTU	-23.1 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 2:55 PM	25:00	5.48 pH	22.40 °C	145.13 µS/cm	0.02 mg/L	0.24 NTU	1.5 mV	3.48 ft	0.07 PSU	260.00 ml/min
9/11/2024 3:00 PM	30:00	5.48 pH	22.44 °C	144.83 µS/cm	0.02 mg/L	0.15 NTU	2.0 mV	3.47 ft	0.07 PSU	260.00 ml/min
9/11/2024 3:05 PM	35:00	5.46 pH	22.45 °C	144.64 µS/cm	0.02 mg/L	0.28 NTU	3.6 mV	3.47 ft	0.07 PSU	260.00 ml/min
9/11/2024 3:10 PM	40:00	5.43 pH	22.45 °C	144.48 µS/cm	0.02 mg/L	0.20 NTU	4.1 mV	3.47 ft	0.07 PSU	260.00 ml/min

Samples

Sample ID:	Description:
MCM-02	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 2:51:18 PM
Project: September 2024 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.05 ft** **Total Depth: 23.05 ft** **Initial Depth to Water: 5.79 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 18.05 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.47 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/11/2024 2:51 PM	00:00	3.59 pH	24.10 °C	14,991 µS/cm	0.31 mg/L	0.20 NTU	197.1 mV	6.27 ft	8.84 PSU	200.00 ml/min
9/11/2024 2:56 PM	05:00	3.59 pH	23.97 °C	14,919 µS/cm	0.23 mg/L	0.30 NTU	193.7 mV	6.29 ft	8.80 PSU	200.00 ml/min
9/11/2024 3:01 PM	10:00	3.58 pH	23.96 °C	14,801 µS/cm	0.17 mg/L	0.19 NTU	192.7 mV	6.29 ft	8.72 PSU	200.00 ml/min
9/11/2024 3:06 PM	15:00	3.58 pH	23.95 °C	14,617 µS/cm	0.14 mg/L	0.30 NTU	191.3 mV	6.28 ft	8.61 PSU	200.00 ml/min
9/11/2024 3:11 PM	20:00	3.58 pH	23.95 °C	14,579 µS/cm	0.11 mg/L	0.05 NTU	190.4 mV	6.26 ft	8.58 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-20	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/11/2024 2:59:59 PM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.6 ft** **Total Depth: 26.6 ft** **Initial Depth to Water: 7.68 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 21.6 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/11/2024 2:59 PM	00:00	5.08 pH	24.96 °C	56.75 µS/cm	0.77 mg/L	1.47 NTU	17.0 mV	7.72 ft	0.03 PSU	200.00 ml/min
9/11/2024 3:04 PM	05:00	5.05 pH	24.86 °C	54.74 µS/cm	0.44 mg/L	0.97 NTU	21.1 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:09 PM	10:00	5.03 pH	24.77 °C	53.65 µS/cm	0.33 mg/L	1.35 NTU	18.6 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:14 PM	15:00	5.02 pH	24.72 °C	53.06 µS/cm	0.24 mg/L	1.27 NTU	22.4 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:19 PM	20:00	5.01 pH	24.66 °C	52.81 µS/cm	0.19 mg/L	1.32 NTU	23.1 mV	7.72 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:24 PM	25:00	5.00 pH	24.69 °C	52.65 µS/cm	0.18 mg/L	1.37 NTU	24.2 mV	7.73 ft	0.02 PSU	200.00 ml/min
9/11/2024 3:29 PM	30:00	4.99 pH	24.68 °C	52.66 µS/cm	0.16 mg/L	1.34 NTU	25.1 mV	7.73 ft	0.02 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-15	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2024 3:09:06 PM
Project: September 2024 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.11 ft** **Total Depth: 28.11 ft** **Initial Depth to Water: 7.79 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.11 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L
Water has strong sulfur odor.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/11/2024 3:09 PM	00:00	6.83 pH	24.84 °C	4,848.3 µS/cm	0.19 mg/L	0.10 NTU	-164.6 mV	7.80 ft	2.63 PSU	220.00 ml/min
9/11/2024 3:14 PM	05:00	6.67 pH	25.03 °C	4,818.3 µS/cm	0.12 mg/L	0.09 NTU	-224.2 mV	7.80 ft	2.62 PSU	220.00 ml/min
9/11/2024 3:19 PM	10:00	6.66 pH	25.12 °C	4,807.0 µS/cm	0.09 mg/L	0.06 NTU	-244.0 mV	7.80 ft	2.61 PSU	220.00 ml/min
9/11/2024 3:24 PM	15:00	6.66 pH	25.08 °C	4,811.0 µS/cm	0.08 mg/L	0.14 NTU	-258.9 mV	7.80 ft	2.61 PSU	220.00 ml/min
9/11/2024 3:29 PM	20:00	6.66 pH	25.12 °C	4,805.8 µS/cm	0.08 mg/L	0.10 NTU	-268.3 mV	7.80 ft	2.61 PSU	220.00 ml/min
9/11/2024 3:34 PM	25:00	6.66 pH	25.12 °C	4,804.6 µS/cm	0.08 mg/L	0.04 NTU	-274.1 mV	7.80 ft	2.61 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-14	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:42:25 AM
Project: September 2024 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.14 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 9:42 AM	00:00	7.03 pH	24.20 °C	10,234 µS/cm	0.05 mg/L	0.38 NTU	-225.3 mV	8.31 ft	5.86 PSU	230.00 ml/min
9/12/2024 9:47 AM	05:00	7.14 pH	23.99 °C	10,410 µS/cm	0.03 mg/L	0.39 NTU	-320.6 mV	8.33 ft	5.96 PSU	230.00 ml/min
9/12/2024 9:52 AM	10:00	7.16 pH	23.92 °C	10,349 µS/cm	0.02 mg/L	0.32 NTU	-324.8 mV	8.33 ft	5.93 PSU	230.00 ml/min
9/12/2024 9:57 AM	15:00	7.18 pH	23.90 °C	10,253 µS/cm	0.02 mg/L	0.37 NTU	-327.0 mV	8.34 ft	5.87 PSU	230.00 ml/min
9/12/2024 10:02 AM	20:00	7.19 pH	23.87 °C	10,158 µS/cm	0.01 mg/L	0.45 NTU	-252.6 mV	8.35 ft	5.81 PSU	230.00 ml/min
9/12/2024 10:07 AM	25:00	7.20 pH	23.85 °C	10,135 µS/cm	0.01 mg/L	0.27 NTU	-254.5 mV	8.35 ft	5.80 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

APPENDIX D

SURFACE WATER LABORATORY ANALYTICAL RESULTS AND FIELD SAMPLING REPORTS

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Surface Water Sampling Sept. 2024
Work Order: 686674

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
686674001	MCM-T2-1HT	Surface Water	09/18/24 10:02	09/19/24 12:50
686674002	MCM-T2-2HT	Surface Water	09/18/24 10:23	09/19/24 12:50
686674003	MCM-T2-2HTS	Surface Water	09/18/24 10:09	09/19/24 12:50
686674004	MCM-T2-3HT	Surface Water	09/18/24 10:48	09/19/24 12:50
686674005	MCM-T2-3HTS	Surface Water	09/18/24 10:36	09/19/24 12:50
686674006	MCM-T2-4HT	Surface Water	09/18/24 11:16	09/19/24 12:50
686674007	MCM-T2-4HTS	Surface Water	09/18/24 11:02	09/19/24 12:50
686674008	MCM-T2-4LT	Surface Water	09/18/24 16:18	09/19/24 12:50
686674009	MCM-BG-1LT	Surface Water	09/18/24 15:57	09/19/24 12:50
686674010	MCM-BG-2HT	Surface Water	09/18/24 09:37	09/19/24 12:50
686674011	MCM-CSURF-FD-01	Surface Water	09/18/24 12:00	09/19/24 12:50
686674012	MCM-CSURF-FB-01	Water	09/18/24 18:58	09/19/24 12:50
686674013	MCM-CSURF-EB-01	Water	09/18/24 19:00	09/19/24 12:50

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.

Prep Methods and Prep Dates

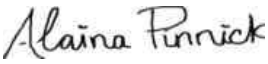
Method	Run Date ID
SW846 3005A	24-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-SEP-2024
EPA 300.0	25-SEP-2024
SM 2320B	23-SEP-2024
SM 2540C	25-SEP-2024
SW846 3005A/6020B	02-OCT-2024
SW846 3005A/6020B	03-OCT-2024

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. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 686674 GEL Work Order: 686674

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

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

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, Alaina Pinnick.

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00724
Sample ID:	686674001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9010	134	400	mg/L		2000	TXT1	09/24/24	0204	2676438	1
Sulfate		1400	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2139	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00421	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1923	2675189	3
Boron		2.14	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1256	2675189	4
Calcium		216	1.60	4.00	mg/L	1.00	20					
Magnesium		623	0.200	0.600	mg/L	1.00	20					
Potassium		198	1.60	6.00	mg/L	1.00	20					
Sodium		5350	40.0	125	mg/L	1.00	500	PRB	10/03/24	1214	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17100	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		94.4	0.725	2.00	mg/L			HH2	09/23/24	1710	2675519	7
Bicarbonate alkalinity (CaCO3)		94.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00724
Sample ID:	686674001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00724
Sample ID:	686674002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:23		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2210	2676438	1
Chloride		8990	134	400	mg/L		2000	TXT1	09/24/24	0235	2676438	2
Sulfate		1430	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00432	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1948	2675189	3
Boron		2.20	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1307	2675189	4
Calcium		218	1.60	4.00	mg/L	1.00	20					
Magnesium		635	0.200	0.600	mg/L	1.00	20					
Potassium		199	1.60	6.00	mg/L	1.00	20					
Sodium		5410	40.0	125	mg/L	1.00	500	PRB	10/03/24	1222	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17900	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		96.6	0.725	2.00	mg/L			HH2	09/23/24	1713	2675519	7
Bicarbonate alkalinity (CaCO3)		96.6	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00724
Sample ID:	686674002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00724
Sample ID:	686674003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:09		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8930	134	400	mg/L		2000	TXT1	09/24/24	0307	2676438	1
Sulfate		1390	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2241	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5450	40.0	125	mg/L	1.00	500	PRB	10/03/24	1224	2675189	3
Arsenic	J	0.00416	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1952	2675189	4
Boron		2.21	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1310	2675189	5
Calcium		222	1.60	4.00	mg/L	1.00	20					
Magnesium		642	0.200	0.600	mg/L	1.00	20					
Potassium		203	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17100	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		95.0	0.725	2.00	mg/L			HH2	09/23/24	1716	2675519	7
Bicarbonate alkalinity (CaCO3)		95.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00724
Sample ID:	686674003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00724
Sample ID:	686674004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:48		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9320	134	400	mg/L		2000	TXT1	09/24/24	0338	2676438	1
Sulfate		1450	266	800	mg/L		2000					
Fluoride	J	1.03	0.825	2.50	mg/L		25	TXT1	09/24/24	2313	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5700	40.0	125	mg/L	1.00	500	PRB	10/03/24	1226	2675189	3
Boron		2.37	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1312	2675189	4
Calcium		228	1.60	4.00	mg/L	1.00	20					
Magnesium		668	0.200	0.600	mg/L	1.00	20					
Potassium		211	1.60	6.00	mg/L	1.00	20					
Arsenic	J	0.00442	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1956	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18800	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		97.3	0.725	2.00	mg/L			HH2	09/23/24	1719	2675519	7
Bicarbonate alkalinity (CaCO3)		97.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00724
Sample ID:	686674004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID: MCM-T2-3HTS
Sample ID: 686674005
Matrix: WG
Collect Date: 18-SEP-24 10:36
Receive Date: 19-SEP-24
Collector: Client

Project: GPCC00724
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8760	134	400	mg/L		2000	TXT1	09/24/24	0409	2676438	1
Sulfate		1410	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/24/24	2344	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00432	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	1959	2675189	3
Boron		2.18	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1318	2675189	4
Calcium		215	1.60	4.00	mg/L	1.00	20					
Magnesium		626	0.200	0.600	mg/L	1.00	20					
Potassium		198	1.60	6.00	mg/L	1.00	20					
Sodium		5380	40.0	125	mg/L	1.00	500	PRB	10/03/24	1233	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		16900	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		94.3	0.725	2.00	mg/L			HH2	09/23/24	1721	2675519	7
Bicarbonate alkalinity (CaCO3)		94.3	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00724
Sample ID:	686674005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00724
Sample ID:	686674006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:16		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9310	134	400	mg/L		2000	TXT1	09/24/24	0543	2676438	1
Sulfate		1520	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0015	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5510	40.0	125	mg/L	1.00	500	PRB	10/03/24	1235	2675189	3
Arsenic	J	0.00429	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2003	2675189	4
Boron		2.29	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1320	2675189	5
Calcium		222	1.60	4.00	mg/L	1.00	20					
Magnesium		647	0.200	0.600	mg/L	1.00	20					
Potassium		206	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		19100	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		95.4	0.725	2.00	mg/L			HH2	09/23/24	1724	2675519	7
Bicarbonate alkalinity (CaCO3)		95.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00724
Sample ID:	686674006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00724
Sample ID:	686674007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0221	2676438	1
Chloride		9010	134	400	mg/L		2000	TXT1	09/24/24	0615	2676438	2
Sulfate		1460	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		5340	40.0	125	mg/L	1.00	500	PRB	10/03/24	1237	2675189	3
Arsenic	J	0.00434	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2006	2675189	4
Boron		2.22	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1322	2675189	5
Calcium		212	1.60	4.00	mg/L	1.00	20					
Magnesium		627	0.200	0.600	mg/L	1.00	20					
Potassium		196	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17900	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		93.9	0.725	2.00	mg/L			HH2	09/23/24	1727	2675519	7
Bicarbonate alkalinity (CaCO3)		93.9	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00724
Sample ID:	686674007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00724
Sample ID:	686674008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 16:18		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7130	134	400	mg/L		2000	TXT1	09/24/24	0646	2676438	1
Sulfate		1220	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0252	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Sodium		4450	40.0	125	mg/L	1.00	500	PRB	10/03/24	1239	2675189	3
Boron		1.88	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1324	2675189	4
Calcium		185	1.60	4.00	mg/L	1.00	20					
Magnesium		525	0.200	0.600	mg/L	1.00	20					
Potassium		165	1.60	6.00	mg/L	1.00	20					
Arsenic	J	0.00438	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2010	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		14000	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		88.7	0.725	2.00	mg/L			HH2	09/23/24	1731	2675519	7
Bicarbonate alkalinity (CaCO3)		88.7	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00724
Sample ID:	686674008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00724
Sample ID:	686674009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 15:57		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8710	134	400	mg/L		2000	TXT1	09/24/24	0718	2676438	1
Sulfate		1430	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0324	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron		2.19	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1327	2675189	3
Calcium		211	1.60	4.00	mg/L	1.00	20					
Magnesium		619	0.200	0.600	mg/L	1.00	20					
Potassium		195	1.60	6.00	mg/L	1.00	20					
Sodium		5200	40.0	125	mg/L	1.00	500	PRB	10/03/24	1241	2675189	4
Arsenic	J	0.00461	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2014	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17500	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		93.5	0.725	2.00	mg/L			HH2	09/23/24	1735	2675519	7
Bicarbonate alkalinity (CaCO3)		93.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00724
Sample ID:	686674009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00724
Sample ID:	686674010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 09:37		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10800	134	400	mg/L		2000	TXT1	09/24/24	0749	2676438	1
Sulfate		1670	266	800	mg/L		2000					
Fluoride	J	0.948	0.825	2.50	mg/L		25	TXT1	09/25/24	0355	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Arsenic	J	0.00501	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2028	2675189	3
Sodium		6480	40.0	125	mg/L	1.00	500	PRB	10/03/24	1243	2675189	4
Boron		2.56	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1329	2675189	5
Calcium		248	1.60	4.00	mg/L	1.00	20					
Magnesium		735	0.200	0.600	mg/L	1.00	20					
Potassium		232	1.60	6.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		20400	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		99.4	0.725	2.00	mg/L			HH2	09/23/24	1738	2675519	7
Bicarbonate alkalinity (CaCO3)		99.4	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00724
Sample ID:	686674010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00724
Sample ID:	686674011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 12:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8970	134	400	mg/L		2000	TXT1	09/24/24	0820	2676438	1
Sulfate		1460	266	800	mg/L		2000					
Fluoride	U	ND	0.825	2.50	mg/L		25	TXT1	09/25/24	0427	2676438	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron		2.16	0.104	0.300	mg/L	1.00	20	PRB	10/03/24	1331	2675189	3
Calcium		208	1.60	4.00	mg/L	1.00	20					
Magnesium		600	0.200	0.600	mg/L	1.00	20					
Potassium		190	1.60	6.00	mg/L	1.00	20					
Arsenic	J	0.00432	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2032	2675189	4
Sodium		5040	40.0	125	mg/L	1.00	500	PRB	10/03/24	1246	2675189	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18200	23.8	100	mg/L			KLP1	09/25/24	1128	2677630	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		95.0	0.725	2.00	mg/L			HH2	09/23/24	1740	2675519	7
Bicarbonate alkalinity (CaCO3)		95.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00724
Sample ID:	686674011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00724
Sample ID:	686674012	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 18:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	09/24/24	0923	2676438	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	10/03/24	1337	2675189	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2036	2675189	3
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	J	1.60	0.725	2.00	mg/L			HH2	09/23/24	1743	2675519	5
Bicarbonate alkalinity (CaCO3)	J	1.60	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00724
Sample ID:	686674012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00724
Sample ID:	686674013	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 19:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	09/24/24	0955	2676438	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B (Ca, Mg, K, Na, As, B) "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	10/03/24	1340	2675189	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/02/24	2040	2675189	3
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	8.00	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			HH2	09/23/24	1745	2675519	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675188

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Surface Water Sampling Sept. 2024

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00724
Sample ID:	686674013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/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: October 3, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2676438										
QC1205863556 685298008 DUP										
Chloride		27.7		27.8	mg/L	0.369		(0%-20%)	TXT1	09/24/24 14:19
Fluoride		0.207		0.221	mg/L	6.4	^	(+/-0.100)		09/23/24 18:44
Sulfate		21.5		21.5	mg/L	0.33		(0%-20%)		09/24/24 14:19
QC1205863555 LCS										
Chloride	5.00			4.67	mg/L		93.4	(90%-110%)		09/23/24 17:42
Fluoride	2.50			2.34	mg/L		93.6	(90%-110%)		
Sulfate	10.0			9.40	mg/L		94	(90%-110%)		
QC1205863554 MB										
Chloride			U	ND	mg/L					09/23/24 17:10
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205863557 685298008 PS										
Chloride	5.00	5.55		10.9	mg/L		108	(90%-110%)		09/24/24 14:51
Fluoride	2.50	0.207		2.57	mg/L		94.6	(90%-110%)		09/23/24 19:16
Sulfate	10.0	4.31		13.9	mg/L		95.7	(90%-110%)		09/24/24 14:51

QC Summary

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675189										
QC1205860709 LCS										
Arsenic	0.0500			0.0480	mg/L		96.1	(80%-120%)	PRB	10/02/24 19:19
Boron	0.100			0.104	mg/L		104	(80%-120%)		10/03/24 12:11
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Magnesium	2.00			1.99	mg/L		99.4	(80%-120%)		
Potassium	2.00			1.95	mg/L		97.7	(80%-120%)		
Sodium	2.00			2.00	mg/L		100	(80%-120%)		
QC1205860708 MB										
Arsenic			U	ND	mg/L					10/02/24 19:15
Boron			U	ND	mg/L					10/03/24 12:09
Calcium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Potassium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205860710 686674001 MS										
Arsenic	0.0500	J	0.00421	0.0438	mg/L		79.2	(75%-125%)		10/02/24 19:26
Boron	0.100		2.14	2.30	mg/L		N/A	(75%-125%)		10/03/24 13:01

QC Summary

Workorder: **686674**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675189											
Calcium	2.00		216		219	mg/L		N/A	(75%-125%)	PRB	10/03/24 13:01
Magnesium	2.00		623		633	mg/L		N/A	(75%-125%)		
Potassium	2.00		198		203	mg/L		N/A	(75%-125%)		
Sodium	2.00		5350		5360	mg/L		N/A	(75%-125%)		10/03/24 12:16
QC1205860711 686674001 MSD											
Arsenic	0.0500	J	0.00421		0.0447	mg/L	1.92	80.9	(0%-20%)		10/02/24 19:30
Boron	0.100		2.14		2.34	mg/L	1.74	N/A	(0%-20%)		10/03/24 13:03
Calcium	2.00		216		217	mg/L	1.03	N/A	(0%-20%)		
Magnesium	2.00		623		624	mg/L	1.44	N/A	(0%-20%)		
Potassium	2.00		198		199	mg/L	1.88	N/A	(0%-20%)		
Sodium	2.00		5350		5390	mg/L	0.555	N/A	(0%-20%)		10/03/24 12:18
QC1205860712 686674001 SDILT											
Arsenic		J	4.21	U	ND	ug/L	N/A		(0%-20%)		10/02/24 19:37
Boron			107		23.5	ug/L	9.94		(0%-20%)		10/03/24 13:05
Calcium			10800		2240	ug/L	3.68		(0%-20%)		
Magnesium			31200		6380	ug/L	2.33		(0%-20%)		

QC Summary

Workorder: **686674**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675189										
Potassium		9880		1990	ug/L	.641		(0%-20%)	PRB	10/03/24 13:05
Sodium		10700		2140	ug/L	.267		(0%-20%)		10/03/24 12:20
Solids Analysis										
Batch 2677630										
QC1205865957 686477001 DUP										
Total Dissolved Solids		933		928	mg/L	0.537		(0%-5%)	KLP1	09/25/24 11:28
QC1205865956 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		09/25/24 11:28
QC1205865955 MB										
Total Dissolved Solids			U	ND	mg/L					09/25/24 11:28
Titration and Ion Analysis										
Batch 2675519										
QC1205861419 LCS										
Alkalinity, Total as CaCO3	50.0			52.1	mg/L		104	(90%-110%)	HH2	09/23/24 17:00
QC1205861420 LCS										
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)		09/23/24 17:05
QC1205861421 LCSD										
Alkalinity, Total as CaCO3	50.0			52.4	mg/L	0.574	105	(0%-20%)		09/23/24 17:02
QC1205861422 LCSD										
Alkalinity, Total as CaCO3	15.0			14.6	mg/L	2.7	97.3	(0%-20%)		09/23/24 17:08

Notes:

The Qualifiers in this report are defined as follows:

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

J Value is estimated

QC Summary

Workorder: **686674**

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

X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
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
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
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.

Technical Case Narrative
Georgia Power Company
SDG #: 686674

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2675189

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2675188

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

GEL Sample ID#	Client Sample Identification
686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205860708	Method Blank (MB)**ICP-MS**
1205860709	Laboratory Control Sample (LCS)
1205860712	686674001(MCM-T2-1HTL) Serial Dilution (SD)
1205860710	686674001(MCM-T2-1HTS) Matrix Spike (MS)
1205860711	686674001(MCM-T2-1HTSD) Matrix Spike Duplicate (MSD)

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.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT) and 686674010 (MCM-BG-2HT) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	686674									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Boron	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Calcium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Magnesium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Potassium	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sodium	500X	500X	500X	500X	500X	500X	500X	500X	500X	500X

Analyte	686674
	011
Boron	20X
Calcium	20X
Magnesium	20X
Potassium	20X
Sodium	500X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2676438

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

GEL Sample ID#	Client Sample Identification
686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205863554	Method Blank (MB)
1205863555	Laboratory Control Sample (LCS)
1205863556	685298008(NonSDG) Sample Duplicate (DUP)
1205863557	685298008(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 1205863556 (Non SDG 685298008DUP) and 1205863557 (Non SDG 685298008PS) were diluted because target analyte concentrations exceeded the calibration range. Samples 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT), 686674010 (MCM-BG-2HT) and 686674011 (MCM-CSURF-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT), 686674010 (MCM-BG-2HT) and 686674011 (MCM-CSURF-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	686674									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Chloride	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X
Fluoride	25X	25X	25X	25X	25X	25X	25X	25X	25X	25X
Sulfate	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X

Analyte	686674
	011
Chloride	2000X
Fluoride	25X
Sulfate	2000X

Miscellaneous Information

Manual Integrations
Samples 1205863556 (Non SDG 685298008DUP) and 1205863557 (Non SDG 685298008PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2677630

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

GEL Sample ID# **Client Sample Identification**

686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205865955	Method Blank (MB)
1205865956	Laboratory Control Sample (LCS)
1205865957	686477001(NonSDG) Sample Duplicate (DUP)

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
A reduced aliquot was used due to historical information. 686674001 (MCM-T2-1HT), 686674002 (MCM-T2-2HT), 686674003 (MCM-T2-2HTS), 686674004 (MCM-T2-3HT), 686674005 (MCM-T2-3HTS), 686674006 (MCM-T2-4HT), 686674007 (MCM-T2-4HTS), 686674008 (MCM-T2-4LT), 686674009 (MCM-BG-1LT), 686674010 (MCM-BG-2HT) and 686674011 (MCM-CSURF-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2675519

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

GEL Sample ID#	Client Sample Identification
686674001	MCM-T2-1HT
686674002	MCM-T2-2HT
686674003	MCM-T2-2HTS
686674004	MCM-T2-3HT
686674005	MCM-T2-3HTS
686674006	MCM-T2-4HT
686674007	MCM-T2-4HTS
686674008	MCM-T2-4LT
686674009	MCM-BG-1LT
686674010	MCM-BG-2HT
686674011	MCM-CSURF-FD-01
686674012	MCM-CSURF-FB-01
686674013	MCM-CSURF-EB-01
1205861419	Laboratory Control Sample (LCS)

1205861420	Laboratory Control Sample (LCS)
1205861421	Laboratory Control Sample Duplicate (LCSD)
1205861422	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

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

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

686674

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL gel.com | Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus Surface Water Sampling Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	NI	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	<-- Preservative Type (6)	Comments
MCM-T2-1HT	09/18/24	1002	G	N	WS			4	X		X	X	X		Note: extra sample is required for sample specific QC
MCM-T2-2HT	09/18/24	1023	G	N	WS			4	X		X	X	X		
MCM-T2-2HTS	09/18/24	1009	G	N	WS			4	X		X	X	X		
MCM-T2-3HT	09/18/24	1048	G	N	WS			4	X		X	X	X		
MCM-T2-3HTS	09/18/24	1036	G	N	WS			4	X		X	X	X		
MCM-T2-4HT	09/18/24	1116	G	N	WS			4	X		X	X	X		
MCM-T2-4HTS	09/18/24	1102	G	N	WS			4	X		X	X	X		
MCM-T2-4LT	09/18/24	1618	G	N	WS			4	X		X	X	X		
MCM-BG-1LT	09/18/24	1557	G	N	WS			4	X		X	X	X		
MCM-BG-2HT	09/18/24	0937	G	N	WS			4	X		X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/19/24	1250		9/19/24	1250
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Project # GPCC00105
GEL Quote #: GELP22-0819
QC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus Surface Water Sampling Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	<-- Preservative Type (6)	Comments
MCM-CSURF-FD-01	09/18/24	—	FD	N	WS			4	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-CSURF-FB-01	09/18/24	1858	FB	N	WQ			4	X	X	X	X		
MCM-CSURF-FB-			FB	N	WQ				X	X	X	X		
MCM-CSURF-EB-01	09/18/24	1900	EB	N	WQ			4	X	X	X	X		
MCM-CSURF-EB-			EB	N	WQ				X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/19/24	1250		9/19/24	1250
2				2		
3				3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

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686674

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/17/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other) n/a

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?		✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP:_____
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Cooler:
1- 0°C
2- 0°C

PM (or PMA) review: Initials WF Date 9/20/24 Page 1 of 1

List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	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	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/18/24

Calibrated By: Jay Stewart / William Loaker

Field Conditions: 52°/69°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0808	Time Finish	0824		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.45	24.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4502.1	24.43	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.51	± 0.1	GWMP
pH (SU)	7.00	7.03	24.51	± 0.1	GWMP
pH (SU)	10.00	10.02	24.49	± 0.1	GWMP
ORP (mV)	228.0	220.6	24.40	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	9.28		

Calibration Check					
Time Start	~~0851~~ 1851	Time Finish	1901		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4584.1	27.22	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	27.35	± 0.1	GWMP
pH (SU)	7.00	7.01	26.89	± 0.1	GWMP
pH (SU)	10.00	10.10	26.58	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	10.05		

Notes:

Low-Flow Test Report:

Test Date / Time: 9/18/2024 9:33:05 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: BG-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 9:33 AM	00:00	7.12 pH	26.51 °C	32,868 µS/cm	5.31 mg/L	17.30 NTU	202.8 mV		20.88 PSU	250.00 ml/min
9/18/2024 9:34 AM	01:00	7.18 pH	26.68 °C	32,833 µS/cm	5.22 mg/L		199.7 mV		20.86 PSU	250.00 ml/min
9/18/2024 9:35 AM	02:00	7.22 pH	26.76 °C	32,702 µS/cm	5.14 mg/L	17.30 NTU	196.1 mV		20.76 PSU	250.00 ml/min

Samples

Sample ID:	Description:
BG-2HT	Metals, Inorganics, Alkalinity, TDS

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:00:05 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-1HT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 10:00 AM	00:00	7.34 pH	27.78 °C	27,908 µS/cm	4.56 mg/L	5.02 NTU	155.7 mV		17.44 PSU
9/18/2024 10:01 AM	01:00	7.32 pH	27.96 °C	27,980 µS/cm	4.49 mg/L		160.5 mV		17.49 PSU
9/18/2024 10:02 AM	02:00	7.31 pH	27.94 °C	28,062 µS/cm	4.47 mg/L	5.02 NTU	152.4 mV		17.55 PSU

Samples

Sample ID:	Description:
T2-1HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:09:23 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-2HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 10:09 AM	00:00	7.26 pH	27.55 °C	28,023 µS/cm	4.46 mg/L	5.95 NTU	141.6 mV		17.52 PSU
9/18/2024 10:10 AM	01:00	7.26 pH	27.83 °C	27,969 µS/cm	4.42 mg/L		145.9 mV		17.49 PSU
9/18/2024 10:11 AM	02:00	7.26 pH	27.83 °C	28,032 µS/cm	4.42 mg/L	5.95 NTU	136.9 mV		17.53 PSU

Samples

Sample ID:	Description:
T2-2HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:20:11 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 10:20 AM	00:00	7.28 pH	26.93 °C	28,119 µS/cm	4.53 mg/L	5.77 NTU	124.8 mV		17.58 PSU	250.00 ml/min
9/18/2024 10:21 AM	01:00	7.27 pH	27.00 °C	28,159 µS/cm	4.43 mg/L		119.4 mV		17.61 PSU	250.00 ml/min
9/18/2024 10:22 AM	02:00	7.26 pH	26.88 °C	28,182 µS/cm	4.45 mg/L	5.77 NTU	115.8 mV		17.63 PSU	250.00 ml/min

Samples

Sample ID:	Description:
T2-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:36:25 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-3HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 10:36 AM	00:00	7.35 pH	27.56 °C	27,534 µS/cm	4.91 mg/L	4.20 NTU	106.3 mV		17.19 PSU
9/18/2024 10:37 AM	01:00	7.32 pH	27.84 °C	27,465 µS/cm	4.75 mg/L		109.4 mV		17.14 PSU
9/18/2024 10:38 AM	02:00	7.31 pH	27.83 °C	27,524 µS/cm	4.66 mg/L	4.20 NTU	103.0 mV		17.18 PSU

Samples

Sample ID:	Description:
T2-3HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:45:54 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-3HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 10:45 AM	00:00	7.29 pH	26.94 °C	29,120 µS/cm	4.22 mg/L	6.90 NTU	99.2 mV		18.27 PSU	250.00 ml/min
9/18/2024 10:46 AM	01:00	7.28 pH	27.06 °C	29,081 µS/cm	4.30 mg/L		95.0 mV		18.25 PSU	250.00 ml/min
9/18/2024 10:47 AM	02:00	7.28 pH	26.96 °C	29,167 µS/cm	4.38 mg/L	6.90 NTU	92.8 mV		18.31 PSU	250.00 ml/min

Samples

Sample ID:	Description:
T2-3HT	Metals, Inorganics, Alkalinity, TDS

Low-Flow Test Report:

Test Date / Time: 9/18/2024 11:01:18 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-4HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 11:01 AM	00:00	7.34 pH	27.93 °C	28,243 µS/cm	4.60 mg/L	4.31 NTU	90.9 mV		17.67 PSU
9/18/2024 11:02 AM	01:00	7.31 pH	28.01 °C	28,323 µS/cm	4.45 mg/L		88.0 mV		17.73 PSU
9/18/2024 11:03 AM	02:00	7.30 pH	28.03 °C	28,314 µS/cm	4.38 mg/L	4.31 NTU	86.1 mV		17.72 PSU

Samples

Sample ID:	Description:
T2-4HTS	Metals, Inorganics, Alkalinity, TDS
FD-01	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 11:13:24 AM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-4HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 11:13 AM	00:00	7.32 pH	27.04 °C	29,017 µS/cm	4.57 mg/L	5.40 NTU	87.3 mV		18.20 PSU	250.00 ml/min
9/18/2024 11:14 AM	01:00	7.30 pH	27.06 °C	29,028 µS/cm	4.58 mg/L		84.1 mV		18.21 PSU	250.00 ml/min
9/18/2024 11:15 AM	02:00	7.29 pH	26.95 °C	29,122 µS/cm	4.63 mg/L	5.40 NTU	82.5 mV		18.27 PSU	250.00 ml/min

Samples

Sample ID:	Description:
T2-4HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 3:52:54 PM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: BG-1LT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/18/2024 3:52 PM	00:00	7.35 pH	29.56 °C	27,197 µS/cm	4.69 mg/L	12.50 NTU	63.9 mV		16.96 PSU	250.00 ml/min
9/18/2024 3:53 PM	01:00	7.32 pH	29.04 °C	27,392 µS/cm	4.75 mg/L		63.1 mV		17.09 PSU	250.00 ml/min
9/18/2024 3:54 PM	02:00	7.30 pH	28.81 °C	27,485 µS/cm	4.79 mg/L	12.50 NTU	62.2 mV		17.16 PSU	250.00 ml/min

Samples

Sample ID:	Description:
BG-1LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2024 4:23:40 PM
Project: September 2024 McManus Surface
Operator Name: William Laaker

Location Name: T2-4LT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850762

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %
9/18/2024 4:23 PM	00:00	7.25 pH	29.93 °C	23,676 µS/cm	4.44 mg/L	11.30 NTU	57.3 mV		14.57 PSU
9/18/2024 4:24 PM	01:00	7.24 pH	30.13 °C	23,602 µS/cm	4.41 mg/L		57.5 mV		14.52 PSU
9/18/2024 4:25 PM	02:00	7.23 pH	30.35 °C	23,595 µS/cm	4.38 mg/L	11.30 NTU	57.8 mV		14.51 PSU

Samples

Sample ID:	Description:
T2-4LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

APPENDIX E

STATISTICAL ANALYSES

GROUNDWATER STATS CONSULTING

February 28, 2025

Resolute Environmental & Water Resources Consulting
Attn: Mr. Stephen Wilson
1003 Weatherstone Parkway, Ste. 320
Woodstock, GA 30188

Re: Plant McManus Ash Pond (AP)
Statistical Analysis – September 2024 Sample Event

Dear Mr. Wilson,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the September 2024 sample event for Georgia Power Company's Plant McManus Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules (EPD) for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

The groundwater monitoring well network consists of the following:

- **Upgradient Wells:** MCM-01, MCM-02, MCM-11, MCM-15, MCM-16, MCM-18, MCM-19, and MCM-20
- **Downgradient Wells:** MCM-04, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17
- **Assessment Well:** DPZ-2

Sampling began in 2016 for the majority of wells. Upgradient wells MCM-18, MCM-19, and MCM-20, however, were installed late in 2019. Assessment well DPZ-2 is evaluated with confidence intervals for Appendix IV constituents which requires a minimum of four samples. A minimum of 8 samples has been collected at each upgradient and downgradient well and data from these wells are included in this analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data was then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis.

Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The statistical analysis provided in this report was performed according to the background screening conducted by MacStat Consulting in April 2019. Interwell prediction limits, combined with a 1-of-2 resample plan, for Appendix III parameters were recommended as the primary statistical method.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a replacement of the most recent reporting limit is used for non-detect data. However, the reporting limits for some constituents during recent events were at or above the MCL or CCR-Rule Specified Levels. In order maintain conservative limits, the following historic reporting limits were substituted:

- Chromium: 0.01 mg/L
- Cobalt: 0.0025 mg/L
- Fluoride: 0.1 mg/L
- Lead: 0.005 mg/L
- Lithium: 0.025 mg/L
- Molybdenum: 0.01 mg/L

Some constituents exist in higher concentrations in upgradient wells compared to those reported in one or more downgradient wells which is reflective of spatial variation in groundwater quality. In other cases, concentrations exist higher in downgradient wells relative to observations reported upgradient of the facility, as seen in the majority of the Appendix III parameters. This may be reflective of spatial variation or a result of practices at the facility. A separate study and hydrogeological investigation would be required to fully understand the geochemical conditions and expected groundwater quality for the region. That study and assessment is beyond the scope of services provided by Groundwater Stats Consulting.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs.

Based on the 2019 screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the 2019 screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each detected Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Statistical Analysis of Appendix III Parameters – September 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No additional outliers were flagged at this time. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Boron: MCM-12 and MCM-17
- pH: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Trends identified in upgradient wells are an indication of variability in groundwater quality unrelated to practices at the site. A summary of trend

test results follows this letter including a list of statistically significant trends. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Boron: MCM-18 (upgradient)
- pH: MCM-15, MCM-20 (both upgradient), MCM-14, and MCM-17

Statistical Analysis of Appendix IV Parameters – September 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Any downgradient and assessment well/constituent pairs containing 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional individual observations were flagged as outliers during this analysis. As a result of the previous background screening, the following non-detect values were flagged at that time due to elevated reporting limits: 0.025 mg/L for lead in upgradient well MCM-19; and 0.1 mg/L, 0.15 mg/L and 0.3 mg/L for lithium in upgradient well MCM-18. Additionally, elevated concentrations for fluoride in downgradient well MCM-06 and upgradient well MCM-20, and for cadmium in upgradient well MCM-19 were flagged as outliers. This step results in construction of statistical limits that are conservative from a regulatory perspective.

During previous analyses, elevated historic concentrations for combined radium 226 + 228 in upgradient well MCM-20 and for selenium at upgradient wells MCM-18, MCM-19, and MCM-20 were truncated from the record in order to maintain more conservative (i.e., lower) limits and construct statistical limits that are more representative of present-day groundwater quality conditions. Both a summary of all flagged outliers (Figure C) and a list of any truncated records follow this report.

<u>Interwell Upper Tolerance Limits</u>

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal

distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient and assessment well (Figure H).

The Sanitas software was used to calculate the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as

described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Note the concentrations for arsenic and lithium in downgradient well MCM-06 have statistically significantly decreased since November 2019 and recent concentrations appear to have stabilized. Therefore, confidence intervals for arsenic and lithium at MCM-06 were constructed using only more recent and stable data (USEPA Unified Guidance, 2009, Chapter 7). As a result of the small sample size, non-parametric confidence intervals were constructed for these well/constituent pairs and a list of any well/constituent pairs using a truncated portion of their record follows this report.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence intervals follow this letter and exceedances were identified for the following well/constituent pairs:

- Arsenic: MCM-06
- Lithium: DPZ-02

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site.

Note that closure measures have been implemented; therefore, the trend test was used to evaluate all available data beyond November 21, 2019 to the present. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Arsenic: MCM-11 (upgradient)

Decreasing:

- Arsenic: MCM-06

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Plant McManus Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew Collins
Project Manager

Kristina L. Rayner
Senior Statistician

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100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Antimony (mg/L)
DPZ-02, MCM-04, MCM-05, MCM-07, MCM-12, MCM-17

Beryllium (mg/L)
DPZ-02, MCM-06

Cadmium (mg/L)
DPZ-02, MCM-05, MCM-06, MCM-12, MCM-14, MCM-17

Chromium (mg/L)
DPZ-02

Cobalt (mg/L)
DPZ-02

Lead (mg/L)
DPZ-02, MCM-04

Mercury (mg/L)
DPZ-02, MCM-12

Molybdenum (mg/L)
MCM-14

Thallium (mg/L)
DPZ-02, MCM-04, MCM-05, MCM-07, MCM-12, MCM-14, MCM-17

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Date Ranges

Date: 11/25/2024 7:45 PM

Plant McManus Client: Southern Company Data: McManus AP

Arsenic (mg/L)
- MCM-06 overall:3/2/2023-9/12/2024

Combined Radium 226 + 228 (pCi/L)
- MCM-20 overall:10/13/2020-9/11/2024

Lithium (mg/L)
- MCM-06 overall:9/20/2022-9/12/2024

Selenium (mg/L)
- MCM-18 overall:3/26/2020-9/11/2024
- MCM-19 overall:3/26/2020-9/11/2024
- MCM-20 overall:3/26/2020-9/11/2024

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	9/10/2024	0.131	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	9/11/2024	0.463	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	9/12/2024	0.745	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	9/11/2024	0.888	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	9/11/2024	0.415	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	9/10/2024	9.06	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-05	202	n/a	9/11/2024	78.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-06	202	n/a	9/12/2024	134	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-07	202	n/a	9/11/2024	72.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	9/10/2024	4.67	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	9/11/2024	41.3	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	9/10/2024	57.2	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	9/10/2024	100	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	9/11/2024	1800	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	9/12/2024	3240	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	9/11/2024	2440	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	9/10/2024	297	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	9/11/2024	1320	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	9/10/2024	3080	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	9/10/2024	0.0749J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	9/11/2024	0.654	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	9/12/2024	0.392J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	9/11/2024	0.692	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	9/10/2024	1.67	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	9/11/2024	0.164J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	9/10/2024	0.986J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	9/10/2024	5.1	No	162	n/a	n/a	0	n/a	n/a	0.0001498	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	9/10/2024	103	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	9/11/2024	148	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	9/12/2024	271	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	9/11/2024	296	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	9/10/2024	0.462	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	9/11/2024	180	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	9/10/2024	323	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	9/10/2024	316	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	9/11/2024	3020	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	9/12/2024	5340	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	9/11/2024	4640	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	9/10/2024	1230	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	9/11/2024	2480	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	9/10/2024	5490	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.006044	66	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.007634	-55	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001347	38	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.01214	39	81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	-0.001212	-12	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-16 (bg)	-0.004519	-81	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.01929	-34	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.008783	-14	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01907	-39	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.07198	-70	-92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-02 (bg)	0.0169	69	92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-05	-0.01522	-35	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-06	0.00953	26	98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.03042	-76	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-11 (bg)	-0.05008	-85	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.009779	-27	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-16 (bg)	-0.002819	-7	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-18 (bg)	0.05171	55	68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02771	-37	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:39 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	139	n/a	n/a	99.28	n/a	n/a	0.0008009	NP Inter(NDs)
Arsenic (mg/L)	0.032	157	n/a	n/a	18.47	n/a	n/a	0.0003181	NP Inter(normality)
Barium (mg/L)	0.22	155	n/a	n/a	0	n/a	n/a	0.0003525	NP Inter(normality)
Beryllium (mg/L)	0.021	154	n/a	n/a	30.52	n/a	n/a	0.0003711	NP Inter(normality)
Cadmium (mg/L)	0.0043	137	n/a	n/a	97.08	n/a	n/a	0.0008874	NP Inter(NDs)
Chromium (mg/L)	0.011	139	n/a	n/a	59.71	n/a	n/a	0.0008009	NP Inter(NDs)
Cobalt (mg/L)	0.036	154	n/a	n/a	76.62	n/a	n/a	0.0003711	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	34.9	145	n/a	n/a	0	n/a	n/a	0.0005887	NP Inter(normality)
Fluoride (mg/L)	3.98	158	n/a	n/a	49.37	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.005	154	n/a	n/a	88.31	n/a	n/a	0.0003711	NP Inter(NDs)
Lithium (mg/L)	0.0493	151	n/a	n/a	59.6	n/a	n/a	0.0004328	NP Inter(NDs)
Mercury (mg/L)	0.0007	138	n/a	n/a	97.83	n/a	n/a	0.0008431	NP Inter(NDs)
Molybdenum (mg/L)	0.01	138	n/a	n/a	89.86	n/a	n/a	0.0008431	NP Inter(NDs)
Selenium (mg/L)	0.0492	131	n/a	n/a	74.81	n/a	n/a	0.001207	NP Inter(NDs)
Thallium (mg/L)	0.002	138	n/a	n/a	97.1	n/a	n/a	0.0008431	NP Inter(NDs)

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.049	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	19	0.002778	0.0006482	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	18	0.002856	0.0006128	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.02342	0.01249	0.032	No	11	0.01795	0.006561	9.091	None	No	0.01	Param.
Arsenic (mg/L)	MCM-04	0.005821	0.002756	0.032	No	20	0.004564	0.003157	10	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01207	0.005141	0.032	No	36	0.01111	0.01052	8.333	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01738	0.01125	0.032	No	35	0.01432	0.007428	0	None	No	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.0011	0.032	No	20	0.003712	0.001849	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.005	0.00215	0.032	No	21	0.003947	0.001793	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.00226	0.032	No	21	0.00388	0.001607	47.62	None	No	0.01	NP (normality)
Barium (mg/L)	DPZ-02	0.08305	0.04973	2	No	9	0.06639	0.01726	0	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.07053	0.0342	2	No	20	0.06315	0.06426	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03611	0.01224	2	No	21	0.04324	0.09482	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1217	0.05949	2	No	21	0.0906	0.05639	0	None	No	0.01	Param.
Barium (mg/L)	MCM-07	0.1724	0.08945	2	No	20	0.1405	0.09107	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1177	0.08769	2	No	20	0.1027	0.02647	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1103	0.05008	2	No	20	0.08021	0.05305	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.121	0.06841	2	No	20	0.09472	0.04633	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003689	0.0002002	0.021	No	20	0.0003795	0.0001605	40	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	21	0.0004788	0.00009733	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	20	0.0004386	0.0001502	85	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001299	0.0006575	0.021	No	20	0.001031	0.0006206	10	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	20	0.0004024	0.0001753	75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0005	0.00024	0.021	No	20	0.0003529	0.0001343	40	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	18	0.0009683	0.0001344	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	18	0.0009556	0.0001886	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0012	0.1	No	18	0.006131	0.004458	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	18	0.006502	0.004519	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0011	0.1	No	19	0.007639	0.004061	73.68	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0022	0.1	No	18	0.006161	0.003955	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-12	0.00659	0.005357	0.1	No	18	0.007132	0.002036	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	MCM-14	0.01	0.0016	0.1	No	18	0.006265	0.004316	55.56	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01082	0.006253	0.1	No	18	0.009454	0.003531	22.22	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-04	0.006	0.0025	0.036	No	21	0.004193	0.002189	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-05	0.0025	0.0019	0.036	No	21	0.002365	0.0004997	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.0025	0.0009	0.036	No	21	0.002319	0.0005793	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0025	0.0011	0.036	No	20	0.00232	0.0005672	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.0025	0.0005	0.036	No	20	0.001502	0.001025	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.0025	0.0006	0.036	No	20	0.002405	0.0004249	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.0025	0.0007	0.036	No	20	0.002192	0.0007547	85	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.879	6.152	34.9	No	9	8.016	1.93	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-04	5.087	2.936	34.9	No	20	4.155	2.126	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.183	1.644	34.9	No	21	2.756	1.976	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	6.546	3.098	34.9	No	20	4.822	3.037	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.866	5.865	34.9	No	21	7.366	2.72	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.222	2.273	34.9	No	20	2.748	0.8361	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.903	3.654	34.9	No	21	5.278	2.945	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.706	3.716	34.9	No	21	5.211	2.71	0	None	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.11	0.1	4	No	9	0.1011	0.003333	88.89	None	No	0.002	NP (NDs)
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	21	0.1265	0.1096	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MCM-05	0.5215	0.2831	4	No	23	0.4023	0.2279	13.04	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3087	0.1066	4	No	21	0.2702	0.2439	38.1	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.54	0.1	4	No	22	0.3579	0.3214	36.36	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.323	1.052	4	No	21	1.154	0.3181	4.762	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.294	0.1	4	No	23	0.2074	0.1736	52.17	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MCM-17	0.8109	0.324	4	No	22	0.646	0.4902	27.27	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MCM-05	0.005	0.0002	0.015	No	21	0.004771	0.001047	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.005	0.00012	0.015	No	21	0.004768	0.001065	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.005	0.0002	0.015	No	20	0.004269	0.001785	85	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.005	0.00083	0.015	No	20	0.003815	0.002111	75	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.005	0.00008	0.015	No	20	0.004754	0.0011	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.005	0.00034	0.015	No	20	0.004284	0.001749	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	MCM-04	0.025	0.0019	0.049	No	20	0.01578	0.0116	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0367	0.0219	0.049	No	21	0.05404	0.1185	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06066	0.03334	0.049	No	5	0.047	0.008153	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.04205	0.02032	0.049	No	22	0.03751	0.0321	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.0123	0.0104	0.049	No	20	0.01305	0.005279	15	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-14	0.0415	0.02322	0.049	No	22	0.03236	0.01703	9.091	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.0259	0.01691	0.049	No	20	0.02141	0.00791	5	None	No	0.01	Param.
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	18	0.0002283	0.0001202	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	18	0.0001912	0.00003724	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	19	0.0001979	0.000009177	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	18	0.0002261	0.0001108	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	18	0.0002256	0.0001084	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	18	0.0002244	0.0001037	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.01	0.000217	0.1	No	7	0.007209	0.004767	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.01	0.00015	0.1	No	18	0.009453	0.002322	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.01	0.00095	0.1	No	18	0.006988	0.004372	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.01	0.0013	0.1	No	19	0.00598	0.004372	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-07	0.01	0.000963	0.1	No	18	0.007509	0.004134	72.22	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.01	0.00055	0.1	No	18	0.007867	0.004106	77.78	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.01	0.00102	0.1	No	18	0.008419	0.00364	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00176	0.05	No	9	0.01987	0.01018	77.78	None	No	0.002	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	20	0.0044	0.001525	85	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.005	0.0028	0.05	No	21	0.004481	0.001106	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.0054	0.0024	0.05	No	21	0.004476	0.001613	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.005	0.0025	0.05	No	20	0.004209	0.001232	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	20	0.003738	0.001602	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.005	0.003	0.05	No	20	0.004315	0.001341	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.0067	0.0025	0.05	No	20	0.004397	0.0018	60	None	No	0.01	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	19	0.001899	0.0004414	94.74	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0003784	-13	-23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	5	23	No	10	80	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-15 (bg)	0.0005749	11	23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	4	23	No	10	70	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0002044	-34	-45	No	16	12.5	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001483	9	45	No	16	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0005441	-14	-45	No	16	0	n/a	0.05	NP
Lithium (mg/L)	DPZ-02	-0.003635	-27	-27	No	11	9.091	n/a	0.05	NP
Lithium (mg/L)	MCM-01 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	23	No	10	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	0	23	No	10	70	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	13	37	No	14	57.14	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0.0003351	19	45	No	16	6.25	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0.0002343	18	45	No	16	0	n/a	0.05	NP

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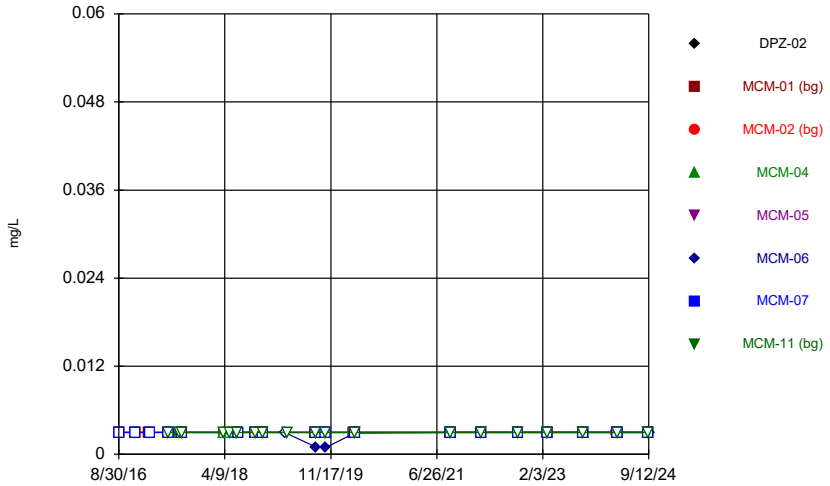
Figure I. Appendix IV Trend Tests	217

FIGURE A.

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

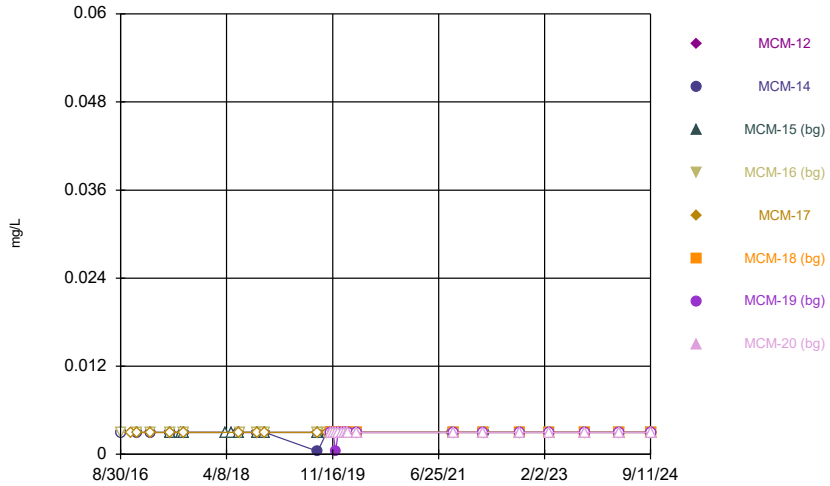
Time Series



Constituent: Antimony Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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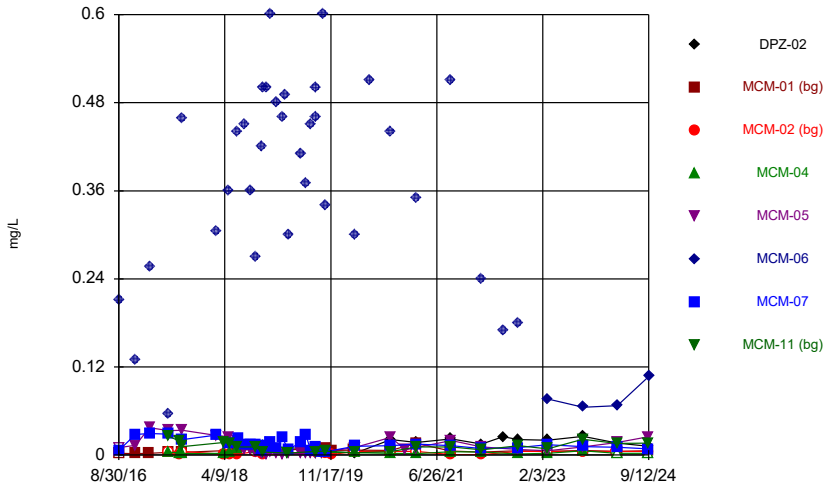
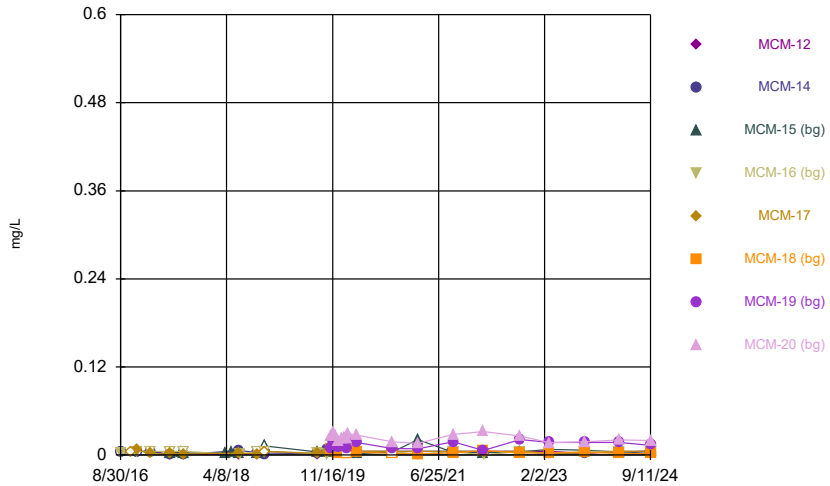
Time Series



Constituent: Arsenic Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

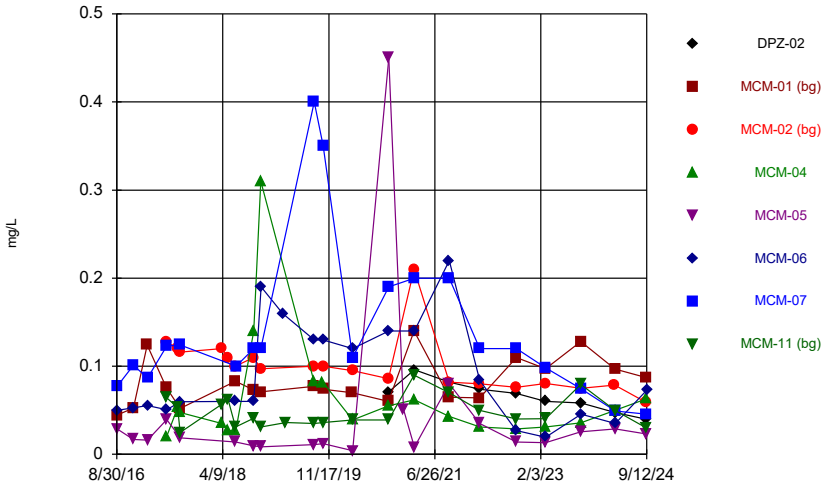
Time Series



Constituent: Arsenic Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

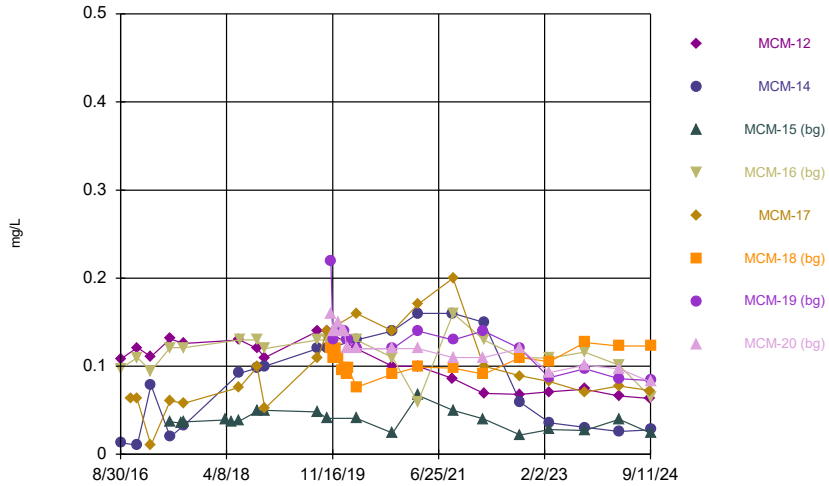


Constituent: Barium Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

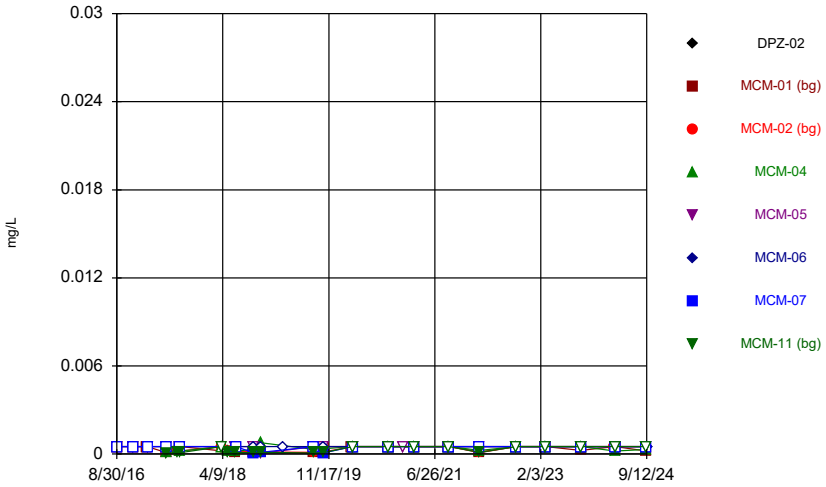


Constituent: Barium Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

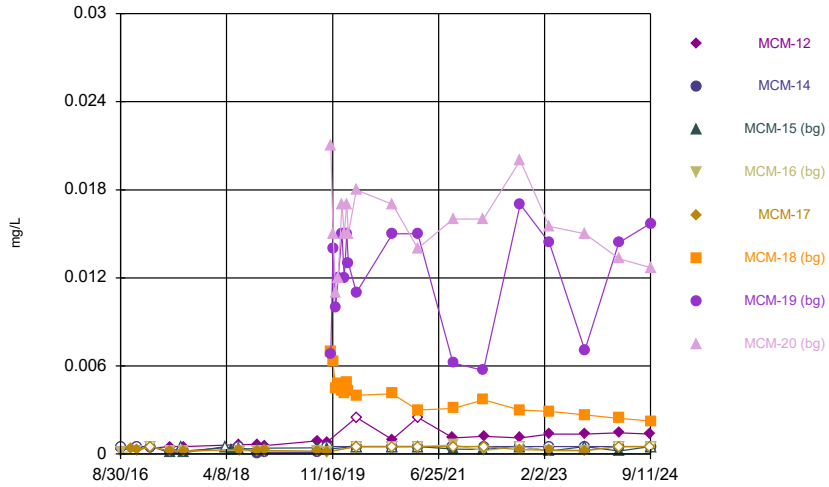


Constituent: Beryllium Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

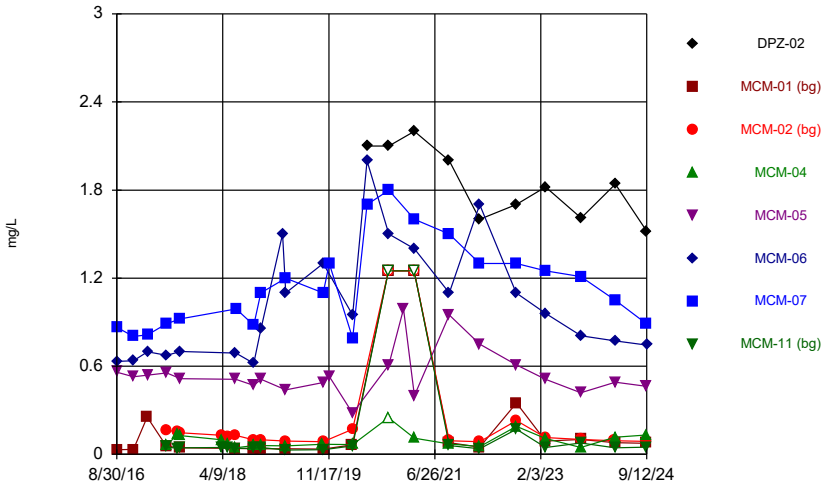


Constituent: Beryllium Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

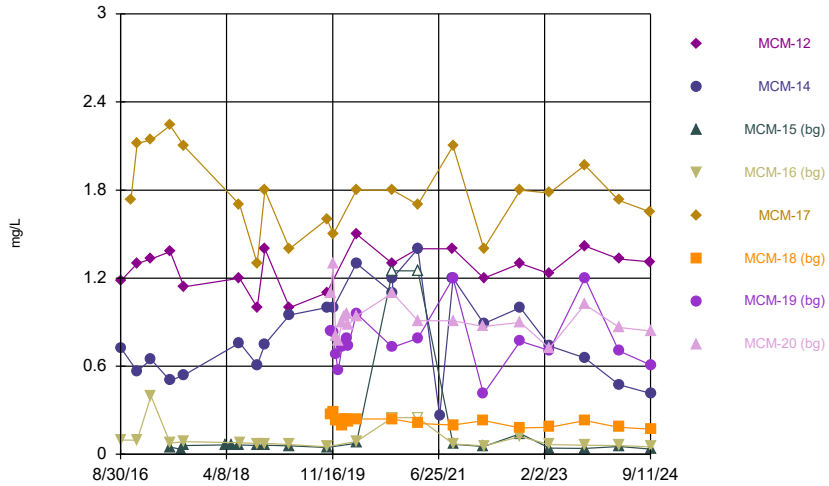
Time Series



Constituent: Boron Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

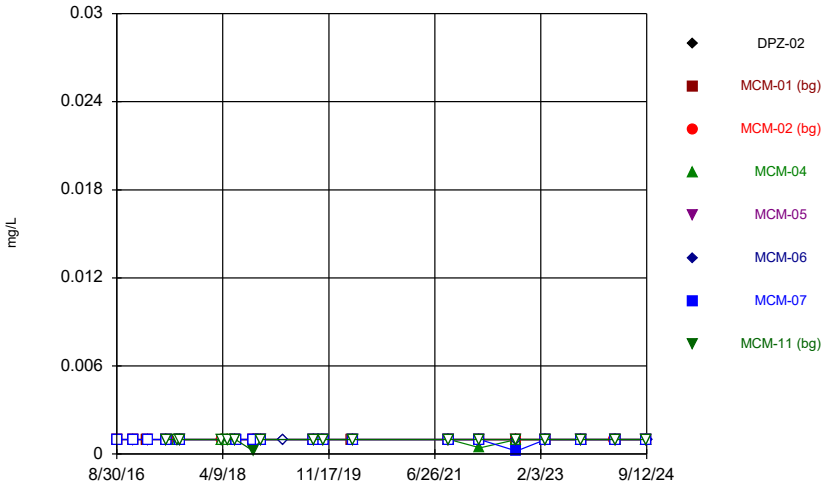
Time Series



Constituent: Boron Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

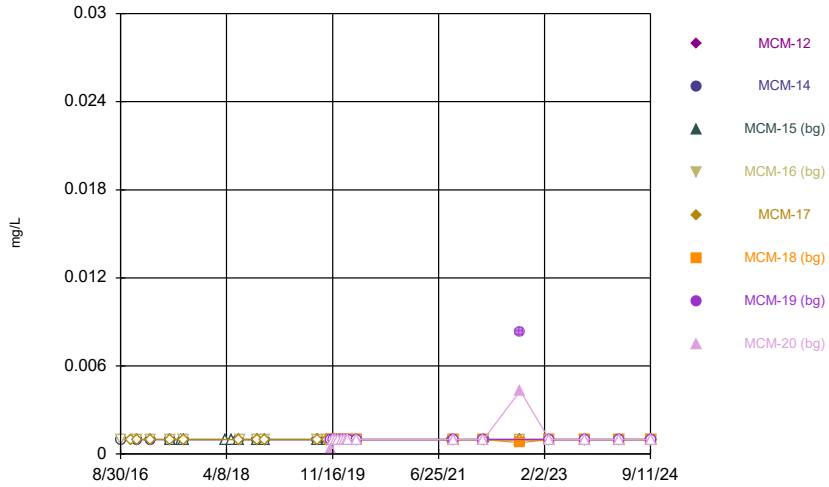
Time Series



Constituent: Cadmium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

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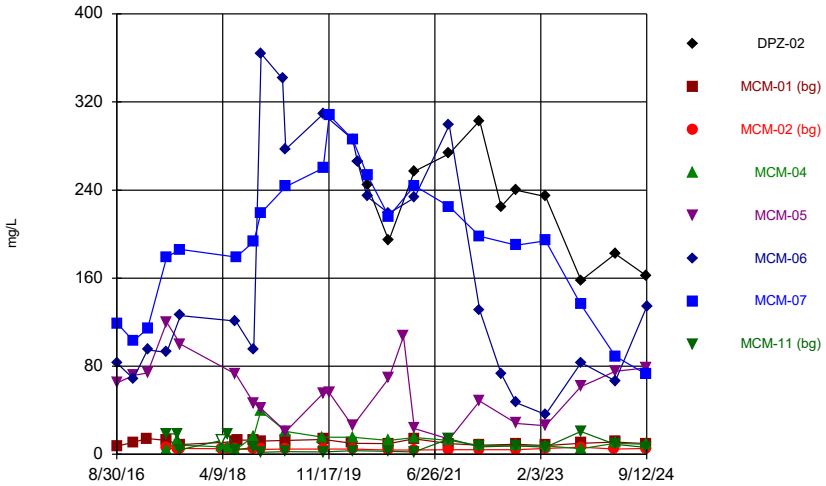
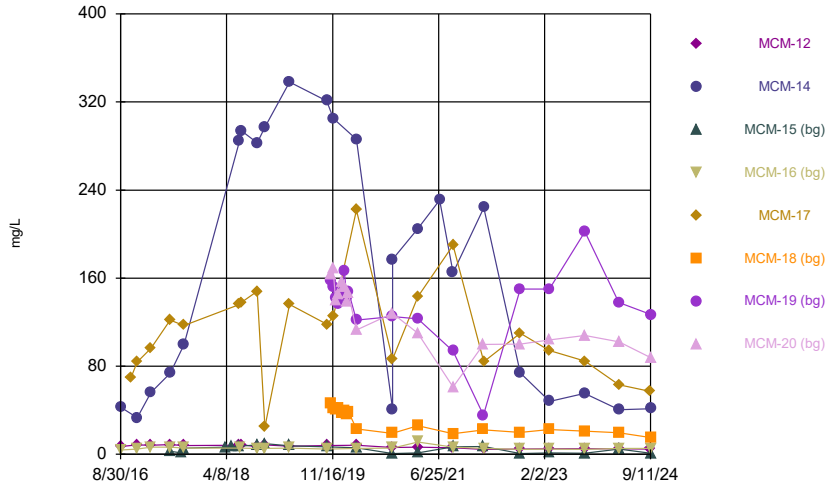


Constituent: Calcium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Calcium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

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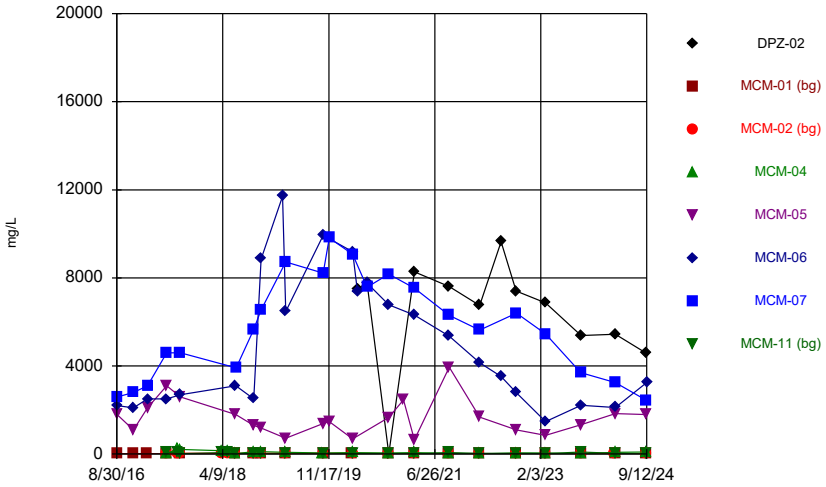
Hollow symbols indicate censored values.

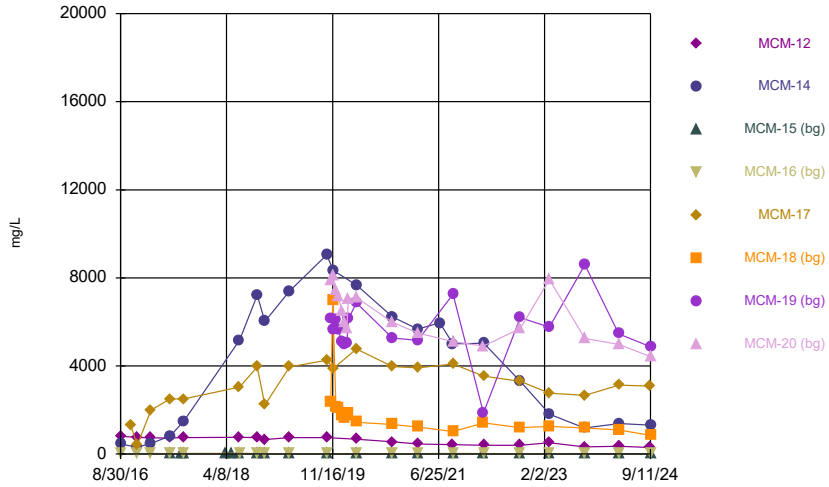
Time Series



Constituent: Chloride Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

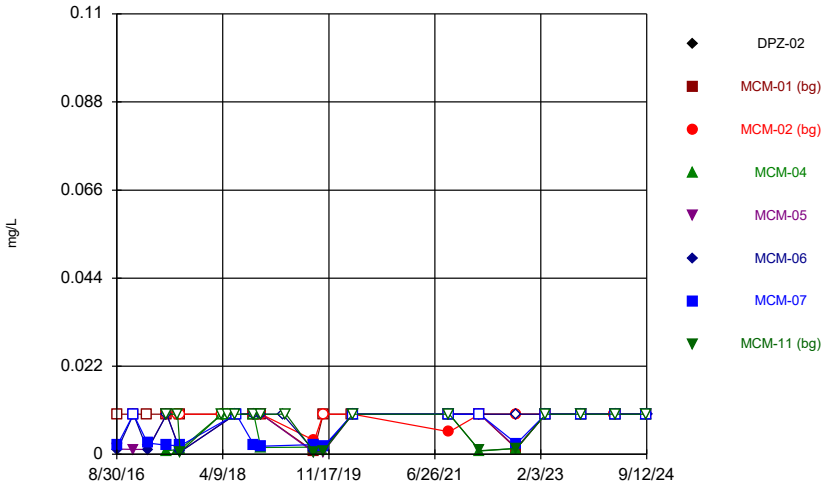
Time Series



Constituent: Chloride Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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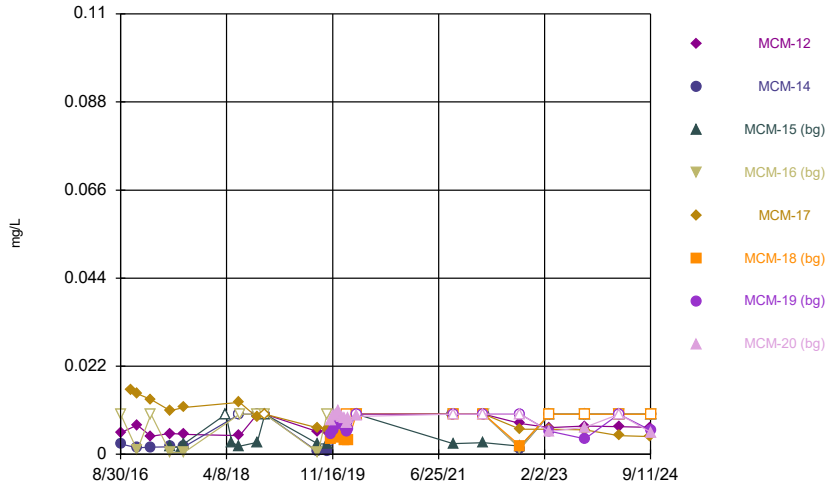

Constituent: Chromium Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

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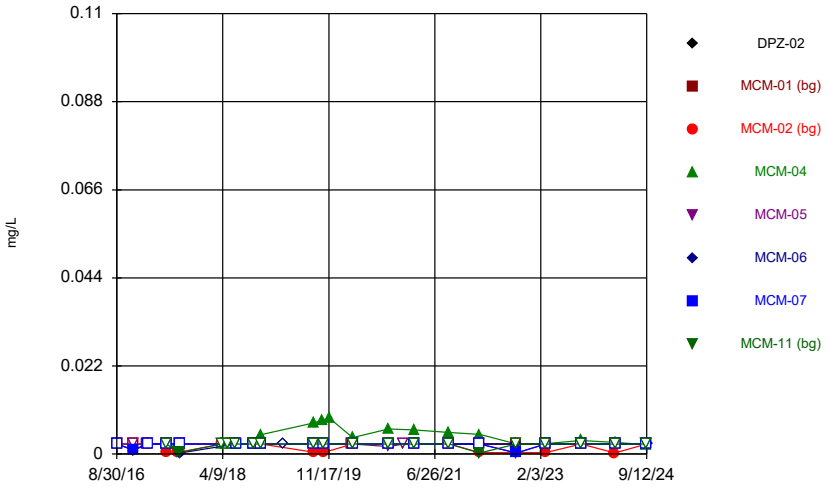
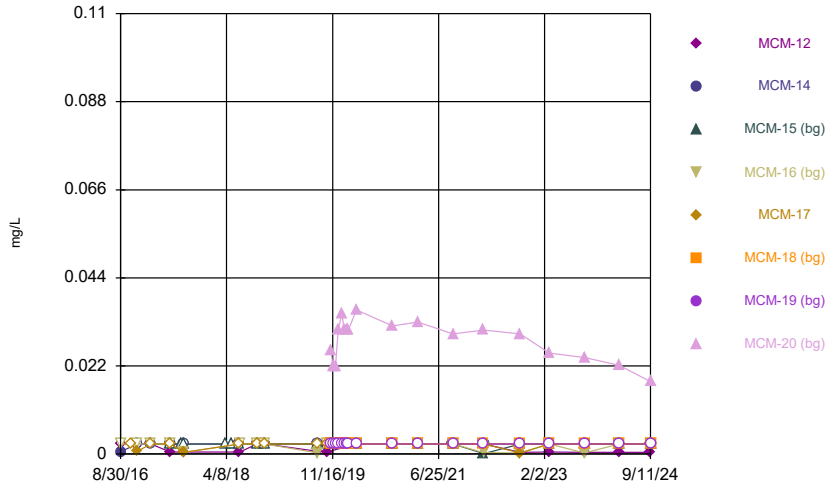


Constituent: Cobalt Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

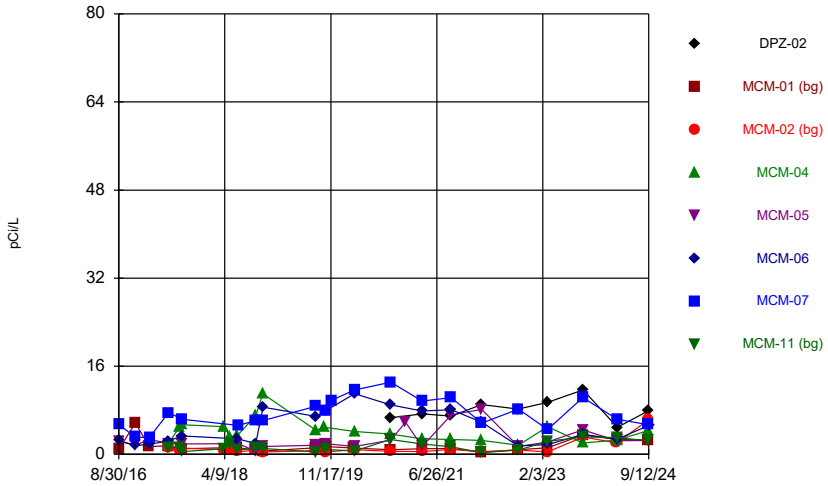
Time Series



Constituent: Cobalt Analysis Run 11/25/2024 8:39 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

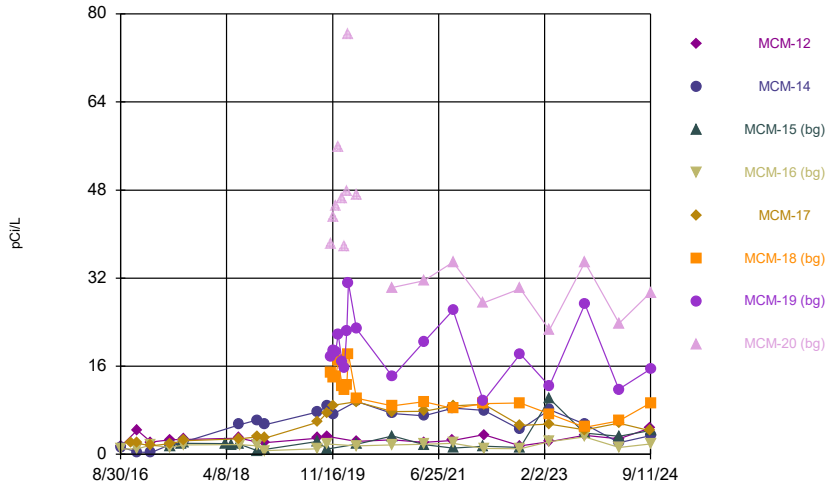


Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



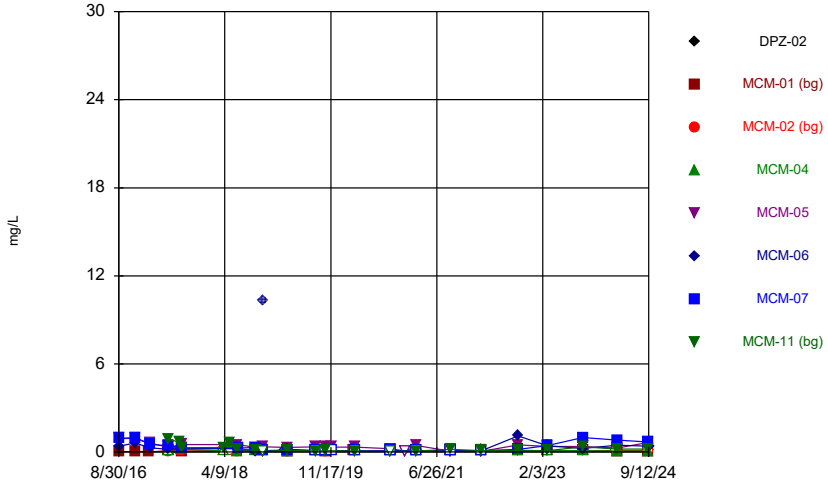
Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:39 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



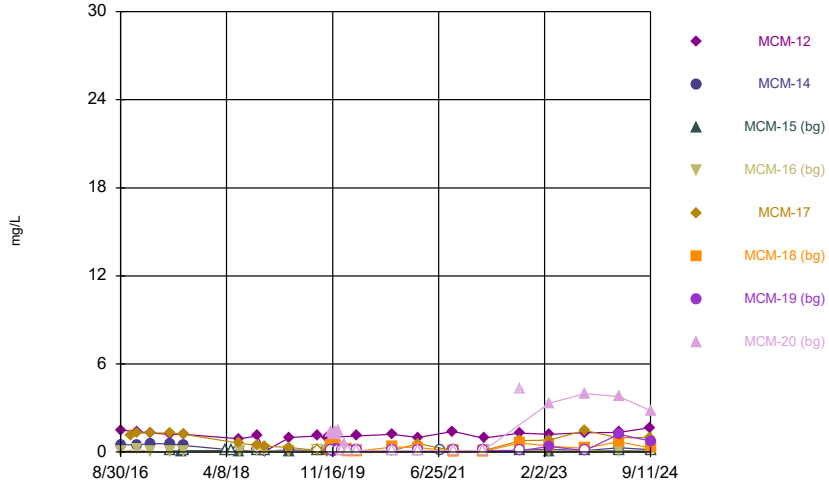
Constituent: Fluoride Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

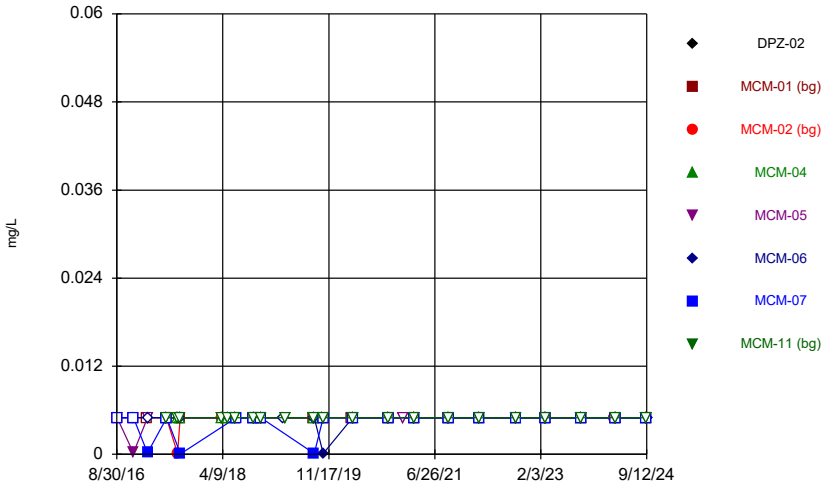


Constituent: Fluoride Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

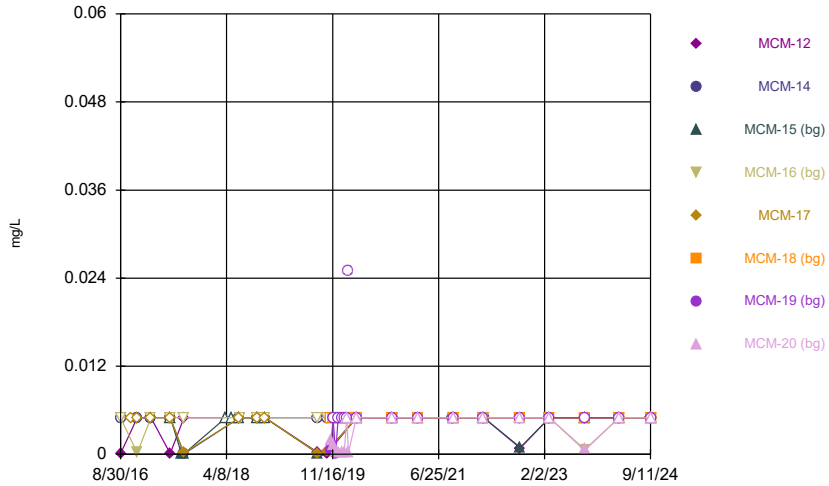
Time Series



Constituent: Lead Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

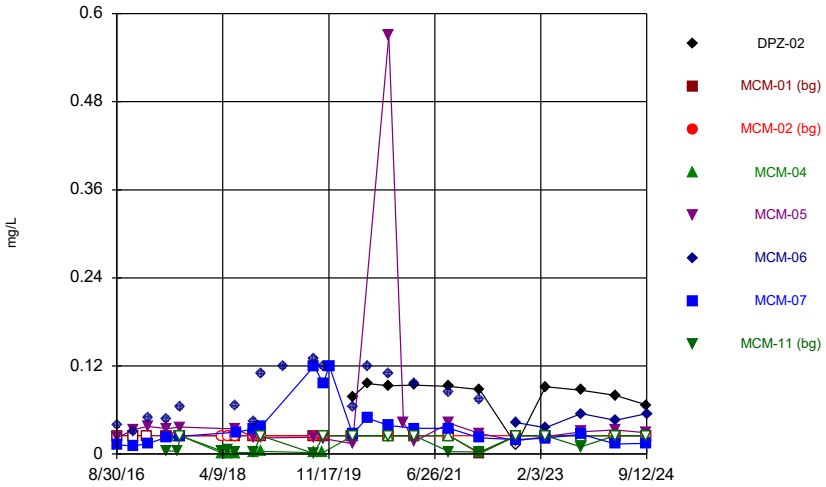
Time Series



Constituent: Lead Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

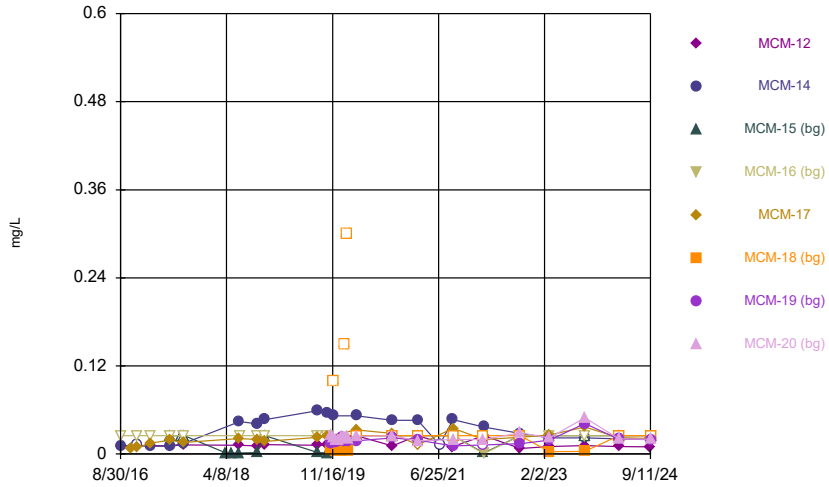
Time Series



Constituent: Lithium Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

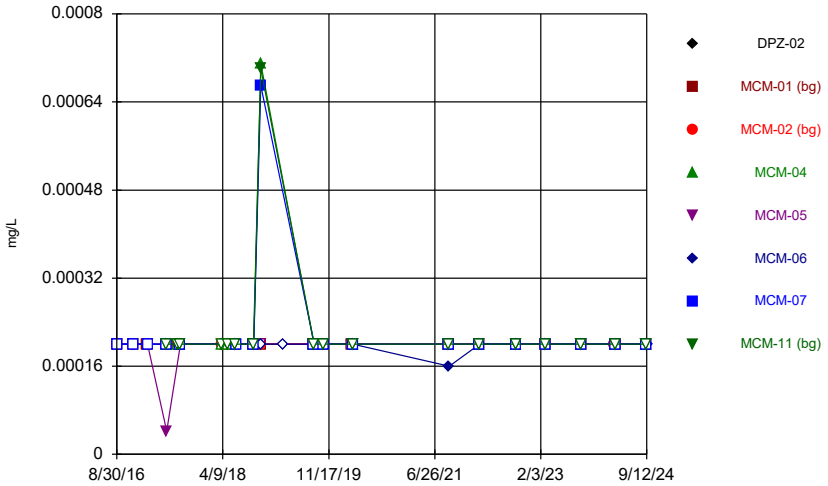
Time Series



Constituent: Lithium Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

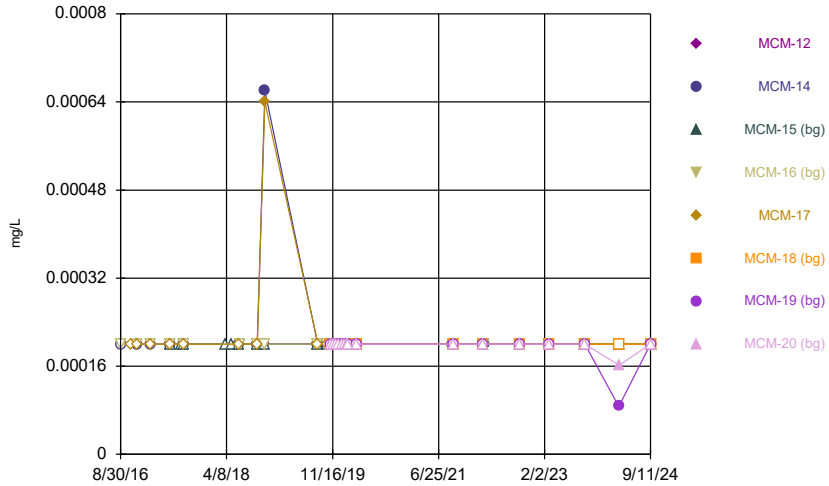
Time Series



Constituent: Mercury Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

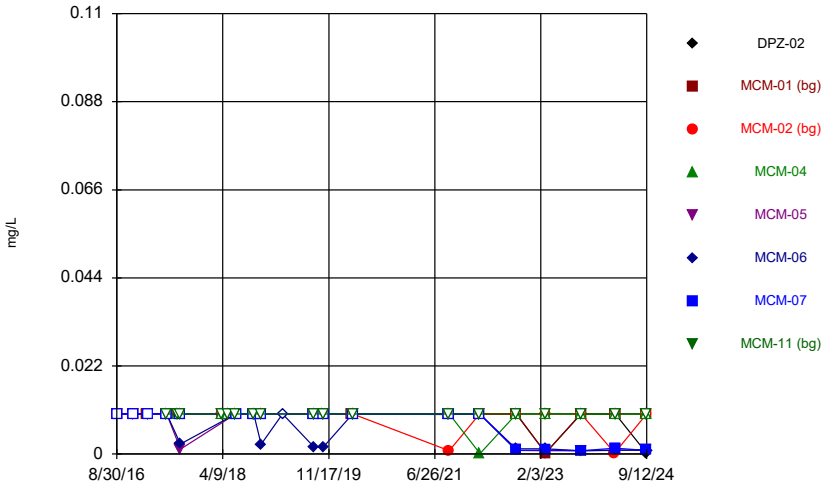
Time Series



Constituent: Mercury Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

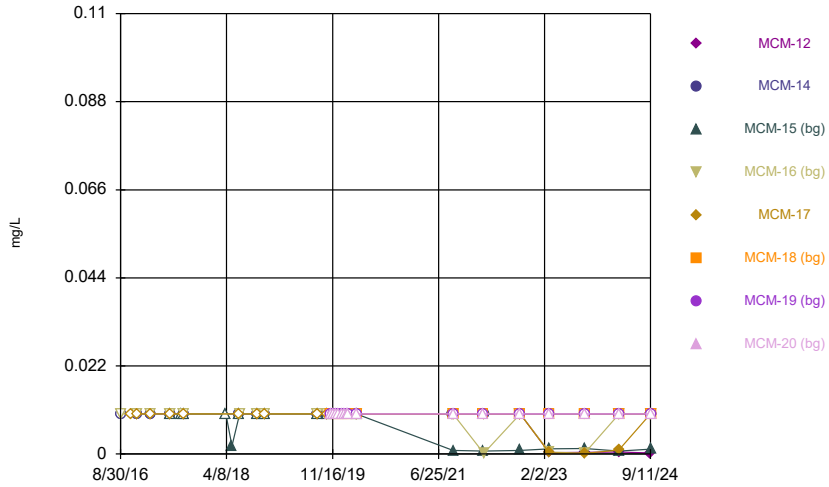
Time Series



Constituent: Molybdenum Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

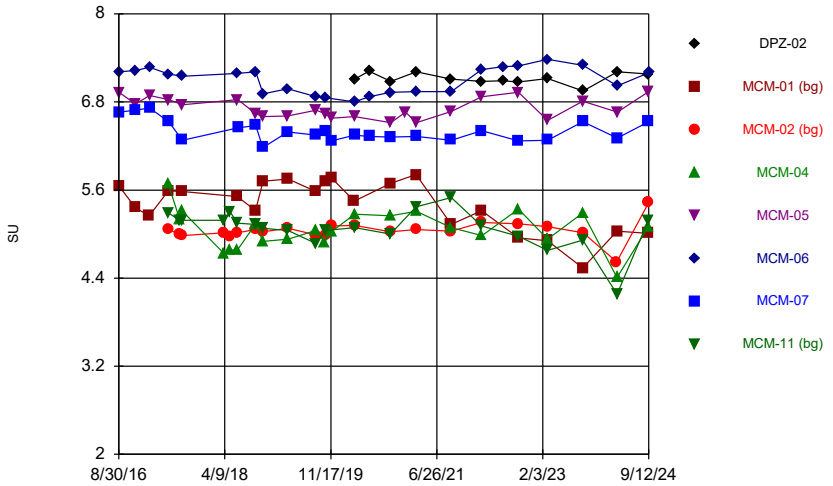
Time Series



Constituent: Molybdenum Analysis Run 11/25/2024 8:40 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

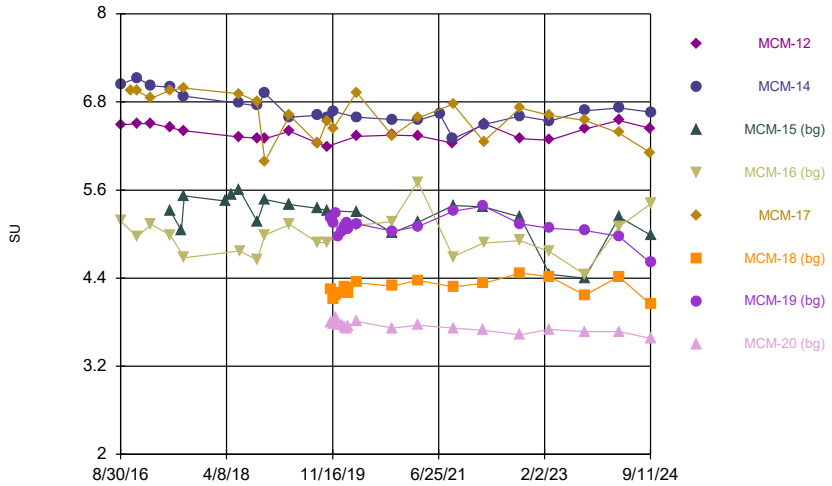


Constituent: pH, Field Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



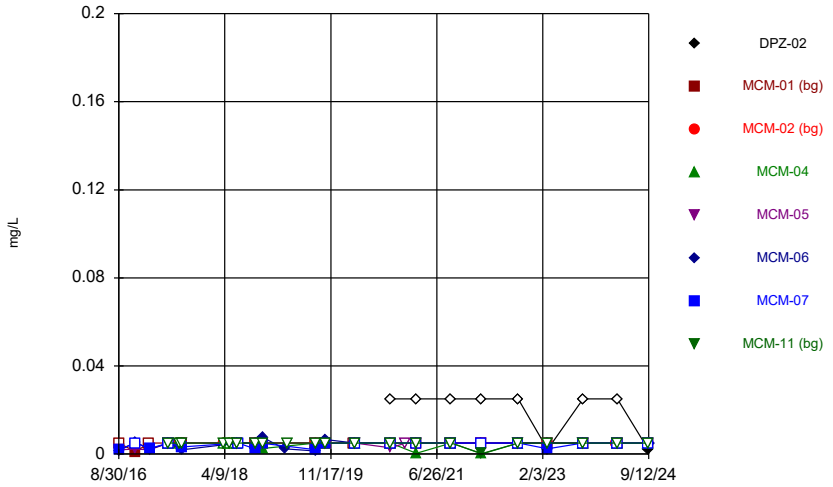
Constituent: pH, Field Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



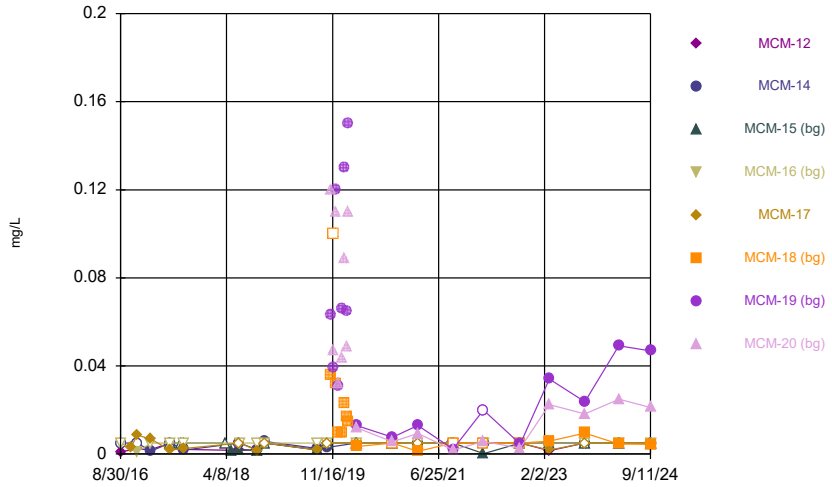
Constituent: Selenium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

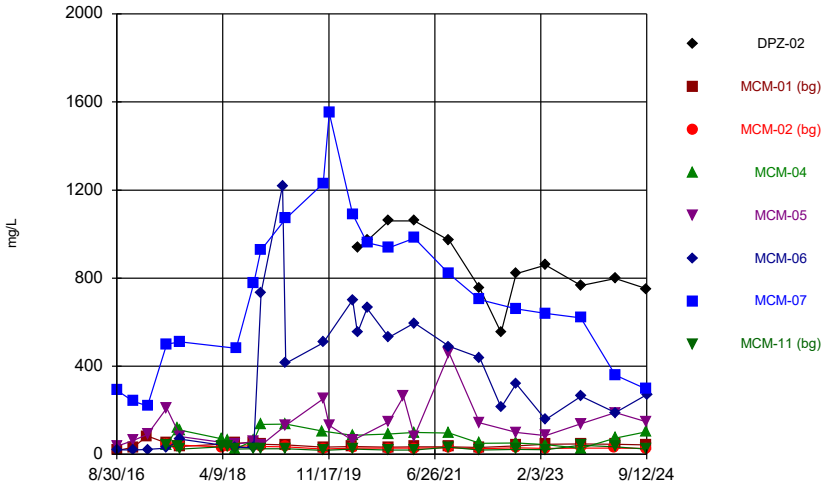


Constituent: Selenium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



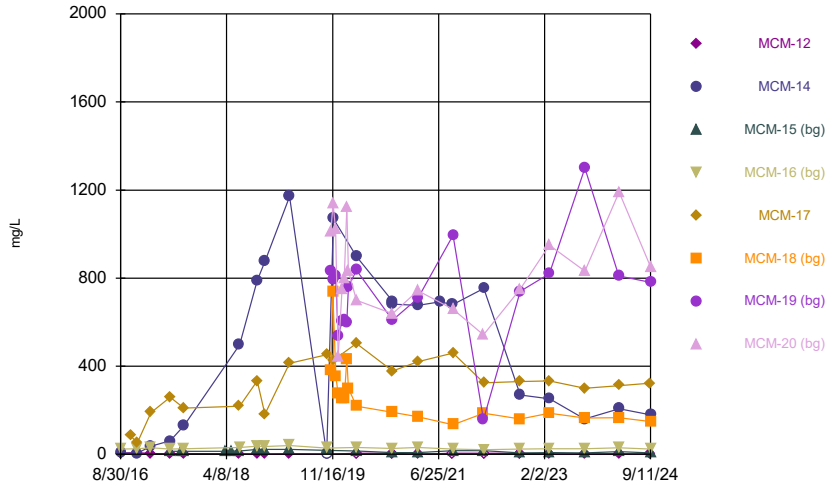
Constituent: Sulfate Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



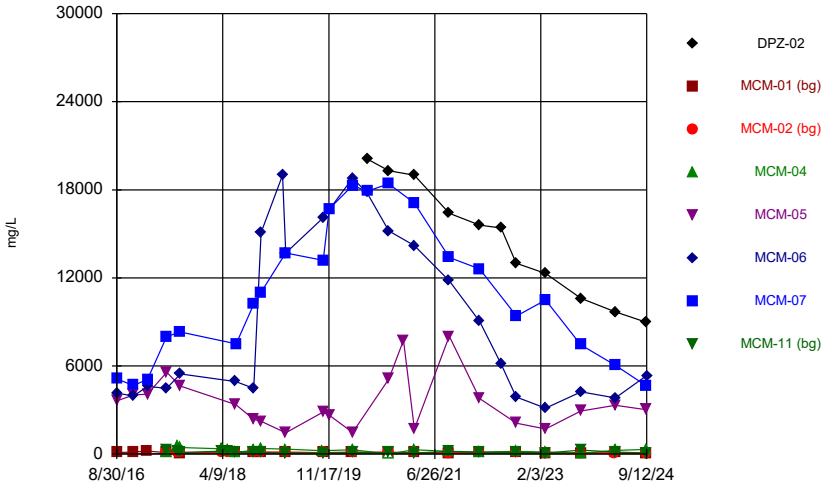
Constituent: Sulfate Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



Constituent: TDS Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

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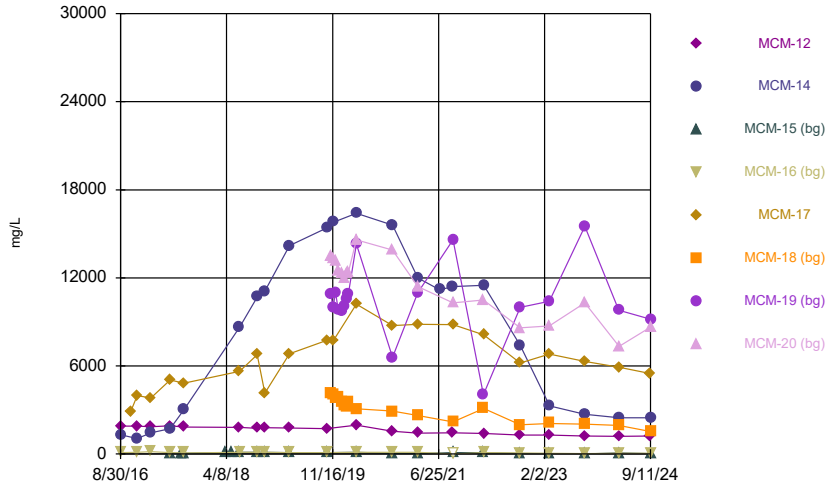
Hollow symbols indicate censored values.

Time Series



Constituent: TDS Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

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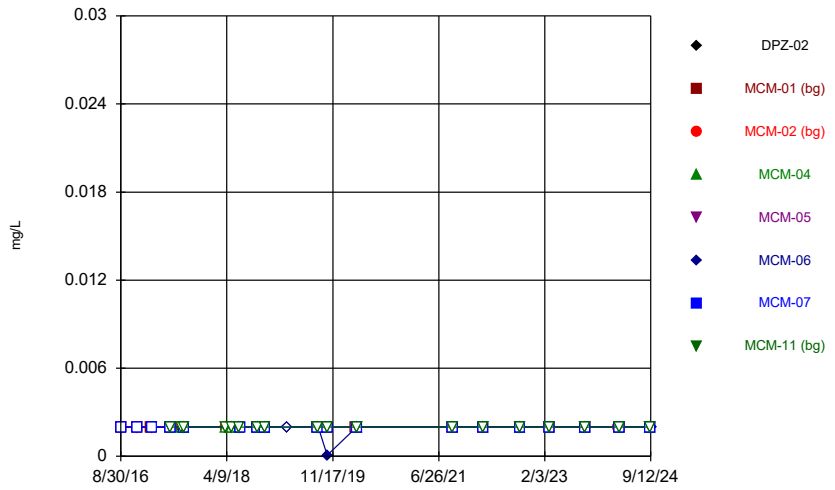
Hollow symbols indicate censored values.

Time Series

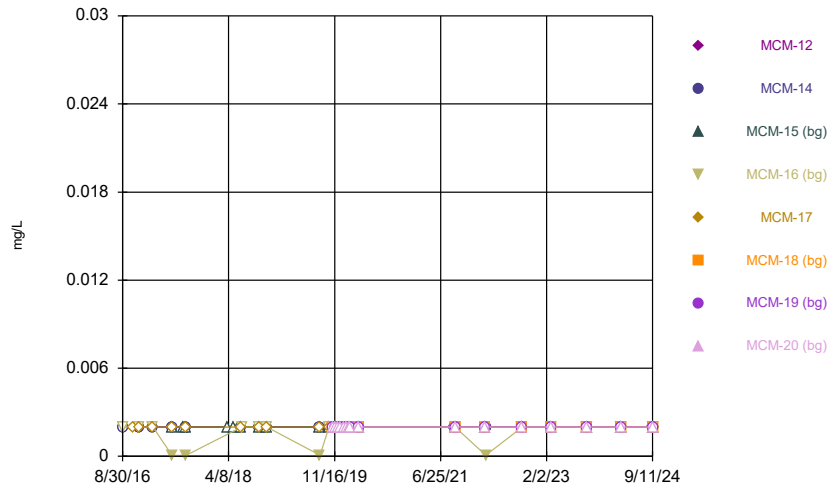


Constituent: Thallium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.003						
8/31/2016					<0.003	<0.003	<0.003	
11/30/2016		<0.003			<0.003	<0.003	<0.003	
2/15/2017		<0.003						
2/16/2017					<0.003	<0.003	<0.003	
5/31/2017			<0.003					<0.003
6/1/2017		<0.003		<0.003				
6/2/2017					<0.003	<0.003	<0.003	
8/2/2017			<0.003	<0.003				<0.003
8/15/2017								<0.003
8/16/2017		<0.003	<0.003					
8/17/2017				<0.003	<0.003	<0.003	<0.003	
4/4/2018				<0.003				<0.003
4/5/2018			<0.003					
5/8/2018				<0.003				<0.003
5/9/2018			<0.003					
6/19/2018		<0.003	<0.003					<0.003
6/20/2018				<0.003	<0.003	<0.003		
6/21/2018							<0.003	
9/25/2018								<0.003
9/26/2018		<0.003	<0.003					
9/27/2018				<0.003	<0.003	<0.003	<0.003	
11/6/2018				<0.003			<0.003	<0.003
11/7/2018		<0.003	<0.003		<0.003	<0.003		
3/6/2019						<0.003		
3/25/2019								<0.003
8/27/2019		<0.003		<0.003				
8/28/2019			<0.003		<0.003	0.00098 (J)	<0.003	<0.003
10/15/2019				<0.003				
10/16/2019		<0.003	<0.003		<0.003			<0.003
10/17/2019						0.0009 (J)	<0.003	
3/26/2020		<0.003						
3/27/2020			<0.003					<0.003
3/28/2020				<0.003	<0.003	0.0029 (J)	<0.003	
9/14/2021	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022	<0.003				<0.003	<0.003		
3/2/2022		<0.003	<0.003				<0.003	<0.003
3/3/2022				<0.003				
9/20/2022	<0.003					<0.003		
9/21/2022		<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
3/1/2023		<0.003	<0.003	<0.003				<0.003
3/2/2023	<0.003				<0.003	<0.003	<0.003	
9/12/2023		<0.003			<0.003			
9/13/2023				<0.003			<0.003	<0.003
9/14/2023	<0.003		<0.003			<0.003		
3/19/2024			<0.003					
3/20/2024		<0.003		<0.003				<0.003
3/21/2024	<0.003				<0.003	<0.003	<0.003	
9/10/2024				<0.003				<0.003
9/11/2024	<0.003	<0.003	<0.003		<0.003		<0.003	
9/12/2024						<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.003	<0.003		<0.003				
10/25/2016					<0.003			
11/30/2016	<0.003	<0.003		<0.003	<0.003			
2/15/2017	<0.003	<0.003		<0.003	<0.003			
5/31/2017	<0.003	<0.003			<0.003			
6/1/2017				<0.003				
6/2/2017			<0.003					
8/2/2017			<0.003					
8/15/2017	<0.003				<0.003			
8/16/2017		<0.003						
8/17/2017			<0.003	<0.003				
4/4/2018			<0.003					
5/8/2018			<0.003					
6/19/2018	<0.003	<0.003	<0.003		<0.003			
6/20/2018				<0.003				
9/25/2018	<0.003	<0.003						
9/26/2018			<0.003	<0.003	<0.003			
11/6/2018		<0.003			<0.003			
11/7/2018	<0.003		<0.003	<0.003				
8/26/2019		0.0004 (J)						
8/27/2019	<0.003		<0.003	<0.003	<0.003			
10/15/2019	<0.003	<0.003	<0.003					
10/16/2019				<0.003	<0.003			
11/7/2019						<0.003	<0.003	<0.003
11/18/2019						<0.003		
11/19/2019							<0.003	<0.003
12/4/2019							0.00041 (J)	<0.003
12/5/2019						<0.003		
12/17/2019							<0.003	
12/18/2019						<0.003		<0.003
1/8/2020							<0.003	<0.003
1/9/2020						<0.003		
1/21/2020						<0.003	<0.003	<0.003
2/4/2020						<0.003	<0.003	<0.003
2/13/2020						<0.003	<0.003	<0.003
3/27/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/13/2021	<0.003	<0.003						
9/14/2021			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022							<0.003	<0.003
3/2/2022			<0.003			<0.003		
3/3/2022	<0.003	<0.003		<0.003	<0.003			
9/20/2022						<0.003	<0.003	<0.003
9/21/2022	<0.003	<0.003	<0.003	<0.003	<0.003			
2/28/2023	<0.003				<0.003	<0.003	<0.003	<0.003
3/1/2023				<0.003				
3/2/2023		<0.003	<0.003					
9/12/2023	<0.003	<0.003	<0.003	<0.003				
9/13/2023					<0.003		<0.003	<0.003
9/14/2023						<0.003		
3/19/2024	<0.003				<0.003	<0.003	<0.003	
3/20/2024		<0.003	<0.003					
3/21/2024				<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.003				<0.003			
9/11/2024		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.005						
8/31/2016					<0.02	0.212	0.0066	
11/30/2016		0.0018 (J)			0.0132	0.129	0.0281	
2/15/2017		0.0022 (J)						
2/16/2017					0.0372	0.257	0.0295	
5/31/2017			<0.005					0.0259
6/1/2017		0.0036 (J)		0.004 (J)				
6/2/2017					0.0335	0.0559	0.0286	
8/2/2017			0.0011 (J)	0.0028 (J)				0.0188
8/15/2017								0.0117
8/16/2017		0.0038 (J)	<0.005					
8/17/2017				0.0021 (J)	0.0336	0.458	0.0211	
2/20/2018					0.0267	0.305	0.0271	
4/4/2018				0.0023 (J)				0.017
4/5/2018			0.00098 (J)					
4/30/2018					0.025 (J)	0.36	0.016 (J)	
5/8/2018				0.0048 (J)				0.016
5/9/2018			0.0014 (J)					
6/19/2018		0.0069	0.0011 (J)					0.011
6/20/2018				0.0099	0.019	0.44		
6/21/2018							0.022 (J)	
7/24/2018					0.0079	0.45	0.014	
8/28/2018					0.0079	0.36	0.014	
9/25/2018								0.011
9/26/2018		0.0081	<0.005					
9/27/2018				0.01	0.0035 (J)	0.27	0.015	
10/30/2018					0.0029 (J)	0.42	0.0061	
11/6/2018				0.013			0.012	0.0043 (J)
11/7/2018		0.0069	0.00059 (J)		0.002 (J)	0.5		
11/27/2018					0.0016 (J)	0.5	0.011	
12/18/2018					0.0043 (J)	0.6	0.018	
1/22/2019					0.0028 (J)	0.48	0.0097	
2/22/2019					0.00095 (J)	0.46	0.024 (J)	
3/6/2019						0.49		
3/25/2019								0.0029 (J)
3/26/2019					0.0018 (J)	0.3	0.0078	
6/4/2019					0.0019 (J)	0.41	0.017	
7/2/2019					0.0024 (J)	0.37	0.027	
7/29/2019					0.0021 (J)	0.45	0.0053	
8/26/2019					0.0021 (J)	0.46	0.0052	
8/27/2019		0.0079		0.0072				
8/28/2019			<0.005		0.0019 (J)	0.5	0.011	0.005 (J)
9/30/2019					0.002 (J)		0.0036 (J)	
10/2/2019						0.6		
10/15/2019				0.0038 (J)				
10/16/2019		0.01	0.003 (J)		0.0047 (J)			0.0054
10/17/2019						0.34	0.0046 (J)	
11/19/2019			0.00057 (J)					
11/20/2019		0.0064						
3/26/2020		0.0069						
3/27/2020			<0.005					0.0034 (J)
3/28/2020	<0.005			0.0034 (J)	<0.02	0.3	0.012	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
6/16/2020						0.51		
10/12/2020								0.0047 (J)
10/13/2020		0.0061	<0.005	0.0022 (J)				
10/14/2020						0.44 (D)	0.013	
10/15/2020	0.021				0.024			
1/4/2021					0.0072			
3/3/2021		0.016 (J)	<0.005					0.011 (J)
3/4/2021	0.017 (J)			0.0018 (J)	<0.02	0.35	0.015 (J)	
9/14/2021	0.022	0.0055	0.00067 (J)	0.0047 (J)	0.02 (J)	0.51	0.013 (J)	0.011
3/1/2022	0.015 (J)				0.011 (J)	0.24		
3/2/2022		0.0043	0.00077 (J)				0.009 (J)	0.0071
3/3/2022				0.0041				
6/28/2022	0.025					0.17		
9/20/2022	0.021					0.18		
9/21/2022		0.0057 (J)	<0.005	0.0017 (J)	0.0077		0.01	0.013
3/1/2023		0.00493 (J)	<0.005	0.00247 (J)				0.00868 (J)
3/2/2023	0.0202				0.00578 (J)	0.0764	0.014	
9/12/2023		0.00628			0.0113			
9/13/2023				0.00601			0.0117	0.0217
9/14/2023	0.0254		<0.005			0.0653		
3/19/2024			<0.005					
3/20/2024		0.0048 (J)		<0.005				0.0158
3/21/2024	0.0163 (J)				0.017	0.0675	0.0107 (J)	
9/10/2024				<0.005				0.0163
9/11/2024	0.0121	0.00586	<0.005		0.0249		0.00833	
9/12/2024						0.107		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005	<0.005		0.0018 (J)				
10/25/2016					<0.005			
11/30/2016	<0.005	<0.005		<0.005	0.0072			
2/15/2017	<0.005	<0.005		<0.005	0.0017 (J)			
5/31/2017	0.0007 (J)	0.0008 (J)			0.0018 (J)			
6/1/2017				<0.005				
6/2/2017			0.0026 (J)					
8/2/2017			0.0047 (J)					
8/15/2017	0.0006 (J)				0.0015 (J)			
8/16/2017		0.0007 (J)						
8/17/2017			0.0028 (J)	<0.005				
4/4/2018			0.0029 (J)					
5/8/2018			0.0048 (J)					
6/19/2018	0.001 (J)	0.0062 (J)	0.0019 (J)		0.0029 (J)			
6/20/2018				0.00058 (J)				
9/25/2018	0.0011 (J)	0.0031 (J)						
9/26/2018			0.0023 (J)	<0.005	0.0015 (J)			
11/6/2018		0.0014 (J)			<0.005			
11/7/2018	<0.005		<0.025	<0.005				
8/26/2019		0.0022 (J)						
8/27/2019	0.0011 (J)		0.0041 (J)	0.0019 (J)	0.0024 (J)			
10/15/2019	0.0024 (J)	0.0067	0.0038 (J)					
10/16/2019				0.001 (J)	0.0043 (J)			
11/7/2019						0.0067	0.0094 (J)	0.026
11/18/2019						0.012 (J)		
11/19/2019							0.019 (J)	0.031 (J)
11/21/2019					0.0031 (J)			
12/4/2019							0.016	0.026
12/5/2019						0.0055		
12/17/2019							0.011 (J)	
12/18/2019						0.0031 (J)		0.019 (J)
1/8/2020							0.015 (J)	0.022 (J)
1/9/2020						0.0034 (J)		
1/21/2020						0.0031 (J)	0.015 (J)	0.024 (J)
2/4/2020						<0.005	0.0092 (J)	0.022 (J)
2/13/2020						0.0066	0.021 (J)	0.029
3/27/2020	<0.005	<0.005	0.0018 (J)	<0.005	<0.005	0.0043 (J)	0.017	0.027
10/12/2020	<0.005					<0.005		
10/13/2020		<0.005	0.0042 (J)	<0.005	<0.005		0.0089	0.018
10/14/2020		<0.005						
3/2/2021	<0.005	<0.005	0.021 (J)					
3/3/2021				0.0012 (J)	<0.005	0.0014 (J)	0.0086 (J)	0.016 (J)
9/13/2021	<0.005	<0.005						
9/14/2021			0.0035 (J)	<0.005	<0.005	0.0029 (J)	0.018 (J)	0.028
3/1/2022							0.0061 (J)	0.032
3/2/2022			0.0032			0.0064 (J)		
3/3/2022	<0.005	<0.005		0.00024 (J)	<0.005			
9/20/2022						0.0026 (J)	0.021	0.026
9/21/2022	<0.005	<0.005	0.0044 (J)	<0.005	<0.005			
2/28/2023	<0.005				0.00226 (J)	0.00273 (J)	0.0173	0.0166
3/1/2023				0.00223 (J)				
3/2/2023		0.00201 (J)	0.00756 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.00234 (J)	0.00263 (J)	0.00677	<0.005				
9/13/2023					0.00283 (J)		0.0172	0.0182
9/14/2023						0.00374 (J)		
3/19/2024	<0.005				<0.005	0.00252 (J)	0.0173 (J)	
3/20/2024		<0.005	0.00409 (J)					
3/21/2024				<0.005				0.0206 (J)
9/10/2024	<0.005				<0.005			
9/11/2024		0.00215 (J)	0.00538	<0.005		0.0021 (J)	0.0134	0.0197

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.0443						
8/31/2016					0.0289	0.0498	0.0771	
11/30/2016		0.0524			0.0168	0.0528	0.101	
2/15/2017		0.124						
2/16/2017					0.016	0.0555	0.0865	
5/31/2017			0.127					0.0646
6/1/2017		0.0757		0.0195				
6/2/2017					0.0393 (J)	0.0508	0.123	
8/2/2017			0.121	0.053				0.0533
8/15/2017								0.0247
8/16/2017		0.0522	0.116					
8/17/2017				0.0475	0.0188	0.0596	0.124	
4/4/2018				0.035				0.057
4/5/2018			0.12					
5/8/2018				0.027				0.062
5/9/2018			0.11					
6/19/2018		0.083	0.1					0.031
6/20/2018				0.027	0.014	0.06		
6/21/2018							0.1	
9/25/2018								0.041
9/26/2018		0.073	0.11					
9/27/2018				0.14	0.0097 (J)	0.06	0.12	
11/6/2018				0.31			0.12	0.031
11/7/2018		0.071	0.097		0.0085 (J)	0.19		
3/6/2019						0.16		
3/25/2019								0.036
8/27/2019		0.077		0.083				
8/28/2019			0.1		0.011	0.13	0.4	0.035
10/15/2019				0.082				
10/16/2019		0.074	0.1		0.012			0.036
10/17/2019						0.13	0.35	
3/26/2020		0.07						
3/27/2020			0.095					0.039
3/28/2020				0.039	0.0041 (J)	0.12	0.11	
10/12/2020								0.039
10/13/2020		0.06	0.086	0.055				
10/14/2020						0.14	0.19	
10/15/2020	0.071				0.45			
1/4/2021					0.051			
3/3/2021		0.14	0.21					0.09
3/4/2021	0.096			0.062	0.0082 (J)	0.14	0.2	
9/14/2021	0.082	0.065	0.082	0.043	0.08	0.22	0.2	0.07
3/1/2022	0.074				0.035	0.084		
3/2/2022		0.064	0.08				0.12	0.05
3/3/2022				0.031				
9/20/2022	0.069					0.027		
9/21/2022		0.11	0.076	0.029	0.014		0.12	0.04
3/1/2023		0.097 (J)	0.0806 (J)	0.031 (J)				0.0405 (J)
3/2/2023	0.0601 (J)				0.0133 (J)	0.0195 (J)	0.0982 (J)	
9/12/2023		0.128			0.0257			
9/13/2023				0.0358			0.0745	0.0794
9/14/2023	0.0583		0.075			0.0456		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			0.0787					
3/20/2024		0.0969		0.0501				0.05
3/21/2024	0.0473				0.0287	0.0352	0.0493	
9/10/2024				0.063				0.0301
9/11/2024	0.0398	0.0868	0.0585		0.023		0.0454	
9/12/2024						0.0727		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.108	0.0131		0.0973				
10/25/2016					0.063			
11/30/2016	0.121	0.0105		0.11	0.0628			
2/15/2017	0.111	0.0786		0.0945	0.0102			
5/31/2017	0.131	0.0199			0.061			
6/1/2017				0.121				
6/2/2017			0.0368 (J)					
8/2/2017			0.0355					
8/15/2017	0.126				0.0579			
8/16/2017		0.033						
8/17/2017			0.037	0.121				
4/4/2018			0.039					
5/8/2018			0.037					
6/19/2018	0.13	0.092	0.038		0.076			
6/20/2018				0.13				
9/25/2018	0.12	0.098						
9/26/2018			0.049	0.13	0.099			
11/6/2018		0.1			0.052			
11/7/2018	0.11		0.05	0.12				
8/26/2019		0.12						
8/27/2019	0.14		0.048	0.13	0.11			
10/15/2019	0.14	0.12	0.041					
10/16/2019				0.13	0.14			
11/7/2019						0.12	0.22	0.16
11/18/2019						0.11		
11/19/2019							0.13	0.14
12/4/2019							0.14	0.14
12/5/2019						0.12		
12/17/2019							0.14	
12/18/2019						0.11		0.15
1/8/2020							0.14	0.14
1/9/2020						0.096		
1/21/2020						0.098	0.14	0.14
2/4/2020						0.091	0.13	0.12
2/13/2020						0.098	0.13	0.12
3/27/2020	0.12	0.13	0.041	0.13	0.16	0.076	0.12	0.12
10/12/2020	0.1					0.091		
10/13/2020		0.14	0.024	0.11	0.14		0.12	0.12
3/2/2021	0.1	0.16	0.067					
3/3/2021				0.059	0.17	0.099	0.14	0.12
9/13/2021	0.086	0.16						
9/14/2021			0.05	0.16	0.2	0.098	0.13	0.11
3/1/2022							0.14	0.11
3/2/2022			0.04			0.091		
3/3/2022	0.069	0.15		0.13	0.1			
9/20/2022						0.11	0.12	0.12
9/21/2022	0.068	0.059	0.022	0.11	0.089			
2/28/2023	0.071 (J)				0.0828 (J)	0.105 (J)	0.0869 (J)	0.0928 (J)
3/1/2023				0.109 (J)				
3/2/2023		0.0356 (J)	0.0282 (J)					
9/12/2023	0.074	0.0306	0.0272	0.116				
9/13/2023					0.0706		0.097	0.101

Time Series

Constituent: Barium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						0.127		
3/19/2024	0.0661				0.0776	0.123	0.0858	
3/20/2024		0.026	0.0396					
3/21/2024				0.101				0.097
9/10/2024	0.0633				0.0724			
9/11/2024		0.0279	0.0243	0.0651		0.123	0.0837	0.0823

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.0005						
8/31/2016					<0.0005	<0.0005	<0.0005	
11/30/2016		<0.0005			<0.0005	<0.0005	<0.0005	
2/15/2017		<0.0005						
2/16/2017					<0.0005	<0.0005	<0.0005	
5/31/2017			0.0002 (J)					7E-05 (J)
6/1/2017		9E-05 (J)		0.0001 (J)				
6/2/2017					<0.0005	<0.0005	<0.0005	
8/2/2017			0.0002 (J)	0.0003 (J)				0.0001 (J)
8/15/2017								9E-05 (J)
8/16/2017		<0.0005	0.0002 (J)					
8/17/2017				0.0002 (J)	<0.0005	<0.0005	<0.0005	
4/4/2018				<0.0005				<0.0005
4/5/2018			<0.0005					
5/8/2018				0.00025 (J)				0.0001 (J)
5/9/2018			0.00017 (J)					
6/19/2018		0.00011 (J)	0.00017 (J)					0.00011 (J)
6/20/2018				0.00021 (J)	<0.0005	<0.0005		
6/21/2018							<0.0005	
9/25/2018								0.0001 (J)
9/26/2018		9.2E-05 (J)	0.00017 (J)					
9/27/2018				0.00031 (J)	<0.0005	<0.0005	7.4E-05 (J)	
11/6/2018				0.00077 (J)			0.00012 (J)	0.00012 (J)
11/7/2018		0.0001 (J)	0.00015 (J)		5.4E-05 (J)	<0.0005		
3/6/2019						<0.0005		
8/27/2019		9E-05 (J)		0.00032 (J)				
8/28/2019			0.00011 (J)		<0.0005	<0.0005	<0.0005	8.4E-05 (J)
10/15/2019				0.00035 (J)				
10/16/2019		<0.0005	0.00013 (J)		<0.0005			9E-05 (J)
10/17/2019						<0.0005	7.8E-05 (J)	
3/26/2020		<0.0005						
3/27/2020			<0.0005					<0.0005
3/28/2020				<0.0005	<0.0005	<0.0005	<0.0005	
10/12/2020								<0.0005
10/13/2020		<0.0005	<0.0005	<0.0005				
10/14/2020						<0.0005	<0.0005	
10/15/2020	<0.0005				<0.0005			
1/4/2021					<0.0005			
3/3/2021		<0.0005	<0.0005					<0.0005
3/4/2021	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
9/14/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/1/2022	<0.0005				<0.0005	<0.0005		
3/2/2022		9.6E-05 (J)	0.00015				<0.0005	0.00011
3/3/2022				0.00025				
9/20/2022	<0.0005					<0.0005		
9/21/2022		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/1/2023		<0.0005	<0.0005	<0.0005				<0.0005
3/2/2023	<0.0005				<0.0005	<0.0005	<0.0005	
9/12/2023		0.000253 (J)			<0.0005			
9/13/2023				<0.0005			<0.0005	<0.0005
9/14/2023	<0.0005		<0.0005			<0.0005		
3/19/2024			<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/20/2024		<0.0005		0.000208 (J)				<0.0005
3/21/2024	<0.0005				<0.0005	<0.0005	<0.0005	
9/10/2024				0.000321 (J)				<0.0005
9/11/2024	<0.0005	0.0002 (J)	<0.0005		<0.0005		<0.0005	
9/12/2024						<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0003 (J)	<0.0005		0.0001 (J)				
10/25/2016					0.0004 (J)			
11/30/2016	0.0004 (J)	<0.0005		0.0002 (J)	0.0003 (J)			
2/15/2017	0.0004 (J)	<0.0005		<0.0005	<0.0005			
5/31/2017	0.0005 (J)	0.0001 (J)			0.0002 (J)			
6/1/2017				0.0002 (J)				
6/2/2017			0.0001 (J)					
8/2/2017			<0.0005					
8/15/2017	0.0005 (J)				0.0002 (J)			
8/16/2017		0.0002 (J)						
8/17/2017			0.0001 (J)	0.0002 (J)				
4/4/2018			<0.0005					
5/8/2018			0.00031 (J)					
6/19/2018	0.00065 (J)	<0.0005	0.00034 (J)		0.00032 (J)			
6/20/2018				0.00024 (J)				
9/25/2018	0.00066 (J)	5E-05 (J)						
9/26/2018			0.00039 (J)	0.00019 (J)	0.00024 (J)			
11/6/2018		9.7E-05 (J)			0.00026 (J)			
11/7/2018	0.00058 (J)		0.00041 (J)	0.00019 (J)				
8/26/2019		0.0001 (J)						
8/27/2019	0.0009 (J)		0.00042 (J)	0.00021 (J)	0.00018 (J)			
10/15/2019	0.00079 (J)	<0.0005	0.00034 (J)					
10/16/2019				0.00014 (J)	0.00014 (J)			
11/7/2019						0.007	0.0068 (J)	0.021
11/18/2019						0.0063 (J)		
11/19/2019							0.014 (J)	0.015 (J)
12/4/2019							0.01	0.011
12/5/2019						0.0045		
12/17/2019							0.012	
12/18/2019						0.0048		0.012
1/8/2020							0.015 (J)	0.017
1/9/2020						0.0043		
1/21/2020						0.0041 (J)	0.012 (J)	0.015
2/4/2020						0.0049 (J)	0.015 (J)	0.017 (J)
2/13/2020						0.0043	0.013 (J)	0.015 (J)
3/27/2020	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	0.004	0.011	0.018
10/12/2020	0.001 (J)					0.0041		
10/13/2020		<0.0005	<0.0005	<0.0005	<0.0005		0.015	0.017
3/2/2021	<0.005	<0.0005	<0.0005					
3/3/2021				<0.0005	<0.0005	0.003	0.015	0.014
9/13/2021	0.0011	<0.0005						
9/14/2021			0.00034 (J)	0.00062	<0.0005	0.0031	0.0062	0.016
3/1/2022							0.0057	0.016
3/2/2022			0.00032			0.0037		
3/3/2022	0.0012 (J)	<0.0005		0.00023	<0.0005			
9/20/2022						0.003	0.017	0.02
9/21/2022	0.0011 (J)	<0.0005	<0.0005	<0.0005	0.00029 (J)			
2/28/2023	0.00135 (J)				0.000279 (J)	0.0029 (J)	0.0144	0.0155
3/1/2023				0.000223 (J)				
3/2/2023		<0.0005	0.000201 (J)					
9/12/2023	0.00137	<0.0005	<0.0005	0.000209 (J)				
9/13/2023					0.000249 (J)		0.00707	0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						0.00267		
3/19/2024	0.00145				<0.0005	0.00243	0.0144	
3/20/2024		<0.0005	0.000215 (J)					
3/21/2024				<0.0005				0.0133
9/10/2024	0.00137				<0.0005			
9/11/2024		<0.0005	<0.0005	<0.0005		0.00225	0.0157	0.0127

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.0325 (J)						
8/31/2016					0.56	0.632	0.863	
11/30/2016		0.0334 (J)			0.529	0.637	0.804	
2/15/2017		0.254						
2/16/2017					0.539	0.698	0.815	
5/31/2017			0.161					0.0521
6/1/2017		0.0564		0.0608				
6/2/2017					0.555	0.674	0.891	
8/2/2017			0.158	0.137				0.0392 (J)
8/15/2017								0.0448
8/16/2017		0.0435	0.148					
8/17/2017				0.128	0.516	0.7	0.922	
4/4/2018				0.1				0.046
4/5/2018			0.13					
5/8/2018				0.074				0.048
5/9/2018			0.12					
6/19/2018		0.04 (J)	0.13					0.04
6/20/2018				0.045	0.51	0.69		
6/21/2018							0.99	
9/25/2018								0.043
9/26/2018		0.038 (J)	0.1					
9/27/2018				0.06	0.47	0.62	0.88	
11/6/2018				0.06			1.1	0.046
11/7/2018		0.037 (J)	0.1		0.51	0.86		
3/6/2019						1.5		
3/24/2019					0.44	1.1	1.2	
3/25/2019		0.038 (J)	0.091	0.058				0.03 (J)
10/15/2019				0.068				
10/16/2019		0.036 (J)	0.085		0.49			0.032 (J)
10/17/2019						1.3	1.1	
11/20/2019					0.53		1.3	
3/26/2020		0.064 (J)						
3/27/2020			0.17 (J)					0.058 (J)
3/28/2020				0.067 (J)	0.28 (J)	0.95	0.79	
6/16/2020	2.1					2	1.7	
10/12/2020								<2.5
10/13/2020		<2.5	<2.5	<0.5				
10/14/2020						1.5	1.8	
10/15/2020	2.1				0.61			
1/4/2021					0.99			
3/3/2021		<2.5	<2.5					<2.5
3/4/2021	2.2 (J)			0.11 (J)	0.4 (J)	1.4 (J)	1.6 (J)	
9/14/2021	2	0.079 (J)	0.093 (J)	0.07 (J)	0.95 (J)	1.1	1.5	0.06 (J)
3/1/2022	1.6 (J)				0.75 (J)	1.7		
3/2/2022		0.048 (J)	0.086				1.3	0.038 (J)
3/3/2022				0.053				
9/20/2022	1.7					1.1		
9/21/2022		0.35 (J)	0.23 (J)	0.19 (J)	0.61		1.3	0.17 (J)
3/1/2023		0.091	0.115	0.108				0.0461
3/2/2023	1.82				0.511	0.961	1.25	
9/12/2023		0.101			0.42			
9/13/2023				0.047			1.21	0.0783

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/14/2023	1.61		0.102			0.807		
3/19/2024			0.0924					
3/20/2024		0.0784		0.116				0.0443
3/21/2024	1.84				0.491	0.772	1.05	
9/10/2024				0.131				0.0483
9/11/2024	1.52	0.0753	0.0875		0.463		0.888	
9/12/2024						0.745		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1.18	0.726		0.0972 (J)				
10/25/2016					1.73			
11/30/2016	1.3	0.565		0.0964	2.12			
2/15/2017	1.33	0.647		0.398	2.14			
5/31/2017	1.38	0.503			2.24			
6/1/2017				0.0776				
6/2/2017			0.0495					
8/2/2017			0.0333 (J)					
8/15/2017	1.14				2.1			
8/16/2017		0.539						
8/17/2017			0.0593	0.0853				
4/4/2018			0.065					
5/8/2018			0.062					
6/19/2018	1.2	0.76	0.064		1.7			
6/20/2018				0.079				
9/25/2018	1	0.61						
9/26/2018			0.06	0.072	1.3			
11/6/2018		0.75			1.8			
11/7/2018	1.4		0.062 (J)	0.074				
3/24/2019	1	0.95			1.4			
3/25/2019			0.057	0.067				
10/15/2019	1.1	1	0.046					
10/16/2019				0.051	1.6			
11/7/2019						0.27	0.84	1.1
11/18/2019						0.29 (J)		
11/19/2019							0.83	1.3
11/21/2019		1			1.5			
12/4/2019							0.68	0.81
12/5/2019						0.23		
12/17/2019							0.57	
12/18/2019						0.23		0.77
1/8/2020							0.73	0.9
1/9/2020						0.2		
1/21/2020						0.24 (J)	0.75	0.94
2/4/2020						0.24 (J)	0.79 (J)	0.96 (J)
2/13/2020						0.22	0.74	0.88
3/27/2020	1.5	1.3	0.076 (J)	0.088 (J)	1.8	0.24 (J)	0.96	0.94
10/12/2020	1.3					0.24 (J)		
10/13/2020		1.1	<2.5	<0.5	1.8		0.73	1.1
10/14/2020		1.2						
3/2/2021	1.4 (J)	1.4 (J)	<2.5					
3/3/2021				<0.5	1.7 (J)	0.21 (J)	0.79 (J)	0.91 (J)
7/1/2021		0.26 (J)						
9/13/2021	1.4	1.2						
9/14/2021			0.068 (J)	0.071 (J)	2.1	0.2 (J)	1.2	0.91 (J)
3/1/2022							0.41 (J)	0.87 (J)
3/2/2022			0.054			0.23 (J)		
3/3/2022	1.2	0.89 (J)		0.057	1.4			
9/20/2022						0.18 (J)	0.77	0.9
9/21/2022	1.3	1	0.14 (J)	0.12 (J)	1.8			
2/28/2023	1.23				1.78	0.185	0.707	0.723
3/1/2023				0.0669				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023		0.738	0.0416					
9/12/2023	1.42	0.657	0.0393	0.0613				
9/13/2023					1.97		1.2	1.02
9/14/2023						0.229		
3/19/2024	1.33				1.73	0.185	0.704	
3/20/2024		0.474	0.0531					
3/21/2024				0.0603				0.864
9/10/2024	1.31				1.65			
9/11/2024		0.415	0.035	0.0517		0.172	0.61	0.841

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.001						
8/31/2016					<0.001	<0.001	<0.001	
11/30/2016		<0.001			<0.001	<0.001	<0.001	
2/15/2017		<0.001						
2/16/2017					<0.001	<0.001	<0.001	
5/31/2017			<0.001					<0.001
6/1/2017		<0.001		<0.001				
6/2/2017					<0.001	<0.001	<0.001	
8/2/2017			<0.001	<0.001				<0.001
8/15/2017								<0.001
8/16/2017		<0.001	<0.001					
8/17/2017				<0.001	<0.001	<0.001	<0.001	
4/4/2018				<0.001				<0.001
4/5/2018			<0.001					
5/8/2018				<0.001				<0.001
5/9/2018			<0.001					
6/19/2018		<0.001	<0.001					<0.001
6/20/2018				<0.001	<0.001	<0.001		
6/21/2018							<0.001	
9/25/2018								0.0002 (J)
9/26/2018		<0.001	<0.001					
9/27/2018				<0.001	<0.001	<0.001	<0.001	
11/6/2018				<0.001			<0.001	<0.001
11/7/2018		<0.001	<0.001		<0.001	<0.001		
3/6/2019						<0.001		
8/27/2019		<0.001		<0.001				
8/28/2019			<0.001		<0.001	<0.001	<0.001	<0.001
10/15/2019				<0.001				
10/16/2019		<0.001	<0.001		<0.001			<0.001
10/17/2019						<0.001	<0.001	
3/26/2020		<0.001						
3/27/2020			<0.001					<0.001
3/28/2020				<0.001	<0.001	<0.001	<0.001	
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022	<0.001				<0.001	<0.001		
3/2/2022		<0.001	<0.001				<0.001	<0.001
3/3/2022				0.00043				
9/20/2022	<0.001					<0.001		
9/21/2022		<0.001	<0.001	<0.001	<0.001		0.0002 (J)	<0.001
3/1/2023		<0.001	<0.001	<0.001				<0.001
3/2/2023	<0.001				<0.001	<0.001	<0.001	
9/12/2023		<0.001			<0.001			
9/13/2023				<0.001			<0.001	<0.001
9/14/2023	<0.001		<0.001			<0.001		
3/19/2024			<0.001					
3/20/2024		<0.001		<0.001				<0.001
3/21/2024	<0.001				<0.001	<0.001	<0.001	
9/10/2024				<0.001				<0.001
9/11/2024	<0.001	<0.001	<0.001		<0.001		<0.001	
9/12/2024						<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001	<0.001		<0.001				
10/25/2016					<0.001			
11/30/2016	<0.001	<0.001		<0.001	<0.001			
2/15/2017	<0.001	<0.001		<0.001	<0.001			
5/31/2017	<0.001	<0.001			<0.001			
6/1/2017				<0.001				
6/2/2017			<0.001					
8/2/2017			<0.001					
8/15/2017	<0.001				<0.001			
8/16/2017		<0.001						
8/17/2017			<0.001	<0.001				
4/4/2018			<0.001					
5/8/2018			<0.001					
6/19/2018	<0.001	<0.001	<0.001		<0.001			
6/20/2018				<0.001				
9/25/2018	<0.001	<0.001						
9/26/2018			<0.001	<0.001	<0.001			
11/6/2018		<0.001			<0.001			
11/7/2018	<0.001		<0.001	<0.001				
8/26/2019		<0.001						
8/27/2019	<0.001		<0.001	<0.001	<0.001			
10/15/2019	<0.001	<0.001	<0.001					
10/16/2019				<0.001	<0.001			
11/7/2019						<0.001	<0.001	0.00034 (J)
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/27/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/13/2021	<0.001	<0.001						
9/14/2021			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022			<0.001			<0.001		
3/3/2022	<0.001	<0.001		<0.001	<0.001			
9/20/2022						0.00078 (J)	0.0083 (O)	0.0043
9/21/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
2/28/2023	<0.001				<0.001	<0.001	<0.001	<0.001
3/1/2023				<0.001				
3/2/2023		<0.001	<0.001					
9/12/2023	<0.001	<0.001	<0.001	<0.001				
9/13/2023					<0.001		<0.001	<0.001
9/14/2023						<0.001		
3/19/2024	<0.001				<0.001	<0.001	<0.001	
3/20/2024		<0.001	<0.001					
3/21/2024				<0.001				<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.001				<0.001			
9/11/2024		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		7.3						
8/31/2016					65	82.8	119	
11/30/2016		10.8			71.7	68.7	103	
2/15/2017		14.3						
2/16/2017					74	94.8	114	
5/31/2017			5.9					18.6
6/1/2017		12.7 (J)		3.65				
6/2/2017					120	92.5	179	
8/2/2017			4.69	12.4				18.5
8/15/2017								4.09
8/16/2017		8.7	5.25					
8/17/2017				8.17	100	126	186	
4/4/2018				6.8				<25
4/5/2018			5					
5/8/2018				5.7				18.4 (J)
5/9/2018			4.7					
6/19/2018		11.6 (J)	4.8					4.3
6/20/2018				4.3	72.8	121		
6/21/2018							179	
6/28/2018		13						
9/25/2018								6.2
9/26/2018		12.8 (J)	4.6					
9/27/2018				16.4 (J)	46.6	95.1	193	
11/6/2018				39.5			219	1.8
11/7/2018		11.9	4.6		41.8	364		
3/6/2019						341		
3/24/2019					20.9 (J)	277	243	
3/25/2019		12.6 (J)	4.7	20.8 (J)				2.5
10/15/2019				15.5				
10/16/2019		13.6	4.9		55.2			2.2
10/17/2019						309	260	
11/20/2019					55.8		308	
3/26/2020		10.1						
3/27/2020			4.9					3.3
3/28/2020				15.5	25.8	286	286	
4/23/2020	266					266		
6/16/2020	245					234	254	
10/12/2020								2.8
10/13/2020		9.8	3.8	12.5				
10/14/2020						219 (D)	216	
10/15/2020	194				69.1			
1/4/2021					107			
3/3/2021		14	4					2.1
3/4/2021	257			15.1	23.4	233	244	
9/14/2021	273	9.6	4.2	12.5	13.9	299	225	14
3/1/2022	303				48.4	131		
3/2/2022		8.2	4.1				198	6.8
3/3/2022				8				
6/28/2022	225					73.5		
9/20/2022	240					47		
9/21/2022		9.2	4.3	7.8	28		190	7.6
3/1/2023		7.87	5.26	7.75				6.53

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/2/2023	234				25.9	36.1	194	
9/12/2023		10.1			61.5			
9/13/2023				4.93			136	20.7
9/14/2023	158		6.64			83.1		
3/19/2024			4.73					
3/20/2024		11.3		10.1				9.1
3/21/2024	182				75.5	66.6	89.1	
9/10/2024				9.06				6.36
9/11/2024	162	9.6	5.36		78.5		72.5	
9/12/2024						134		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	7.05	42.8		4.02				
10/25/2016					69.4			
11/30/2016	8.69	33.2		4.87	83.9			
2/15/2017	8.34	56.1		6.61	96.3			
5/31/2017	8.85	73.6			122			
6/1/2017				6.42				
6/2/2017			2.77					
8/2/2017			1.27					
8/15/2017	8.05				117			
8/16/2017		99.6						
8/17/2017			5.53	5.62				
4/4/2018			6.5					
5/8/2018			6.7					
6/19/2018	8.3	285	7.4		136			
6/20/2018				5.7				
6/28/2018	8.9	294			138			
9/25/2018	6.8	283						
9/26/2018			8.5 (J)	5.3	148			
11/6/2018		297			24.7			
11/7/2018	8.5		9.8	5.3				
3/24/2019	7.4	338			136			
3/25/2019			7.8	5.7				
10/15/2019	7.9	321	6.7					
10/16/2019				4.8	118			
11/7/2019						46.2	158	163
11/18/2019						41.8		
11/19/2019							152	169
11/21/2019		305			125			
12/4/2019							142	140
12/5/2019						40.5		
12/17/2019							136	
12/18/2019						42		145
1/8/2020							147	157
1/9/2020						37.1		
1/21/2020						40.1	167	152
2/4/2020						36.2	142	139
2/13/2020						38.9	148	146
3/27/2020	8.3	286	5.9	5.4	222	23.2	122	113
10/12/2020	6.1					19.1		
10/13/2020		40.9	0.83	5.7	86.4		125	128
10/14/2020		177						
3/2/2021	6.5	205	1.4					
3/3/2021				11.2	143	26	123	110
7/1/2021		231						
9/13/2021	6	165						
9/14/2021			6.7	6.5	190	18.8	93.6	61.1
3/1/2022							35.5	99.8
3/2/2022			7.2			22.3		
3/3/2022	4.6	224		5.4	84			
9/20/2022						20	150	100
9/21/2022	4.7	74	0.83	4.6	110			
2/28/2023	5.17				94.2	22.5	150	104

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023				4.74				
3/2/2023		48	1.41					
9/12/2023	4.98	55.3	0.953	4.48				
9/13/2023					84.6		202	108
9/14/2023						21.1		
3/19/2024	4.99				63.2	19.7	138	
3/20/2024		40.6	4.88					
3/21/2024				5.32				102
9/10/2024	4.67				57.2			
9/11/2024		41.3	0.928	5.49		15.3	127	87.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		9.7						
8/31/2016					1800	2200	2600	
11/30/2016		19			1100	2100	2800	
2/15/2017		21						
2/16/2017					2100	2500	3100	
5/31/2017			39					98
6/1/2017		12		22				
6/2/2017					3100	2500	4600	
8/2/2017			42	230				57
8/15/2017								15
8/16/2017		14	41					
8/17/2017				210	2600	2700	4600	
4/4/2018				156				69
4/5/2018			40.2					
5/8/2018				140				72.3
5/9/2018			40.6					
6/19/2018		24.4	37.7					17.3
6/20/2018				27.5	1800	3100		
6/21/2018							3920	
9/25/2018								31.3
9/26/2018		23.4	33.4					
9/27/2018				101	1300	2510	5660	
11/6/2018				107			6520	9.8
11/7/2018		21.8	30.7		1180	8860		
3/6/2019						11700		
3/24/2019					717	6470	8720	
3/25/2019		19.4	33.5	78.5				12.9
10/15/2019				46				
10/16/2019		21.4	33.1		1390			12.2
10/17/2019						9930	8210	
11/20/2019					1480		9810	
3/26/2020		23						
3/27/2020			32.9					14.5
3/28/2020				71.4	693	9190	9070	
4/23/2020	7500					7390		
6/16/2020	7780					7760	7580	
10/12/2020								13.9
10/13/2020		13.5	25.7	54.4				
10/14/2020						6780 (D)	8170	
10/15/2020	<1				1660			
1/4/2021					2460			
3/3/2021		13.6	20.5					9.4
3/4/2021	8280			69.6	652	6310	7540	
9/14/2021	7610	16.7	21.8	28.5	3940	5360	6300	62.8
3/1/2022	6750				1680	4150		
3/2/2022		13.4	20.6				5630	28.4
3/3/2022				12.2				
6/28/2022	9640					3520		
9/20/2022	7400					2800		
9/21/2022		17	23	47	1100		6400	32
3/1/2023		14.9	21.8	45.6				17.7
3/2/2023	6860				853	1470	5450	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/12/2023		10.7			1330			
9/13/2023				10.4			3690	98.5
9/14/2023	5380		21.1			2220		
3/19/2024			20					
3/20/2024		10.8		82.3				32.1
3/21/2024	5440				1830	2120	3240	
9/10/2024				100				11.2
9/11/2024	4570	9.34	16.4		1800		2440	
9/12/2024						3240		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	800	450		26				
10/25/2016					1300			
11/30/2016	760	310		27	400			
2/15/2017	740	490		30	2000			
5/31/2017	740	820			2500			
6/1/2017				27				
6/2/2017			11					
8/2/2017			3.2					
8/15/2017	750				2500			
8/16/2017		1500						
8/17/2017			12	32				
4/4/2018			13.4					
5/8/2018			13.2					
6/19/2018	760	5180	13.7		3050			
6/20/2018				30				
9/25/2018	752	7220						
9/26/2018			18.5	28.4	3965 (D)			
11/6/2018		6020			2230			
11/7/2018	665		20.2	25.1				
3/24/2019	744	7400			3960			
3/25/2019			19.7	21.8				
10/15/2019	744	9050	17.1					
10/16/2019				20	4260			
11/7/2019						2360	6170	7880
11/18/2019						6970		
11/19/2019							5650	8130
11/21/2019		8330			3890			
12/4/2019							6100	7410
12/5/2019						2130		
12/17/2019							5660	
12/18/2019						2090		7170
1/8/2020							5070	6480
1/9/2020						1750		
1/21/2020						1630	5010	6000
2/4/2020						1760	5030	5700
2/13/2020						1850	6140	7060
3/27/2020	675	7680	14.1	23.6	4770	1450	6870	7110
10/12/2020	552					1340		
10/13/2020		6230	3.8	23.3	3980		5260	5980
10/14/2020		6230						
3/2/2021	459	5680	4.2					
3/3/2021				27.6	3920	1230	5170	5500
7/1/2021		5960						
9/13/2021	433	5010						
9/14/2021			13.6	30	4090	1020	7250	5100
3/1/2022							1870	4900
3/2/2022			14.3			1420		
3/3/2022	394	5040		26.5	3540			
9/20/2022						1200	6200	5700
9/21/2022	400	3300	3.3	17	3300			
2/28/2023	518				2770	1250	5760	7930
3/1/2023				14.2				

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023		1810	4.88					
9/12/2023	326	1180	3.49	13.3				
9/13/2023					2660		8600	5250
9/14/2023						1190		
3/19/2024	361				3130	1100	5460	
3/20/2024		1390	13.5					
3/21/2024				11.5				4980
9/10/2024	297				3080			
9/11/2024		1320	3.34	9.65		856	4880	4420

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.01						
8/31/2016					0.0013 (J)	0.001 (J)	0.0022 (J)	
11/30/2016		<0.01			0.0012 (J)	<0.01	<0.01	
2/15/2017		<0.01						
2/16/2017					0.0012 (J)	0.0011 (J)	0.0028 (J)	
5/31/2017			<0.01					<0.01
6/1/2017		<0.01		0.0008 (J)				
6/2/2017					<0.01	<0.01	0.0023 (J)	
8/2/2017			<0.01	0.0012 (J)				<0.01
8/15/2017								0.0006 (J)
8/16/2017		<0.01	<0.01					
8/17/2017				0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)	
4/4/2018				<0.01				<0.01
4/5/2018			<0.01					
5/8/2018				<0.01				<0.01
5/9/2018			<0.01					
6/19/2018		<0.01	<0.01					<0.01
6/20/2018				<0.01	<0.01	<0.01		
6/21/2018							<0.01	
9/25/2018								<0.01
9/26/2018		<0.01	<0.01					
9/27/2018				<0.01	<0.01	<0.01	0.0024 (J)	
11/6/2018				0.0017 (J)			0.002 (J)	<0.01
11/7/2018		<0.01	<0.01		<0.01	<0.01		
3/6/2019						<0.01		
3/25/2019								<0.01
8/27/2019		0.00079 (J)		0.0018 (J)				
8/28/2019			0.0035 (J)		0.00047 (J)	0.00085 (J)	0.0024 (J)	0.00053 (J)
10/15/2019				0.0012 (J)				
10/16/2019		<0.01	<0.01		0.00057 (J)			0.00072 (J)
10/17/2019						0.0015 (J)	0.0019 (J)	
3/26/2020		<0.01						
3/27/2020			<0.01					<0.01
3/28/2020				<0.01	<0.01	<0.01	<0.01	
9/14/2021	<0.01	<0.01	0.0056	<0.01	<0.01	<0.01	<0.01	<0.01
3/1/2022	<0.01				<0.01	<0.01		
3/2/2022		<0.01	<0.01				<0.01	0.00094 (J)
3/3/2022				0.00085 (J)				
9/20/2022	<0.01					<0.01		
9/21/2022		0.0014 (J)	<0.01	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0015 (J)
3/1/2023		<0.01	<0.01	<0.01				<0.01
3/2/2023	<0.01				<0.01	<0.01	<0.01	
9/12/2023		<0.01			<0.01			
9/13/2023				<0.01			<0.01	<0.01
9/14/2023	<0.01		<0.01			<0.01		
3/19/2024			<0.01					
3/20/2024		<0.01		<0.01				<0.01
3/21/2024	<0.01				<0.01	<0.01	<0.01	
9/10/2024				<0.01				<0.01
9/11/2024	<0.01	<0.01	<0.01		<0.01		<0.01	
9/12/2024						<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0054 (J)	0.0026 (J)		<0.01				
10/25/2016					0.016			
11/30/2016	0.0073 (J)	0.0016 (J)		0.001 (J)	0.0151 (J)			
2/15/2017	0.0045 (J)	0.0018 (J)		<0.01	0.0137			
5/31/2017	0.0052 (J)	0.0019 (J)			0.0109			
6/1/2017				0.0004 (J)				
6/2/2017			0.0019 (J)					
8/2/2017			0.0017 (J)					
8/15/2017	0.005 (J)				0.0117			
8/16/2017		0.0019 (J)						
8/17/2017			0.0027 (J)	0.0005 (J)				
4/4/2018			<0.01					
5/8/2018			0.0029 (J)					
6/19/2018	0.0047 (J)	<0.01	0.002 (J)		0.013 (J)			
6/20/2018				<0.01				
9/25/2018	<0.01	<0.01						
9/26/2018			0.003 (J)	<0.01	0.0092 (J)			
11/6/2018		<0.01			<0.01			
11/7/2018	<0.01		<0.01	<0.01				
8/26/2019		0.00071 (J)						
8/27/2019	0.0056 (J)		0.0026 (J)	0.00043 (J)	0.0066 (J)			
10/15/2019	0.0057 (J)	0.00076 (J)	0.0026 (J)					
10/16/2019				<0.01	0.0063 (J)			
11/7/2019						0.0038 (J)	0.005 (J)	0.0083 (J)
11/18/2019						0.0046 (J)		
11/19/2019							0.0059 (J)	0.0096 (J)
12/4/2019							0.0073 (J)	0.0099 (J)
12/5/2019						0.0046 (J)		
12/17/2019							0.009 (J)	
12/18/2019						0.0045 (J)		0.011 (J)
1/8/2020							0.0077 (J)	0.0092 (J)
1/9/2020						0.004 (J)		
1/21/2020						0.0036 (J)	0.007 (J)	0.009 (J)
2/4/2020						<0.01	0.0057 (J)	0.0078 (J)
2/13/2020						0.0036 (J)	0.0063 (J)	0.0091 (J)
3/27/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0095 (J)
9/13/2021	<0.01	<0.01						
9/14/2021			0.0027 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
3/1/2022							<0.01	<0.01
3/2/2022			0.0029			<0.01		
3/3/2022	<0.01	<0.01		<0.01	<0.01			
9/20/2022						0.0021 (J)	<0.01	<0.01
9/21/2022	0.0077 (J)	0.0015 (J)	0.002 (J)	0.0015 (J)	0.0063 (J)			
2/28/2023	0.00663 (J)				0.00623 (J)	<0.01	0.00575 (J)	0.00573 (J)
3/1/2023				<0.01				
3/2/2023		<0.01	<0.01					
9/12/2023	0.00703 (J)	<0.01	<0.01	<0.01				
9/13/2023					0.00608 (J)		0.00386 (J)	0.00673 (J)
9/14/2023						<0.01		
3/19/2024	0.00689 (J)				0.00466 (J)	<0.01	<0.01	
3/20/2024		<0.01	<0.01					
3/21/2024				<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	0.00672 (J)				0.00441 (J)			
9/11/2024		<0.01	<0.01	<0.01		<0.01	0.00601 (J)	0.00551 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.0025						
8/31/2016					<0.0025	<0.0025	<0.0025	
11/30/2016		<0.0025			<0.0025	0.0009 (J)	0.0011 (J)	
2/15/2017		<0.0025						
2/16/2017					<0.0025	<0.0025	<0.0025	
5/31/2017			0.0005 (J)					<0.0025
6/1/2017		<0.0025		<0.0025				
6/2/2017					<0.0025	<0.0025	<0.0025	
8/2/2017			0.0005 (J)	<0.0025				0.0006 (J)
8/15/2017								0.0004 (J)
8/16/2017		<0.0025	0.0005 (J)					
8/17/2017				<0.0025	<0.0025	0.0003 (J)	<0.0025	
4/4/2018				<0.0025				<0.0025
4/5/2018			<0.0025					
5/8/2018				<0.0025				<0.0025
5/9/2018			<0.0025					
6/19/2018		<0.0025	<0.0025					<0.0025
6/20/2018				<0.0025	<0.0025	<0.0025		
6/21/2018							<0.0025	
9/25/2018								<0.0025
9/26/2018		<0.0025	<0.0025					
9/27/2018				<0.0025	<0.0025	<0.0025	<0.0025	
11/6/2018				0.0048 (J)			<0.0025	<0.0025
11/7/2018		<0.0025	<0.0025		<0.0025	<0.0025		
3/6/2019						<0.0025		
8/27/2019		<0.0025		0.0078				
8/28/2019			0.00042 (J)		<0.0025	<0.0025	<0.0025	<0.0025
10/15/2019				0.0085				
10/16/2019		<0.0025	0.00037 (J)		<0.0025			<0.0025
10/17/2019						<0.0025	<0.0025	
11/20/2019				0.009				
3/26/2020		<0.0025						
3/27/2020			<0.0025					<0.0025
3/28/2020				0.0041 (J)	<0.0025	<0.0025	<0.0025	
10/12/2020								<0.0025
10/13/2020		<0.0025	<0.0025	0.0063				
10/14/2020						<0.0025	<0.0025	
10/15/2020	<0.0025				0.0019 (J)			
1/4/2021					<0.0025			
3/3/2021		<0.0025	<0.0025					<0.0025
3/4/2021	<0.0025			0.006	<0.0025	<0.0025	<0.0025	
9/14/2021	<0.0025	<0.0025	<0.0025	0.0054	<0.0025	<0.0025	<0.0025	<0.0025
3/1/2022	<0.0025				<0.0025	<0.0025		
3/2/2022		<0.0025	0.00035 (J)				<0.0025	0.00029 (J)
3/3/2022				0.0049				
9/20/2022	<0.0025					<0.0025		
9/21/2022		<0.0025	0.00032 (J)	0.0025	0.00026 (J)		0.00031 (J)	<0.0025
3/1/2023		<0.0025	0.000372 (J)	0.00256 (J)				<0.0025
3/2/2023	<0.0025				<0.0025	<0.0025	<0.0025	
9/12/2023		<0.0025			<0.0025			
9/13/2023				0.00341			<0.0025	<0.0025
9/14/2023	<0.0025		<0.0025			<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			0.000301 (J)					
3/20/2024		<0.0025		0.00291				<0.0025
3/21/2024	<0.0025				<0.0025	<0.0025	<0.0025	
9/10/2024				0.00238				<0.0025
9/11/2024	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025	
9/12/2024						<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0025	0.0006 (J)		<0.0025				
10/25/2016					<0.0025			
11/30/2016	<0.0025	<0.0025		<0.0025	0.0007 (J)			
2/15/2017	<0.0025	<0.0025		<0.0025	<0.0025			
5/31/2017	0.0005 (J)	<0.0025			<0.0025			
6/1/2017				<0.0025				
6/2/2017			<0.0025					
8/2/2017			<0.0025					
8/15/2017	0.0005 (J)				0.0004 (J)			
8/16/2017		<0.0025						
8/17/2017			<0.0025	0.0004 (J)				
4/4/2018			<0.0025					
5/8/2018			<0.0025					
6/19/2018	0.00053 (J)	<0.0025	<0.0025		<0.0025			
6/20/2018				<0.0025				
9/25/2018	<0.0025	<0.0025						
9/26/2018			<0.0025	<0.0025	<0.0025			
11/6/2018		<0.0025			<0.0025			
11/7/2018	<0.0025		<0.0025	<0.0025				
8/26/2019		<0.0025						
8/27/2019	0.0007 (J)		<0.0025	0.0003 (J)	<0.0025			
10/15/2019	0.00054 (J)	<0.0025	<0.0025					
10/16/2019				<0.0025	<0.0025			
11/7/2019						<0.0025	<0.0025	0.026
11/18/2019						<0.0025		
11/19/2019							<0.0025	0.022 (J)
12/4/2019							<0.0025	0.022
12/5/2019						<0.0025		
12/17/2019							<0.0025	
12/18/2019						<0.0025		0.031
1/8/2020							<0.0025	0.035
1/9/2020						<0.0025		
1/21/2020						<0.0025	<0.0025	0.031
2/4/2020						<0.0025	<0.0025	0.031 (J)
2/13/2020						<0.0025	<0.0025	0.031
3/27/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.036
10/12/2020	<0.0025					<0.0025		
10/13/2020		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	0.032
3/2/2021	<0.0025	<0.0025	<0.0025					
3/3/2021				<0.0025	<0.0025	<0.0025	<0.0025	0.033
9/13/2021	<0.0025	<0.0025						
9/14/2021			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.03
3/1/2022							<0.0025	0.031
3/2/2022			7.7E-05 (J)			<0.0025		
3/3/2022	<0.0025	<0.0025		0.00035 (J)	<0.0025			
9/20/2022						<0.0025	<0.0025	0.03
9/21/2022	0.00042 (J)	<0.0025	<0.0025	0.00024 (J)	0.00025 (J)			
2/28/2023	0.00052 (J)				<0.0025	<0.0025	<0.0025	0.0252 (J)
3/1/2023				<0.0025				
3/2/2023		<0.0025	<0.0025					
9/12/2023	0.000429 (J)	<0.0025	<0.0025	0.000301 (J)				
9/13/2023					<0.0025		<0.0025	0.0241

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						<0.0025		
3/19/2024	0.000452 (J)				<0.0025	<0.0025	<0.0025	
3/20/2024		<0.0025	<0.0025					
3/21/2024				<0.0025				0.0222
9/10/2024	0.000453 (J)				<0.0025			
9/11/2024		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	0.0181

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.929						
8/31/2016					2.39	2.47	5.4	
11/30/2016		5.64			1.66	1.6	3.13	
2/15/2017		1.41						
2/16/2017					2.71	1.83	3.09	
5/31/2017			1.17					1.2
6/1/2017		1.51		1.9				
6/2/2017					1.99	2.45	7.56	
8/2/2017			0.704 (U)	5.01				1.26
8/15/2017								0.511 (U)
8/16/2017		1.01 (U)	1.11 (U)					
8/17/2017				5.35	1.87	3.33	6.38	
4/4/2018				5.05				1.04
4/5/2018			0.868					
5/8/2018				3.25				1.95
5/9/2018			0.888					
6/19/2018		1.23	0.483 (U)					0.785 (U)
6/20/2018				3.53	1.95	2.84		
6/21/2018							5.24	
9/25/2018								1.15
9/26/2018		0.72 (U)	0.73 (U)					
9/27/2018				7.07	0.629 (U)	1.94	6.11	
11/6/2018				11			6.1	1.1
11/7/2018		0.616 (U)	0.429 (U)		1.41 (U)	8.58		
8/27/2019		1.2 (U)		4.4				
8/28/2019			0.679 (U)		1.67	6.86	8.73	0.434 (U)
10/15/2019				4.92				
10/16/2019		1.4 (U)	0.422 (U)		1.92			0.923 (U)
10/17/2019						7.85	7.97	
11/20/2019							9.8	
3/26/2020		1.15 (U)						
3/27/2020			0.838 (U)					0.609 (U)
3/28/2020				4.16	1.44 (U)	11	11.7	
10/12/2020								2.7
10/13/2020		0.855 (U)	0.56 (U)	3.71				
10/14/2020						8.97	13.1	
10/15/2020	6.65				2.56			
1/4/2021					5.84			
4/6/2021	7.33	1.01 (U)	0.474 (U)	2.83	1.43 (U)	7.89	9.66	1.88
9/14/2021	6.97	1.06 (U)	0.878 (U)	2.69	7.15	8.11	10.3	1.37 (U)
3/1/2022	9.03				8.16 (U)	5.83		
3/2/2022		0.379 (U)	0.476 (U)				5.66	0.313 (U)
3/3/2022				2.51				
9/20/2022	8.2					1.51		
9/21/2022		0.863	0.789	1.67	1.42		8.23	0.797
3/1/2023		1.18 (U)	0.439 (U)	5.05				2.35
3/2/2023	9.42				2.22	1.79	4.5	
9/12/2023		3.54			4.42			
9/13/2023				2.05			10.3	3.14
9/14/2023	11.7		3.14			3.61		
3/19/2024			2.04					
3/20/2024		2.7		2.61				3.03

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/21/2024	4.89				2.48	2.73	6.37	
9/10/2024				4.33				2.49
9/11/2024	7.95	2.61	6.28		2.55		5.35	
9/12/2024						5.25		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1.4	1.31		0.977				
10/25/2016					2.22			
11/30/2016	4.37	0.438		0.994	2.01			
2/15/2017	2.21	0.3		1.65	1.56			
5/31/2017	2.62	1.77			1.92			
6/1/2017				1.22				
6/2/2017			1.47					
8/2/2017			1.99					
8/15/2017	2.69				2.47			
8/16/2017		2.26						
8/17/2017			2.03	1.71				
4/4/2018			1.96					
5/8/2018			1.69					
6/19/2018	2.96	5.39	1.83		2.82			
6/20/2018				1.78				
9/25/2018	2.23	6.22						
9/26/2018			0.637 (U)	1.56	3.15 (D)			
11/6/2018		5.38			2.95			
11/7/2018	2.14		0.894 (U)	0.651 (U)				
8/26/2019		7.68						
8/27/2019	2.91		2.33	1.03 (U)	5.82			
10/15/2019	3.28	8.7	0.979 (U)					
10/16/2019				1.86	7.5			
11/7/2019						14.8	17.7	38.2
11/18/2019						13.9		
11/19/2019							18.9	43.1
11/21/2019		7.34			8.89			
12/4/2019							18.6	45.1
12/5/2019						14.2		
12/17/2019							21.8	
12/18/2019						17		55.8
1/8/2020							16.9	46.5
1/9/2020						12.3		
1/21/2020						11.7	15.6	37.7
2/4/2020						12.7	22.4	47.9
2/13/2020						18.2	31.1	76.3 (O)
3/27/2020	2.33	9.63	1.84	1.51	9.54	10.2	22.8	47.2
10/12/2020	2.66					8.83		
10/13/2020		7.43	3.32	1.71	7.75		14.1	30.3
4/6/2021	2.2	7.02	1.74	1.81	7.8	9.57	20.4	31.5
9/13/2021	2.54	8.38						
9/14/2021			1.15 (U)	2.02	8.82	8.31	26.2	34.9
3/1/2022							9.65	27.5
3/2/2022			1.48			9.23		
3/3/2022	3.56 (U)	8		1.1 (U)	9.1			
9/20/2022						9.35	18.2	30.1
9/21/2022	1.54	4.52	1.23	1.02	5.26			
2/28/2023	2.29				5.48	7.34	12.4	22.6
3/1/2023				2.3				
3/2/2023		8.08	10.1					
9/12/2023	3.43	5.46	3.88	3.18				
9/13/2023					4.44		27.3	34.9

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						4.91		
3/19/2024	2.79				5.64	6.07	11.8	
3/20/2024		2.14	3.27					
3/21/2024				1.25 (U)				23.8
9/10/2024	4.8				4.29			
9/11/2024		3.4	4.32	1.89		9.3	15.5	29.4

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		0.03 (J)						
8/31/2016					0.93	0.41	0.92	
11/30/2016		0.04 (J)			0.93	0.61	0.99	
2/15/2017		0.007 (J)						
2/16/2017					0.6	0.3 (J)	0.54	
5/31/2017			0.01 (J)					0.85
6/1/2017		<0.1		<0.1				
6/2/2017					0.34	0.19 (J)	0.42	
8/2/2017			0.14 (J)	0.27 (J)				0.69
8/15/2017								0.29 (J)
8/16/2017		0.03 (J)	0.13 (J)					
8/17/2017				0.18 (J)	0.52	0.26 (J)	0.27 (J)	
4/4/2018				<0.1				0.32
4/5/2018			<0.1					
5/8/2018				0.56				0.63
5/9/2018			<0.1					
6/19/2018		<0.1	0.065 (J)					0.17 (J)
6/20/2018				0.033 (J)	0.5	0.22 (J)		
6/21/2018							0.28 (J)	
9/25/2018								0.15 (J)
9/26/2018		0.12 (J)	<0.1					
9/27/2018				0.12 (J)	0.32	0.068 (J)	0.32	
11/6/2018				<0.1			0.086 (J)	<0.1
11/7/2018		<0.1	<0.1		0.35	10.3 (O)		
3/6/2019						<0.1		
3/24/2019					0.32	0.19 (J)	0.14 (J)	
3/25/2019		0.038 (J)	0.039 (J)	0.055 (J)				0.12 (J)
8/27/2019		<0.1		<0.1				
8/28/2019			<0.1		0.36	<0.1	<0.1	0.068 (J)
10/15/2019				0.095 (J)				
10/16/2019		0.046 (J)	0.044 (J)		0.41			0.1 (J)
10/17/2019						<0.1	<0.1	
11/20/2019					0.34		<0.1	
3/26/2020		<0.1						
3/27/2020			<0.1					0.066 (J)
3/28/2020				<0.1	0.34	<0.1	<0.1	
10/12/2020								<0.1
10/13/2020		<0.1	<0.1	<0.1				
10/14/2020						<0.1	<0.1	
10/15/2020	0.11				0.22			
1/4/2021					<0.1			
3/3/2021		<0.1	<0.1					0.082 (J)
3/4/2021	<0.1			<0.1	0.45	<0.1	<0.1	
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.18
3/1/2022	<0.1				<0.1	<0.1		
3/2/2022		<0.1	<0.1				<0.1	0.097 (J)
3/3/2022				<0.1				
9/20/2022	<0.1					1.1 (J)		
9/21/2022		<0.1	<0.1	<0.1	0.48		0.18	0.11
3/1/2023		<0.1	<0.1	<0.1				0.101
3/2/2023	<0.1				0.388	0.419 (J)	0.44 (J)	
9/12/2023		<0.1			0.374			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/13/2023				0.0941 (J)			0.982 (J)	0.362
9/14/2023	<0.1		<0.1			0.246 (J)		
3/19/2024			<0.1					
3/20/2024		0.0748 (J)		0.0744 (J)				0.206
3/21/2024	<0.1				0.277	0.469 (J)	0.814 (J)	
9/10/2024				0.0749 (J)				0.202
9/11/2024	<0.1	0.0669 (J)	<0.1		0.654		0.692	
9/12/2024						0.392 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1.5	0.5		0.04 (J)				
10/25/2016					1.1			
11/30/2016	1.4	0.49		0.18 (J)	1.3			
2/15/2017	1.3	0.58		0.02 (J)	1.3			
5/31/2017	1.2	0.56			1.3			
6/1/2017				0.005 (J)				
6/2/2017			<0.1					
8/2/2017			0.05 (J)					
8/15/2017	1.2				1.2			
8/16/2017		0.45						
8/17/2017			<0.1	0.04 (J)				
4/4/2018			<0.1					
5/8/2018			<0.1					
6/19/2018	0.91	<0.1	0.057 (J)		0.6			
6/20/2018				0.038 (J)				
9/25/2018	1.1	<0.1						
9/26/2018			<0.1	<0.1	0.44 (D)			
11/6/2018		0.084 (J)			0.4			
11/7/2018	<0.1		<0.1	<0.1				
3/24/2019	0.99	0.14 (J)			0.31			
3/25/2019			0.036 (J)	0.041 (J)				
8/26/2019		<0.1						
8/27/2019	1.1		<0.1	<0.1	<0.1			
10/15/2019	1	<0.1	0.14 (J)					
10/16/2019				0.044 (J)	0.083 (J)			
11/7/2019						0.49	<0.1	1.4
11/18/2019						0.52		
11/19/2019							0.033 (J)	1.2
11/21/2019		<0.1			<0.1			
12/4/2019							0.22 (J)	1.4
12/5/2019						0.5		
12/17/2019							<0.1	
12/18/2019						0.33		1.5
1/8/2020							<0.1	<0.1
1/9/2020						0.12 (J)		
1/21/2020						0.13 (J)	0.11 (J)	0.53
2/4/2020						0.18 (J)	<0.1	<0.1
2/13/2020						0.077 (J)	<0.1	<0.1
3/27/2020	1.1	<0.1	<0.1	<0.1	<0.1	0.06 (J)	<0.1	<0.1
10/12/2020	1.2					0.34		
10/13/2020		<0.1	<0.1	<0.1	<0.1		<0.1	<0.1
3/2/2021	1	<0.1	<0.1					
3/3/2021				<0.1	0.58 (J)	0.32	<0.1	<0.1
7/1/2021		<0.1						
9/13/2021	1.4	<0.1						
9/14/2021			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022							<0.1	<0.1
3/2/2022			<0.1			<0.1		
3/3/2022	0.95	<0.1		<0.1	<0.1			
9/20/2022						0.61 (J)	<0.1	4.3 (JO)
9/21/2022	1.3	0.12	<0.1	<0.1	0.78			
2/28/2023	1.21				0.815	0.407 (J)	0.38 (J)	3.32

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023				0.0397 (J)				
3/2/2023		0.188 (J)	0.0397 (J)					
9/12/2023	1.32	<0.1	<0.1	<0.1				
9/13/2023					1.46		<0.1	3.98
9/14/2023						0.251 (J)		
3/19/2024	1.34				0.959 (J)	0.702	1.2 (J)	
3/20/2024		0.294 (J)	<0.1					
3/21/2024				0.0585 (J)				3.79
9/10/2024	1.67				0.986 (J)			
9/11/2024		0.164 (J)	<0.1	<0.1		0.267	0.743 (J)	2.83

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.005						
8/31/2016					<0.005	<0.005	<0.005	
11/30/2016		<0.005			0.0002 (J)	<0.005	<0.005	
2/15/2017		<0.005						
2/16/2017					<0.005	<0.005	0.0002 (J)	
5/31/2017			<0.005					<0.005
6/1/2017		<0.005		<0.005				
6/2/2017					<0.005	<0.005	<0.005	
8/2/2017			0.0001 (J)	<0.005				<0.005
8/15/2017								<0.005
8/16/2017		<0.005	<0.005					
8/17/2017				<0.005	<0.005	<0.005	8E-05 (J)	
4/4/2018				<0.005				<0.005
4/5/2018			<0.005					
5/8/2018				<0.005				<0.005
5/9/2018			<0.005					
6/19/2018		<0.005	<0.005					<0.005
6/20/2018				<0.005	<0.005	<0.005		
6/21/2018							<0.005	
9/25/2018								<0.005
9/26/2018		<0.005	<0.005					
9/27/2018				<0.005	<0.005	<0.005	<0.005	
11/6/2018				<0.005			<0.005	<0.005
11/7/2018		<0.005	<0.005		<0.005	<0.005		
3/6/2019						<0.005		
3/25/2019								<0.005
8/27/2019		<0.005		<0.005				
8/28/2019			<0.005		<0.005	<0.005	0.0001 (J)	<0.005
10/15/2019				<0.005				
10/16/2019		<0.005	<0.005		<0.005			<0.005
10/17/2019						0.00012 (J)	<0.005	
3/26/2020		<0.005						
3/27/2020			<0.005					<0.005
3/28/2020				<0.005	<0.005	<0.005	<0.005	
10/12/2020								<0.005
10/13/2020		<0.005	<0.005	<0.005				
10/14/2020						<0.005	<0.005	
10/15/2020	<0.005				<0.005			
1/4/2021					<0.005			
3/3/2021		<0.005	<0.005					<0.005
3/4/2021	<0.005			<0.005	<0.005	<0.005	<0.005	
9/14/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2022	<0.005				<0.005	<0.005		
3/2/2022		<0.005	<0.005				<0.005	<0.005
3/3/2022				<0.005				
9/20/2022	<0.005					<0.005		
9/21/2022		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
3/1/2023		<0.005	<0.005	<0.005				<0.005
3/2/2023	<0.005				<0.005	<0.005	<0.005	
9/12/2023		<0.005			<0.005			
9/13/2023				<0.005			<0.005	<0.005
9/14/2023	<0.005		<0.005			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			<0.005					
3/20/2024		<0.005		<0.005				<0.005
3/21/2024	<0.005				<0.005	<0.005	<0.005	
9/10/2024				<0.005				<0.005
9/11/2024	<0.005	<0.005	<0.005		<0.005		<0.005	
9/12/2024						<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0001 (J)	<0.005		<0.005				
10/25/2016					<0.005			
11/30/2016	<0.005	<0.005		0.0002 (J)	<0.005			
2/15/2017	<0.005	<0.005		<0.005	<0.005			
5/31/2017	9E-05 (J)	<0.005			<0.005			
6/1/2017				<0.005				
6/2/2017			<0.005					
8/2/2017			0.0001 (J)					
8/15/2017	<0.005				0.0002 (J)			
8/16/2017		8E-05 (J)						
8/17/2017			0.0001 (J)	<0.005				
4/4/2018			<0.005					
5/8/2018			<0.005					
6/19/2018	<0.005	<0.005	<0.005		<0.005			
6/20/2018				<0.005				
9/25/2018	<0.005	<0.005						
9/26/2018			<0.005	<0.005	<0.005			
11/6/2018		<0.005			<0.005			
11/7/2018	<0.005		<0.005	<0.005				
8/26/2019		<0.005						
8/27/2019	0.00022 (J)		0.00011 (J)	<0.005	0.00014 (J)			
10/15/2019	5.6E-05 (J)	<0.005	0.00038 (J)					
10/16/2019				<0.005	0.00034 (J)			
11/7/2019						<0.005	0.00063 (J)	0.0019 (J)
11/18/2019						<0.005		
11/19/2019							<0.005	0.0013 (J)
12/4/2019							5.3E-05 (J)	0.00045 (J)
12/5/2019						<0.005		
12/17/2019							<0.005	
12/18/2019						<0.005		0.00023 (J)
1/8/2020							<0.005	0.00029 (J)
1/9/2020						<0.005		
1/21/2020						<0.005	<0.005	0.00033 (J)
2/4/2020						<0.005	<0.005	<0.005
2/13/2020						<0.005	<0.025 (O)	0.00023 (J)
3/27/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/12/2020	<0.005					<0.005		
10/13/2020		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
3/2/2021	<0.005	<0.005	<0.005					
3/3/2021				<0.005	<0.005	<0.005	<0.005	<0.005
9/13/2021	<0.005	<0.005						
9/14/2021			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2022							<0.005	<0.005
3/2/2022			<0.005			<0.005		
3/3/2022	<0.005	<0.005		<0.005	<0.005			
9/20/2022						<0.005	<0.005	<0.005
9/21/2022	0.00083 (J)	<0.005	0.00092 (J)	<0.005	<0.005			
2/28/2023	<0.005				<0.005	<0.005	<0.005	<0.005
3/1/2023				<0.005				
3/2/2023		<0.005	<0.005					
9/12/2023	<0.005	<0.005	<0.005	0.000563 (J)				
9/13/2023					<0.005		<0.005	0.000678 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						<0.005		
3/19/2024	<0.005				<0.005	<0.005	<0.005	
3/20/2024		<0.005	<0.005					
3/21/2024				<0.005				<0.005
9/10/2024	<0.005				<0.005			
9/11/2024		<0.005	<0.005	<0.005		<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.025						
8/31/2016					0.0219 (J)	0.0389 (J)	0.0122 (J)	
11/30/2016		<0.025			0.0333 (J)	0.0303 (J)	0.011 (J)	
2/15/2017		<0.025						
2/16/2017					0.0376 (J)	0.05 (J)	0.0142 (J)	
5/31/2017			<0.025					0.0047 (J)
6/1/2017		<0.025		<0.025				
6/2/2017					0.0346 (J)	0.0477 (J)	0.0229 (J)	
8/2/2017			<0.025	<0.025				0.0036 (J)
8/15/2017								<0.025
8/16/2017		<0.025	<0.025					
8/17/2017				<0.025	0.0367 (J)	0.0645	0.0241 (J)	
4/4/2018				0.0013 (J)				0.0041 (J)
4/5/2018			<0.025					
5/8/2018				0.0012 (J)				0.0052 (J)
5/9/2018			<0.025					
6/19/2018		<0.025	<0.025					0.0017 (J)
6/20/2018				0.0015 (J)	0.034 (J)	0.066 (J)		
6/21/2018							0.03 (J)	
9/25/2018								0.0018 (J)
9/26/2018		<0.025	<0.025					
9/27/2018				0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)	
11/6/2018				0.0038 (J)			0.037 (J)	<0.025
11/7/2018		<0.025	<0.025		0.022 (J)	0.11		
3/6/2019						0.12		
8/27/2019		<0.025		0.002 (J)				
8/28/2019			<0.025		0.023 (J)	0.13	0.12	0.00082 (J)
10/15/2019				0.0019 (J)				
10/16/2019		<0.025	<0.025		0.021 (J)			<0.025
10/17/2019						0.12	0.096	
11/20/2019							0.12	
3/26/2020		<0.025						
3/27/2020			<0.025					<0.025
3/28/2020	0.078			<0.025	0.014 (J)	0.064	0.027 (J)	
6/16/2020	0.096 (J)					0.12 (J)	0.049 (J)	
10/12/2020								<0.025
10/13/2020		<0.025	<0.025	<0.025				
10/14/2020						0.11	0.039 (J)	
10/15/2020	0.093				0.57			
1/4/2021					0.043 (J)			
3/3/2021		<0.025	<0.025					<0.025
3/4/2021	0.094 (J)			<0.025	0.017 (J)	0.096 (J)	0.035 (J)	
9/14/2021	0.092	<0.025	<0.025	<0.025	0.042 (J)	0.084	0.035 (J)	0.0033 (J)
3/1/2022	0.088 (J)				0.028 (J)	0.074		
3/2/2022		0.00064 (J)	<0.025				0.022 (J)	0.0026
3/3/2022				0.0017 (J)				
9/20/2022	<0.025					0.043		
9/21/2022		<0.025	<0.025	<0.025	0.018 (J)		0.02 (J)	<0.025
3/1/2023		<0.025	<0.025	<0.025				<0.025
3/2/2023	0.0919				0.0237 (J)	0.0361 (J)	0.0217 (J)	
9/12/2023		<0.025			0.0301			
9/13/2023				<0.025			0.027	0.00978 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/14/2023	0.087		<0.025			0.0551		
3/19/2024			<0.025					
3/20/2024		<0.025		<0.025				<0.025
3/21/2024	0.08				0.0329	0.0458	0.0135	
9/10/2024				<0.025				<0.025
9/11/2024	0.0667	<0.025	<0.025		0.029		0.0147	
9/12/2024						0.055		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0102 (J)	0.0112 (J)		<0.025				
10/25/2016					0.007 (J)			
11/30/2016	0.0106 (J)	<0.025		<0.025	0.0086 (J)			
2/15/2017	0.0115 (J)	0.0105 (J)		<0.025	0.0149 (J)			
5/31/2017	0.011 (J)	0.0106 (J)			0.019 (J)			
6/1/2017				<0.025				
6/2/2017			<0.025					
8/2/2017			<0.025					
8/15/2017	0.0123 (J)				0.016 (J)			
8/16/2017		0.0145 (J)						
8/17/2017			<0.025	<0.025				
4/4/2018			0.0015 (J)					
5/8/2018			0.0014 (J)					
6/19/2018	0.012 (J)	0.044 (J)	0.0016 (J)		0.021 (J)			
6/20/2018				<0.025				
9/25/2018	0.011 (J)	0.041 (J)						
9/26/2018			0.0018 (J)	<0.025	0.02 (J)			
11/6/2018		0.047 (J)			0.017 (J)			
11/7/2018	0.013 (J)		<0.025	<0.025				
8/26/2019		0.059						
8/27/2019	0.012 (J)		0.002 (J)	<0.025	0.023 (J)			
10/15/2019	0.012 (J)	0.056 (J)	0.0016 (J)					
10/16/2019				<0.025	0.024 (J)			
11/7/2019						0.0055 (J)	0.015 (J)	0.026 (J)
11/18/2019						<0.1 (O)		
11/19/2019							0.02 (J)	0.023 (J)
11/21/2019		0.052						
12/4/2019							0.016 (J)	0.019 (J)
12/5/2019						0.0042 (J)		
12/17/2019							0.018 (J)	
12/18/2019						0.0045 (J)		0.02 (J)
1/8/2020							0.022 (J)	0.024 (J)
1/9/2020						0.0041 (J)		
1/21/2020						<0.15 (O)	0.018 (J)	0.022 (J)
2/4/2020						<0.3 (O)	0.02 (J)	0.024 (J)
2/13/2020						0.004 (J)	0.018 (J)	0.021 (J)
3/27/2020	<0.025	0.052	<0.025	<0.025	0.033 (J)	<0.025	0.018 (J)	0.024 (J)
10/12/2020	0.011 (J)					<0.025		
10/13/2020		0.046 (J)	<0.025	<0.025	0.028 (J)		0.022 (J)	0.025 (J)
3/2/2021	<0.025	0.046 (J)	<0.025					
3/3/2021				<0.025	<0.025	<0.025	0.019 (J)	0.018 (J)
7/1/2021		<0.025						
9/13/2021	0.01 (J)	0.047						
9/14/2021			<0.025	<0.025	0.035 (J)	<0.025	0.011 (J)	0.02 (J)
3/1/2022							<0.025	0.02 (J)
3/2/2022			0.0017 (J)			<0.025		
3/3/2022	<0.025	0.037 (J)		0.00061 (J)	0.02 (J)			
9/20/2022						<0.025	0.014 (J)	0.029
9/21/2022	0.0075 (J)	0.028	<0.025	<0.025	0.023 (J)			
2/28/2023	0.0104 (J)				0.0257 (J)	0.00327 (J)	0.019 (J)	0.0221 (J)
3/1/2023				<0.025				
3/2/2023		0.0218 (J)	<0.025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.0115	0.0222	<0.025	<0.025				
9/13/2023					0.037		0.0415	0.0493
9/14/2023						0.00366 (J)		
3/19/2024	0.0104				0.0223	<0.025	0.0201 (J)	
3/20/2024		0.0208	<0.025					
3/21/2024				<0.025				0.0206 (J)
9/10/2024	0.00967 (J)				0.0211			
9/11/2024		0.0204	<0.025	<0.025		<0.025	0.02	0.0201

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.0002						
8/31/2016					<0.0002	<0.0002	<0.0002	
11/30/2016		<0.0002			<0.0002	<0.0002	<0.0002	
2/15/2017		<0.0002						
2/16/2017					<0.0002	<0.0002	<0.0002	
5/31/2017			<0.0002					<0.0002
6/1/2017		<0.0002		<0.0002				
6/2/2017					4.2E-05 (J)	<0.0002	<0.0002	
8/2/2017			<0.0002	<0.0002				<0.0002
8/15/2017								<0.0002
8/16/2017		<0.0002	<0.0002					
8/17/2017				<0.0002	<0.0002	<0.0002	<0.0002	
4/4/2018				<0.0002				<0.0002
4/5/2018			<0.0002					
5/8/2018				<0.0002				<0.0002
5/9/2018			<0.0002					
6/19/2018		<0.0002	<0.0002					<0.0002
6/20/2018				<0.0002	<0.0002	<0.0002		
6/21/2018							<0.0002	
9/25/2018								<0.0002
9/26/2018		<0.0002	<0.0002					
9/27/2018				<0.0002	<0.0002	<0.0002	<0.0002	
11/6/2018				0.00071			0.00067	0.0007
11/7/2018		<0.0002	<0.0002		<0.0002	<0.0002		
3/6/2019						<0.0002		
8/27/2019		<0.0002		<0.0002				
8/28/2019			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
10/15/2019				<0.0002				
10/16/2019		<0.0002	<0.0002		<0.0002			<0.0002
10/17/2019						<0.0002	<0.0002	
3/26/2020		<0.0002						
3/27/2020			<0.0002					<0.0002
3/28/2020				<0.0002	<0.0002	<0.0002	<0.0002	
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00016 (J)	<0.0002	<0.0002
3/1/2022	<0.0002				<0.0002	<0.0002		
3/2/2022		<0.0002	<0.0002				<0.0002	<0.0002
3/3/2022				<0.0002				
9/20/2022	<0.0002					<0.0002		
9/21/2022		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/1/2023		<0.0002	<0.0002	<0.0002				<0.0002
3/2/2023	<0.0002				<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002			
9/13/2023				<0.0002			<0.0002	<0.0002
9/14/2023	<0.0002		<0.0002			<0.0002		
3/19/2024			<0.0002					
3/20/2024		<0.0002		<0.0002				<0.0002
3/21/2024	<0.0002				<0.0002	<0.0002	<0.0002	
9/10/2024				<0.0002				<0.0002
9/11/2024	<0.0002	<0.0002	<0.0002		<0.0002		<0.0002	
9/12/2024						<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0002	<0.0002		<0.0002				
10/25/2016					<0.0002			
11/30/2016	<0.0002	<0.0002		<0.0002	<0.0002			
2/15/2017	<0.0002	<0.0002		<0.0002	<0.0002			
5/31/2017	<0.0002	<0.0002			<0.0002			
6/1/2017				<0.0002				
6/2/2017			<0.0002					
8/2/2017			<0.0002					
8/15/2017	<0.0002				<0.0002			
8/16/2017		<0.0002						
8/17/2017			<0.0002	<0.0002				
4/4/2018			<0.0002					
5/8/2018			<0.0002					
6/19/2018	<0.0002	<0.0002	<0.0002		<0.0002			
6/20/2018				<0.0002				
9/25/2018	<0.0002	<0.0002						
9/26/2018			<0.0002	<0.0002	<0.0002			
11/6/2018		0.00066			0.00064			
11/7/2018	<0.0002		<0.0002	<0.0002				
8/26/2019		<0.0002						
8/27/2019	<0.0002		<0.0002	<0.0002	<0.0002			
10/15/2019	<0.0002	<0.0002	<0.0002					
10/16/2019				<0.0002	<0.0002			
11/7/2019						<0.0002	<0.0002	<0.0002
11/18/2019						<0.0002		
11/19/2019							<0.0002	<0.0002
12/4/2019							<0.0002	<0.0002
12/5/2019						<0.0002		
12/17/2019							<0.0002	
12/18/2019						<0.0002		<0.0002
1/8/2020							<0.0002	<0.0002
1/9/2020						<0.0002		
1/21/2020						<0.0002	<0.0002	<0.0002
2/4/2020						<0.0002	<0.0002	<0.0002
2/13/2020						<0.0002	<0.0002	<0.0002
3/27/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/13/2021	<0.0002	<0.0002						
9/14/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2022							<0.0002	<0.0002
3/2/2022			<0.0002			<0.0002		
3/3/2022	<0.0002	<0.0002		<0.0002	<0.0002			
9/20/2022						<0.0002	<0.0002	<0.0002
9/21/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/28/2023	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
3/1/2023				<0.0002				
3/2/2023		<0.0002	<0.0002					
9/12/2023	<0.0002	<0.0002	<0.0002	<0.0002				
9/13/2023					<0.0002		<0.0002	<0.0002
9/14/2023						<0.0002		
3/19/2024	<0.0002				<0.0002	<0.0002	8.7E-05 (J)	
3/20/2024		<0.0002	<0.0002					
3/21/2024				<0.0002				0.000162 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.0002				<0.0002			
9/11/2024		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.01						
8/31/2016					<0.01	<0.01	<0.01	
11/30/2016		<0.01			<0.01	<0.01	<0.01	
2/15/2017		<0.01						
2/16/2017					<0.01	<0.01	<0.01	
5/31/2017			<0.01					<0.01
6/1/2017		<0.01		<0.01				
6/2/2017					<0.01	<0.01	<0.01	
8/2/2017			<0.01	<0.01				<0.01
8/15/2017								<0.01
8/16/2017		<0.01	<0.01					
8/17/2017				<0.01	0.0012 (J)	0.0025 (J)	<0.01	
4/4/2018				<0.01				<0.01
4/5/2018			<0.01					
5/8/2018				<0.01				<0.01
5/9/2018			<0.01					
6/19/2018		<0.01	<0.01					<0.01
6/20/2018				<0.01	<0.01	<0.01		
6/21/2018							<0.01	
9/25/2018								<0.01
9/26/2018		<0.01	<0.01					
9/27/2018				<0.01	<0.01	<0.01	<0.01	
11/6/2018				<0.01			<0.01	<0.01
11/7/2018		<0.01	<0.01		<0.01	0.0024 (J)		
3/6/2019						<0.01		
8/27/2019		<0.01		<0.01				
8/28/2019			<0.01		<0.01	0.0017 (J)	<0.01	<0.01
10/15/2019				<0.01				
10/16/2019		<0.01	<0.01		<0.01			<0.01
10/17/2019						0.0017 (J)	<0.01	
3/26/2020		<0.01						
3/27/2020			<0.01					<0.01
3/28/2020				<0.01	<0.01	<0.01	<0.01	
9/14/2021	<0.01	<0.01	0.0008 (J)	<0.01	0.0099 (J)	<0.01	<0.01	<0.01
3/1/2022	<0.01				<0.01	<0.01		
3/2/2022		<0.01	<0.01				<0.01	<0.01
3/3/2022				0.00015 (J)				
9/20/2022	<0.01					0.0013 (J)		
9/21/2022		<0.01	<0.01	<0.01	0.00095 (J)		0.00095 (J)	<0.01
3/1/2023		0.000258 (J)	<0.01	<0.01				<0.01
3/2/2023	0.000245 (J)				0.000852 (J)	0.00131 (J)	0.000963 (J)	
9/12/2023		<0.01			0.000809 (J)			
9/13/2023				<0.01			0.000847 (J)	<0.01
9/14/2023	<0.01		<0.01			0.000839 (J)		
3/19/2024			0.000259 (J)					
3/20/2024		<0.01		<0.01				<0.01
3/21/2024	<0.01				0.000936 (J)	0.000983 (J)	0.00146 (J)	
9/10/2024				<0.01				<0.01
9/11/2024	0.000217 (J)	<0.01	<0.01		0.00113		0.000949 (J)	
9/12/2024						0.000895 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01	<0.01		<0.01				
10/25/2016					<0.01			
11/30/2016	<0.01	<0.01		<0.01	<0.01			
2/15/2017	<0.01	<0.01		<0.01	<0.01			
5/31/2017	<0.01	<0.01			<0.01			
6/1/2017				<0.01				
6/2/2017			<0.01					
8/2/2017			<0.01					
8/15/2017	<0.01				<0.01			
8/16/2017		<0.01						
8/17/2017			<0.01	<0.01				
4/4/2018			<0.01					
5/8/2018			0.002 (J)					
6/19/2018	<0.01	<0.01	<0.01		<0.01			
6/20/2018				<0.01				
9/25/2018	<0.01	<0.01						
9/26/2018			<0.01	<0.01	<0.01			
11/6/2018		<0.01			<0.01			
11/7/2018	<0.01		<0.01	<0.01				
8/26/2019		<0.01						
8/27/2019	<0.01		<0.01	<0.01	<0.01			
10/15/2019	<0.01	<0.01	<0.01					
10/16/2019				<0.01	<0.01			
11/7/2019						<0.01	<0.01	<0.01
11/18/2019						<0.01		
11/19/2019							<0.01	<0.01
12/4/2019							<0.01	<0.01
12/5/2019						<0.01		
12/17/2019							<0.01	
12/18/2019						<0.01		<0.01
1/8/2020							<0.01	<0.01
1/9/2020						<0.01		
1/21/2020						<0.01	<0.01	<0.01
2/4/2020						<0.01	<0.01	<0.01
2/13/2020						<0.01	<0.01	<0.01
3/27/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/13/2021	<0.01	<0.01						
9/14/2021			0.0009 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
3/1/2022							<0.01	<0.01
3/2/2022			0.00078 (J)			<0.01		
3/3/2022	<0.01	<0.01		0.00021 (J)	<0.01			
9/20/2022						<0.01	<0.01	<0.01
9/21/2022	<0.01	<0.01	0.00094 (J)	<0.01	<0.01			
2/28/2023	0.000362 (J)				0.000313 (J)	<0.01	<0.01	<0.01
3/1/2023				0.000517 (J)				
3/2/2023		<0.01	0.00133 (J)					
9/12/2023	0.000423 (J)	<0.01	0.00141	0.00023 (J)				
9/13/2023					0.000217 (J)		<0.01	<0.01
9/14/2023						<0.01		
3/19/2024	0.00055 (J)				0.00102 (J)	<0.01	<0.01	
3/20/2024		<0.01	0.000738 (J)					
3/21/2024				<0.01				<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	0.000276 (J)				<0.01			
9/11/2024		<0.01	0.00123	<0.01		<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		5.66						
8/31/2016					6.93	7.21	6.66	
11/30/2016		5.36			6.77	7.23	6.69	
2/15/2017		5.25						
2/16/2017					6.89	7.27	6.72	
5/31/2017			5.06					5.29
6/1/2017		5.59		5.68				
6/2/2017					6.83	7.18	6.53	
8/2/2017			5	5.2				5.19
8/15/2017								5.19
8/16/2017		5.58	4.98					
8/17/2017				5.31	6.76	7.15	6.28	
4/4/2018				4.74				5.19
4/5/2018			5.02					
5/8/2018				4.78				5.3
5/9/2018			4.96					
6/19/2018		5.51	5.02					5.15
6/20/2018				4.79	6.83	7.19		
6/21/2018							6.45	
9/25/2018								5.13
9/26/2018		5.32	5.06					
9/27/2018				5.14	6.64	7.21	6.48	
11/6/2018				4.9			6.18	5.08
11/7/2018		5.72	5.03		6.6	6.91		
3/24/2019					6.61	6.98	6.39	
3/25/2019		5.75	5.08	4.93				5.05
8/27/2019		5.58		5.05				
8/28/2019			4.99		6.69	6.87	6.35	4.87
10/15/2019				4.89				
10/16/2019		5.72	4.98		6.64			5.05
10/17/2019						6.86	6.4	
11/19/2019			5.11					
11/20/2019		5.77		5.03	6.58		6.27	
3/26/2020		5.45						
3/27/2020			5.12					5.09
3/28/2020	7.11			5.27	6.6	6.8	6.35	
6/16/2020	7.22					6.87	6.33	
10/12/2020								5
10/13/2020		5.69	5.03	5.25				
10/14/2020						6.93	6.32	
10/15/2020	7.08				6.52			
1/4/2021					6.66			
3/3/2021		5.81	5.06					5.37
3/4/2021	7.21			5.31	6.52	6.94	6.33	
9/14/2021	7.11	5.13	5.04	5.09	6.67	6.94	6.28	5.5
3/1/2022	7.08				6.87	7.24		
3/2/2022		5.32	5.16				6.41	5.11
3/3/2022				4.98				
6/28/2022	7.09					7.28		
9/20/2022	7.07					7.29		
9/21/2022		4.95	5.14	5.34	6.93		6.27	4.97
3/1/2023		4.91	5.1 (D)	4.93				4.78

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/2/2023	7.12				6.55	7.38	6.28	
9/12/2023		4.54			6.81			
9/13/2023				5.29			6.53	4.92
9/14/2023	6.95		5.02			7.3		
3/19/2024			4.62					
3/20/2024		5.04		4.41				4.18
3/21/2024	7.21				6.66	7.02	6.31	
9/10/2024				5.1				5.19
9/11/2024	7.18	5.01	5.43		6.94		6.53	
9/12/2024						7.2		

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	6.49	7.04		5.18				
10/25/2016					6.95			
11/30/2016	6.5	7.13		4.96	6.95			
2/15/2017	6.51	7.02		5.13	6.85			
5/31/2017	6.45	7			6.96			
6/1/2017				4.99				
6/2/2017			5.31					
8/2/2017			5.05					
8/15/2017	6.41				6.99			
8/16/2017		6.88						
8/17/2017			5.52	4.68				
4/4/2018			5.45					
5/8/2018			5.54					
6/19/2018	6.32	6.78	5.6		6.91			
6/20/2018				4.77				
9/25/2018	6.31	6.75						
9/26/2018			5.17	4.65	6.8			
11/6/2018		6.92			5.99			
11/7/2018	6.3		5.47	4.99				
3/24/2019	6.4	6.59	5.4		6.62			
3/25/2019			5.4	5.13				
8/26/2019		6.62						
8/27/2019	6.24		5.35	4.88	6.23			
10/15/2019	6.19	6.58	5.32					
10/16/2019				4.89	6.54			
11/7/2019						4.25	5.21	3.79
11/18/2019						4.12		
11/19/2019							5.15	3.78
11/21/2019		6.67			6.44			
12/4/2019							5.28	3.87
12/5/2019						4.17		
12/17/2019							4.96	
12/18/2019						4.2		3.76
1/8/2020							5.04	3.77
1/9/2020						4.19		
1/21/2020						4.28	5.1	3.73
2/4/2020						4.26	5.15	3.72
2/13/2020						4.2	5.07	3.75
3/27/2020	6.33	6.59	5.3	5.12	6.93	4.34	5.14	3.81
10/12/2020	6.35					4.29		
10/13/2020		6.56	5.02	5.17	6.34		5.04	3.72
3/2/2021	6.34	6.55	5.16					
3/3/2021				5.71	6.58	4.37	5.1	3.76
7/1/2021		6.64						
9/13/2021	6.24	6.3						
9/14/2021			5.39	4.69	6.77	4.28	5.31	3.72
3/1/2022							5.38	3.69
3/2/2022			5.37			4.33		
3/3/2022	6.51	6.49		4.88	6.26			
9/20/2022						4.47	5.14	3.63
9/21/2022	6.3	6.61	5.23	4.91	6.72			
2/28/2023	6.28				6.62	4.42	5.08	3.7 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023				4.76				
3/2/2023		6.54 (D)	4.45					
9/12/2023	6.43	6.68	4.4	4.45				
9/13/2023					6.55		5.05	3.67
9/14/2023						4.17		
3/19/2024	6.55				6.38	4.42	4.97	
3/20/2024		6.72	5.23					
3/21/2024				5.1				3.67
9/10/2024	6.44				6.11			
9/11/2024		6.66	4.99	5.41		4.04	4.61	3.58

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.005						
8/31/2016					0.002 (J)	0.0015 (J)	0.0021 (J)	
11/30/2016		0.0011 (J)			0.0023 (J)	0.0054 (J)	<0.005	
2/15/2017		<0.005						
2/16/2017					0.002 (J)	0.0022 (J)	0.0025 (J)	
5/31/2017			<0.005					<0.005
6/1/2017		<0.005		<0.005				
6/2/2017					<0.005	<0.005	<0.005	
8/2/2017			<0.005	<0.005				<0.005
8/15/2017								<0.005
8/16/2017		<0.005	<0.005					
8/17/2017				<0.005	<0.005	0.002 (J)	0.0033 (J)	
4/4/2018				<0.005				<0.005
4/5/2018			<0.005					
5/8/2018				<0.005				<0.005
5/9/2018			<0.005					
6/19/2018		<0.005	<0.005					<0.005
6/20/2018				<0.005	<0.005	<0.005		
6/21/2018							<0.005	
9/25/2018								<0.005
9/26/2018		<0.005	<0.005					
9/27/2018				<0.005	<0.005	<0.005	0.0023 (J)	
11/6/2018				0.0025 (J)			0.0048 (J)	<0.005
11/7/2018		<0.005	<0.005		<0.005	0.0075 (J)		
3/6/2019						0.0024 (J)		
3/25/2019								<0.005
8/27/2019		<0.005		<0.005				
8/28/2019			<0.005		<0.005	0.0014 (J)	0.0019 (J)	<0.005
10/15/2019				<0.005				
10/16/2019		<0.005	<0.005		<0.005			<0.005
10/17/2019						0.0066 (J)	0.0049 (J)	
3/26/2020		<0.005						
3/27/2020			<0.005					<0.005
3/28/2020				<0.005	<0.005	<0.005	<0.005	
10/12/2020								<0.005
10/13/2020		<0.005	<0.005	<0.005				
10/14/2020						<0.005	<0.005	
10/15/2020	<0.025				0.0028 (J)			
1/4/2021					<0.005			
3/3/2021		<0.005	<0.005					<0.005
3/4/2021	<0.025			0.00038 (J)	<0.005	<0.005	<0.005	
9/14/2021	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/1/2022	<0.025				<0.005	<0.005		
3/2/2022		<0.005	<0.005				<0.005	0.00022 (J)
3/3/2022				0.00012 (J)				
9/20/2022	<0.025					<0.005		
9/21/2022		<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
3/1/2023		<0.005	<0.005	<0.005				<0.005
3/2/2023	0.00205 (J)				<0.005	<0.005	0.00238 (J)	
9/12/2023		<0.005			<0.005			
9/13/2023				<0.005			<0.005	<0.005
9/14/2023	<0.025		<0.005			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
3/19/2024			<0.005					
3/20/2024		<0.005		<0.005				<0.005
3/21/2024	<0.025				<0.005	<0.005	<0.005	
9/10/2024				<0.005				<0.005
9/11/2024	0.00176 (J)	<0.005	<0.005		<0.005		<0.005	
9/12/2024						<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0011 (J)	<0.005		<0.005				
10/25/2016					0.003 (J)			
11/30/2016	0.0023 (J)	<0.005		0.0011 (J)	0.0087 (J)			
2/15/2017	0.0021 (J)	0.0014 (J)		<0.005	0.0067 (J)			
5/31/2017	<0.005	<0.005			0.0018 (J)			
6/1/2017				<0.005				
6/2/2017			<0.005					
8/2/2017			<0.005					
8/15/2017	0.0021 (J)				0.0025 (J)			
8/16/2017		0.0018 (J)						
8/17/2017			<0.005	<0.005				
4/4/2018			<0.005					
5/8/2018			0.0016 (J)					
6/19/2018	0.0017 (J)	<0.005	0.0022 (J)		<0.005			
6/20/2018				<0.005				
9/25/2018	0.002 (J)	0.0019 (J)						
9/26/2018			0.0015 (J)	<0.005	0.0016 (J)			
11/6/2018		0.0057 (J)			<0.005			
11/7/2018	<0.005		<0.005	<0.005				
8/26/2019		0.0025 (J)						
8/27/2019	0.0019 (J)		0.0018 (J)	<0.005	0.0018 (J)			
10/15/2019	<0.005	0.003 (J)	<0.005					
10/16/2019				<0.005	<0.005			
11/7/2019						0.036	0.063	0.12
11/18/2019						<0.1		
11/19/2019							0.039 (J)	0.047 (J)
12/4/2019							0.12	0.11
12/5/2019						0.032		
12/17/2019							0.031 (J)	
12/18/2019						0.01		0.032 (J)
1/8/2020							0.066	0.044 (J)
1/9/2020						0.01		
1/21/2020						0.023 (J)	0.13	0.089
2/4/2020						0.017 (J)	0.065 (J)	0.049 (J)
2/13/2020						0.015	0.15	0.11
3/27/2020	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	0.013	0.012
10/12/2020	<0.005					<0.005		
10/13/2020		<0.005	<0.005	<0.005	<0.005		0.0076 (J)	0.0056 (J)
3/2/2021	<0.005	<0.005	<0.005					
3/3/2021				<0.005	<0.005	0.0012 (J)	0.013 (J)	0.0094 (J)
9/13/2021	<0.005	<0.005						
9/14/2021			<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0018 (J)
3/1/2022							<0.04	0.0058 (J)
3/2/2022			0.00028 (J)			<0.005		
3/3/2022	<0.005	<0.005		<0.005	<0.005			
9/20/2022						<0.005	0.0046 (J)	0.0027 (J)
9/21/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
2/28/2023	0.00157 (J)				0.00184 (J)	0.00583 (J)	0.034 (J)	0.0225 (J)
3/1/2023				<0.005				
3/2/2023		<0.005	<0.005					
9/12/2023	<0.005	<0.005	<0.005	<0.005				
9/13/2023					<0.005		0.0237	0.0182

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023						0.00948		
3/19/2024	<0.005				<0.005	0.00456 (J)	0.0492	
3/20/2024		<0.005	<0.005					
3/21/2024				<0.005				0.0249 (J)
9/10/2024	<0.005				<0.005			
9/11/2024		<0.005	<0.005	<0.005		0.0044 (J)	0.0469	0.0212

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		17						
8/31/2016					37	21	290	
11/30/2016		33			63	19	240	
2/15/2017		83						
2/16/2017					90	22	220	
5/31/2017			46					40
6/1/2017		51		42				
6/2/2017					210	28	500	
8/2/2017			43	120				34
8/15/2017								24
8/16/2017		36	41					
8/17/2017				110	80	69	510	
4/4/2018				70.6				33.9
4/5/2018			33.4					
5/8/2018				61.4				35.7
5/9/2018			36					
6/19/2018		50.3	35.5					23.7
6/20/2018				25.3	46 (J)	33		
6/21/2018							481	
9/25/2018								25.6
9/26/2018		54.1	39.6					
9/27/2018				63.4	58.5 (J)	29.4	777	
11/6/2018				136			926	25.2
11/7/2018		45.6	35.8		41.3 (J)	734		
3/6/2019						1220 (J)		
3/24/2019					131	413	1070	
3/25/2019		43	34.2	137				24.9
10/15/2019				105				
10/16/2019		31.9	24.4		252			17.4
10/17/2019						507	1230	
11/20/2019					132		1550	
3/26/2020		36.2						
3/27/2020			28.6					23.4
3/28/2020				86.6	63.8	701	1090	
4/23/2020	936					552		
6/16/2020	970					663	961	
10/12/2020								19.3
10/13/2020		32.3	27.6	92.3				
10/14/2020						531 (D)	938	
10/15/2020	1060				147			
1/4/2021					262			
3/3/2021		33.8	27.6					19.9
3/4/2021	1060			99.1	82.2	596	982	
9/14/2021	971	34.2	30.4	96.2	459	490	819	33.1
3/1/2022	755				143	440		
3/2/2022		30.8	25.7				702	19.5
3/3/2022				50.6				
6/28/2022	553					213		
9/20/2022	820					320		
9/21/2022		39	29	52	100		660	23
3/1/2023		45.3	27.4	44.2				21.4
3/2/2023	859				84.2	157	640	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/12/2023		47.5			139			
9/13/2023				27.1			620	42
9/14/2023	767		28.8			263		
3/19/2024			28					
3/20/2024		45.4		73.7				34.5
3/21/2024	799				189	189	360	
9/10/2024				103				24.3
9/11/2024	752	42.1	26.2		148		296	
9/12/2024						271		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	4.3	6.4		24				
10/25/2016					84			
11/30/2016	7.6	4.5		26	52			
2/15/2017	3	37		30	190			
5/31/2017	2.5	61			260			
6/1/2017				24				
6/2/2017			13					
8/2/2017			14					
8/15/2017	3.2				210			
8/16/2017		130						
8/17/2017			14	26				
4/4/2018			13.4					
5/8/2018			14.8					
6/19/2018	1.6	498	15.5		218			
6/20/2018				31.2				
9/25/2018	1	790						
9/26/2018			23	36.8	333 (D)			
11/6/2018		875			182			
11/7/2018	0.41 (J)		22.2	35				
3/24/2019	1.5	1170			413			
3/25/2019			22.4	40.1				
10/15/2019	0.54 (J)	<1	17.9					
10/16/2019				28.5	453			
11/7/2019						379	832	1010
11/18/2019						737		
11/19/2019							795	1140
11/21/2019		1070			428			
12/4/2019							810	1020
12/5/2019						351		
12/17/2019							535	
12/18/2019						274		444 (J)
1/8/2020							603	747
1/9/2020						254		
1/21/2020						254	611	798
2/4/2020						432	599	1120
2/13/2020						300	761	833
3/27/2020	<5	899	14.6	31.2	504	219	836	700
10/12/2020	<5					191		
10/13/2020		695	7.6	26.8	378		609	638
10/14/2020		682						
3/2/2021	1.2	677	8					
3/3/2021				30.5	420	171	708	743
7/1/2021		693						
9/13/2021	<5	680						
9/14/2021			16.7	24.4	460	134	995	659
3/1/2022							158	543
3/2/2022			16			186		
3/3/2022	<5	754		20.4	324			
9/20/2022						160	740	750
9/21/2022	<5	270	6.3	24	330			
2/28/2023	1.33				334	186	820	950
3/1/2023				25.8				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023		252	8.12					
9/12/2023	1.18	160	6.48	25.2				
9/13/2023					300		1300	832
9/14/2023						165		
3/19/2024	1.7				312	167	810	
3/20/2024		207	12.3					
3/21/2024				29.4				1190
9/10/2024	0.462				323			
9/11/2024		180	5.75	23.2		149	781	852

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		86						
8/31/2016					3620	4160	5100	
11/30/2016		131			4030	3950	4680	
2/15/2017		212						
2/16/2017					4080	4600	5080	
5/31/2017			123					257
6/1/2017		103		97				
6/2/2017					5560	4470	8000	
8/2/2017			136	538				183
8/15/2017								90
8/16/2017		65	124					
8/17/2017				445	4620	5450	8320	
4/4/2018				365				197
4/5/2018			128					
5/8/2018				304				225
5/9/2018			127					
6/19/2018		142	143					112
6/20/2018				114	3370	4940		
6/21/2018							7500	
9/25/2018								137
9/26/2018		133	132					
9/27/2018				255	2360	4480	10200	
11/6/2018				388			11000	89
11/7/2018		121	134		2230	15100		
3/6/2019						19000		
3/24/2019					1450	13700	13700	
3/25/2019		116	111	327				74
10/15/2019				237				
10/16/2019		104	96		2860			82
10/17/2019						16100	13200	
11/20/2019					2640		16700	
3/26/2020		114						
3/27/2020			119					87
3/28/2020				284	1470	18800	18300	
6/16/2020	20100					17800	17900	
10/12/2020								94
10/13/2020		113	118	<25				
10/14/2020						15200	18400	
10/15/2020	19300				5100			
1/4/2021					7750			
3/3/2021		99	84					66
3/4/2021	19000			285	1700	14200	17100	
9/14/2021	16400	66	76	193	8020	11800	13400	191
3/1/2022	15600				3780	9040		
3/2/2022		97	94				12600	124
3/3/2022				146				
6/28/2022	15400					6140		
9/20/2022	13000					3900		
9/21/2022		100	90	180	2100		9400	110
3/1/2023		78	73	142				67
3/2/2023	12300				1710	3120	10500	
9/12/2023		80			2940			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
9/13/2023				51			7440	274
9/14/2023	10600		76			4240		
3/19/2024			50					
3/20/2024		84		255				137
3/21/2024	9680				3320	3820	6050	
9/10/2024				316				79
9/11/2024	8970	70	64		3020		4640	
9/12/2024						5340		

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	1910	1310		99				
10/25/2016					2900			
11/30/2016	1910	1050		111	3970			
2/15/2017	1870	1440		170	3820			
5/31/2017	1920	1740			5050			
6/1/2017				98				
6/2/2017			69					
8/2/2017			35					
8/15/2017	1840				4820			
8/16/2017		3010						
8/17/2017			51	84				
4/4/2018			90					
5/8/2018			89					
6/19/2018	1820	8630	110		5640			
6/20/2018				123				
9/25/2018	1760	10700						
9/26/2018			124	117	6770 (D)			
11/6/2018		11100			4160			
11/7/2018	1800		125	120				
3/24/2019	1770	14200			6840			
3/25/2019			98	101				
10/15/2019	1730	15400	107					
10/16/2019				95	7740			
11/7/2019						4140	10900	13500
11/18/2019						4030		
11/19/2019							10000	13300
11/21/2019		15800			7720			
12/4/2019							11000	13200
12/5/2019						3840		
12/17/2019							9860	
12/18/2019						3880		12500
1/8/2020							9760	12300
1/9/2020						3520		
1/21/2020						3280	10100	12000
2/4/2020						3220	10600	12300
2/13/2020						3580	10900	12400
3/27/2020	1970	16400	110	110	10200	3090	14300	14600
10/12/2020	1560					2920		
10/13/2020		15600	63	115	8750		6600	13900
3/2/2021	1430	12000	40					
3/3/2021				122	8830	2620	11000	11400
7/1/2021		11200						
9/13/2021	1450	11400						
9/14/2021			96	<25	8820	2190	14600	10300
3/1/2022							4050	10500
3/2/2022			103			3100		
3/3/2022	1400	11500		104	8120			
9/20/2022						2000	10000	8600
9/21/2022	1300	7400	38	78	6200			
2/28/2023	1290				6810	2090	10400	8720
3/1/2023				56				
3/2/2023		3280	35					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	1230	2720	20	42				
9/13/2023					6310		15500	10300
9/14/2023						2040		
3/19/2024	1210				5920	1960	9800	
3/20/2024		2480	65					
3/21/2024				51				7330
9/10/2024	1230				5490			
9/11/2024		2480	28	54		1530	9180	8630

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-01 (bg)	MCM-02 (bg)	MCM-04	MCM-05	MCM-06	MCM-07	MCM-11 (bg)
8/30/2016		<0.002						
8/31/2016					<0.002	<0.002	<0.002	
11/30/2016		<0.002			<0.002	<0.002	<0.002	
2/15/2017		<0.002						
2/16/2017					<0.002	<0.002	<0.002	
5/31/2017			<0.002					<0.002
6/1/2017		<0.002		<0.002				
6/2/2017					<0.002	<0.002	<0.002	
8/2/2017			<0.002	<0.002				<0.002
8/15/2017								<0.002
8/16/2017		<0.002	<0.002					
8/17/2017				<0.002	<0.002	<0.002	<0.002	
4/4/2018				<0.002				<0.002
4/5/2018			<0.002					
5/8/2018				<0.002				<0.002
5/9/2018			<0.002					
6/19/2018		<0.002	<0.002					<0.002
6/20/2018				<0.002	<0.002	<0.002		
6/21/2018							<0.002	
9/25/2018								<0.002
9/26/2018		<0.002	<0.002					
9/27/2018				<0.002	<0.002	<0.002	<0.002	
11/6/2018				<0.002			<0.002	<0.002
11/7/2018		<0.002	<0.002		<0.002	<0.002		
3/6/2019						<0.002		
8/27/2019		<0.002		<0.002				
8/28/2019			<0.002		<0.002	<0.002	<0.002	<0.002
10/15/2019				<0.002				
10/16/2019		<0.002	<0.002		<0.002			<0.002
10/17/2019						7.6E-05 (J)	<0.002	
3/26/2020		<0.002						
3/27/2020			<0.002					<0.002
3/28/2020				<0.002	<0.002	<0.002	<0.002	
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022	<0.002				<0.002	<0.002		
3/2/2022		<0.002	<0.002				<0.002	<0.002
3/3/2022				<0.002				
9/20/2022	<0.002					<0.002		
9/21/2022		<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
3/1/2023		<0.002	<0.002	<0.002				<0.002
3/2/2023	<0.002				<0.002	<0.002	<0.002	
9/12/2023		<0.002			<0.002			
9/13/2023				<0.002			<0.002	<0.002
9/14/2023	<0.002		<0.002			<0.002		
3/19/2024			<0.002					
3/20/2024		<0.002		<0.002				<0.002
3/21/2024	<0.002				<0.002	<0.002	<0.002	
9/10/2024				<0.002				<0.002
9/11/2024	<0.002	<0.002	<0.002		<0.002		<0.002	
9/12/2024						<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002	<0.002		<0.002				
10/25/2016					<0.002			
11/30/2016	<0.002	<0.002		<0.002	<0.002			
2/15/2017	<0.002	<0.002		<0.002	<0.002			
5/31/2017	<0.002	<0.002			<0.002			
6/1/2017				6E-05 (J)				
6/2/2017			<0.002					
8/2/2017			<0.002					
8/15/2017	<0.002				<0.002			
8/16/2017		<0.002						
8/17/2017			<0.002	7E-05 (J)				
4/4/2018			<0.002					
5/8/2018			<0.002					
6/19/2018	<0.002	<0.002	<0.002		<0.002			
6/20/2018				<0.002				
9/25/2018	<0.002	<0.002						
9/26/2018			<0.002	<0.002	<0.002			
11/6/2018		<0.002			<0.002			
11/7/2018	<0.002		<0.002	<0.002				
8/26/2019		<0.002						
8/27/2019	<0.002		<0.002	6.6E-05 (J)	<0.002			
10/15/2019	<0.002	<0.002	<0.002					
10/16/2019				<0.002	<0.002			
11/7/2019						<0.002	<0.002	<0.002
11/18/2019						<0.002		
11/19/2019							<0.002	<0.002
12/4/2019							<0.002	<0.002
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		<0.002
1/8/2020							<0.002	<0.002
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	<0.002
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.002	<0.002
3/27/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/13/2021	<0.002	<0.002						
9/14/2021			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022			<0.002			<0.002		
3/3/2022	<0.002	<0.002		6.6E-05 (J)	<0.002			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
2/28/2023	<0.002				<0.002	<0.002	<0.002	<0.002
3/1/2023				<0.002				
3/2/2023		<0.002	<0.002					
9/12/2023	<0.002	<0.002	<0.002	<0.002				
9/13/2023					<0.002		<0.002	<0.002
9/14/2023						<0.002		
3/19/2024	<0.002				<0.002	<0.002	<0.002	
3/20/2024		<0.002	<0.002					
3/21/2024				<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/25/2024 8:40 PM

Plant McManus Client: Southern Company Data: McManus AP

	MCM-12	MCM-14	MCM-15 (bg)	MCM-16 (bg)	MCM-17	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/10/2024	<0.002				<0.002			
9/11/2024		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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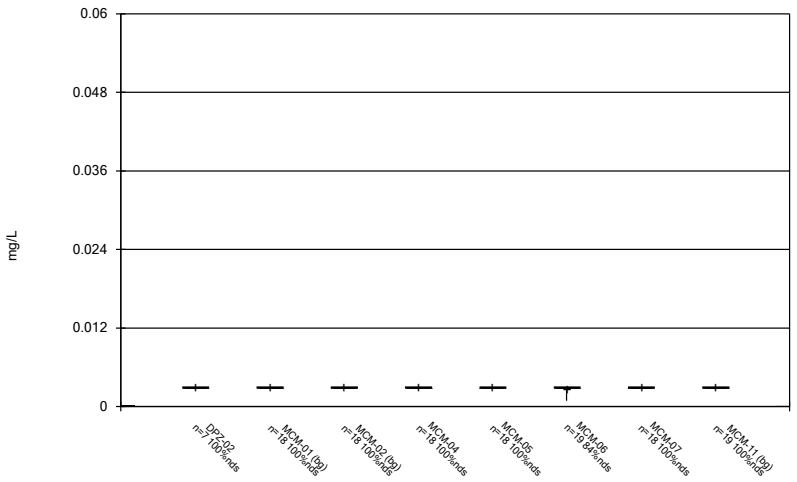
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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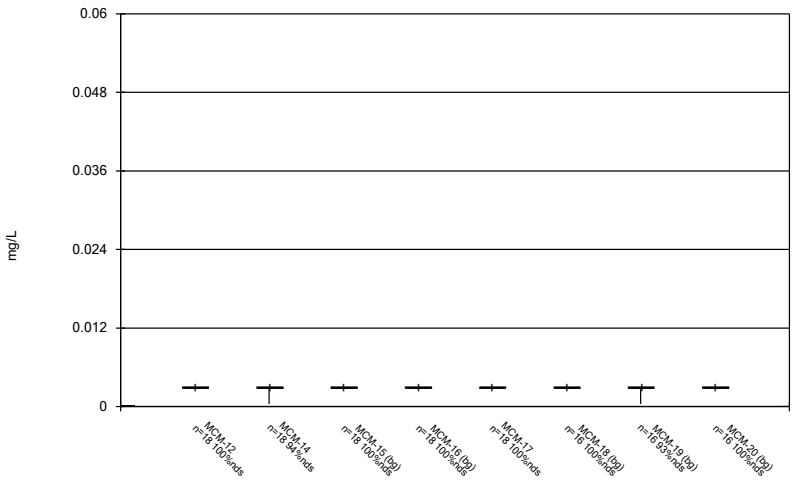
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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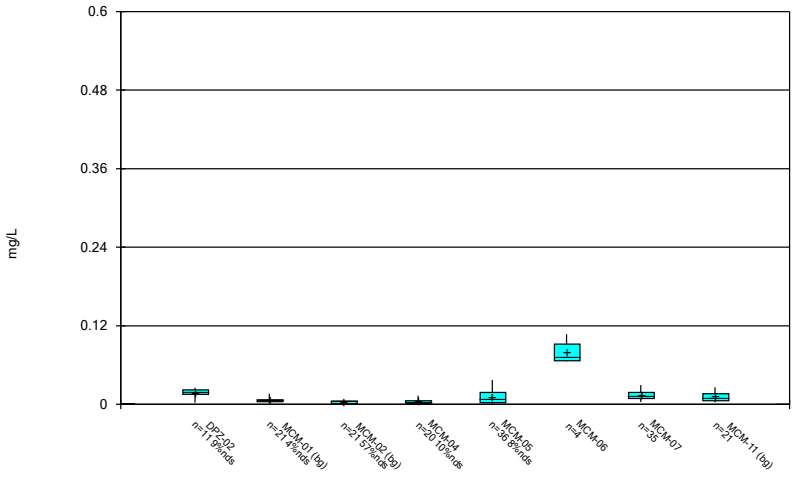
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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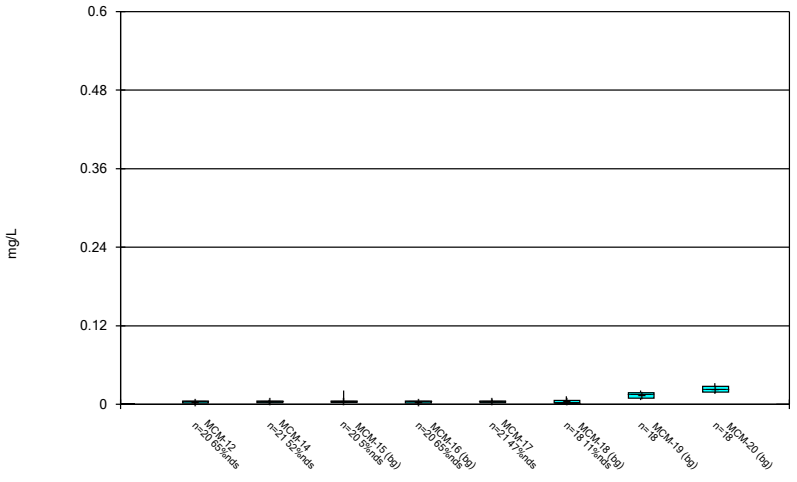
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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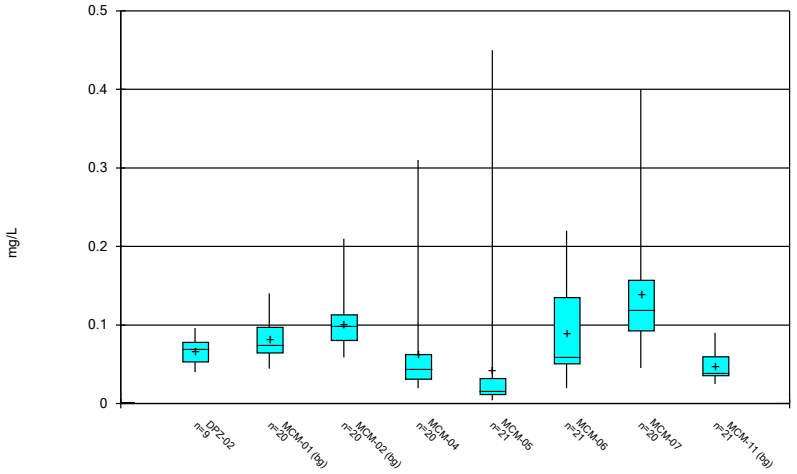
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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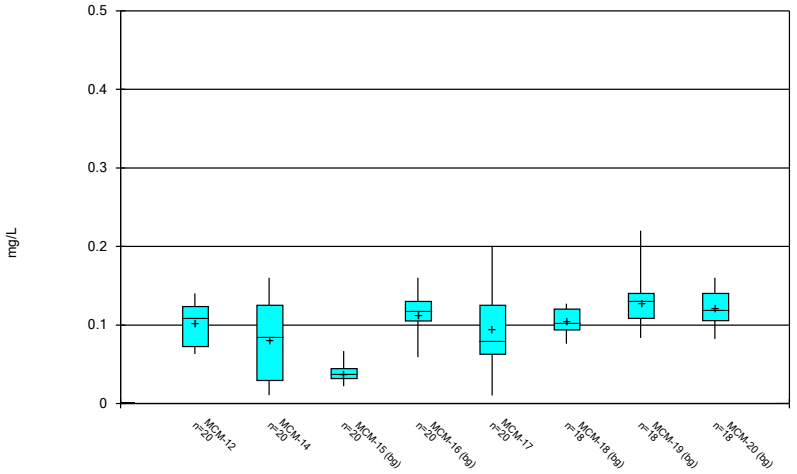
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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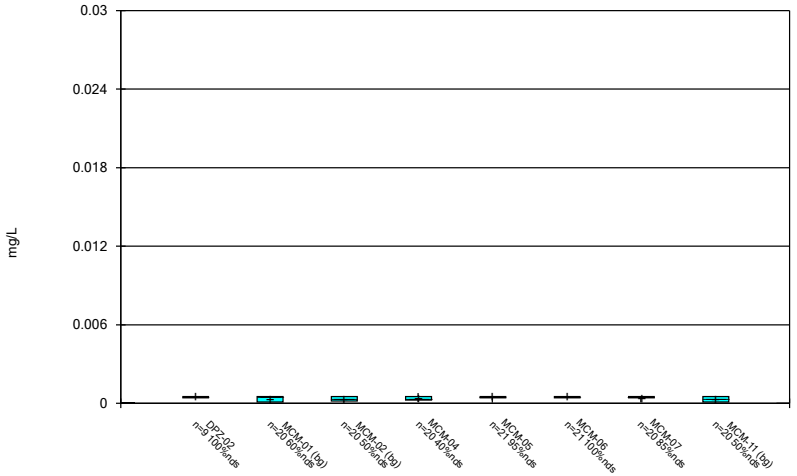
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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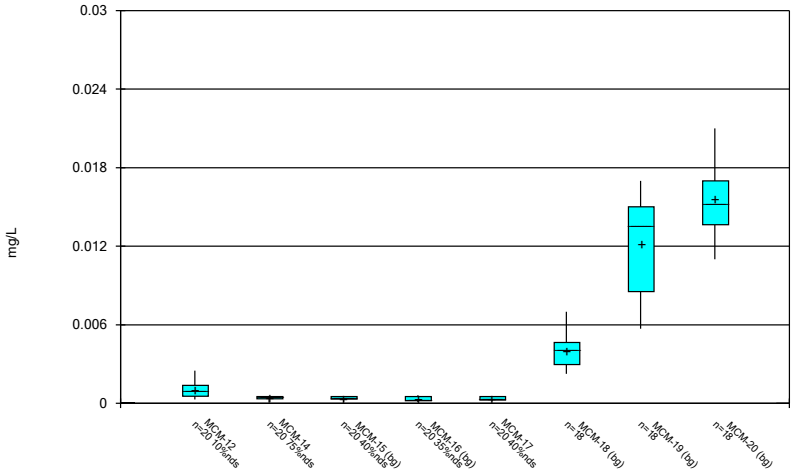
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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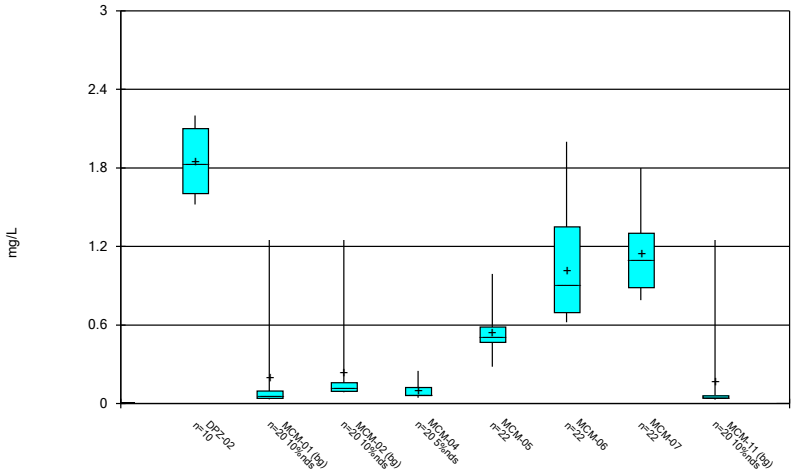
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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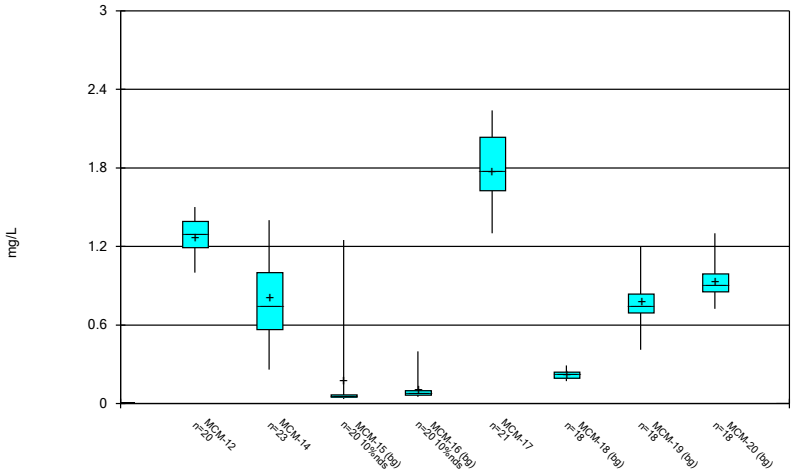
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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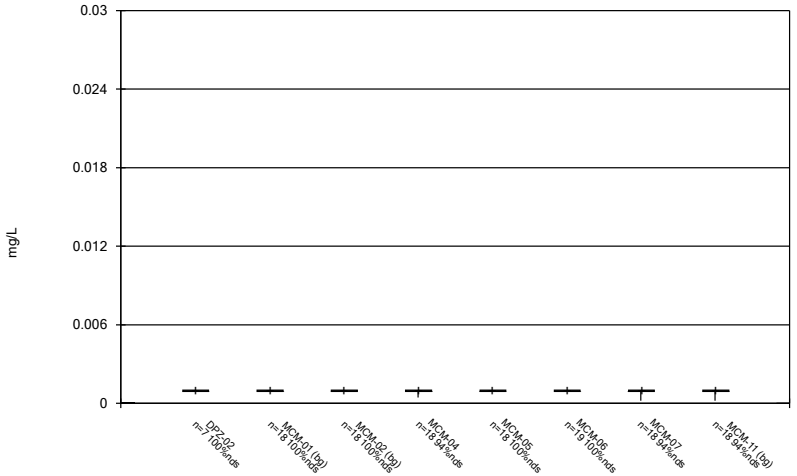
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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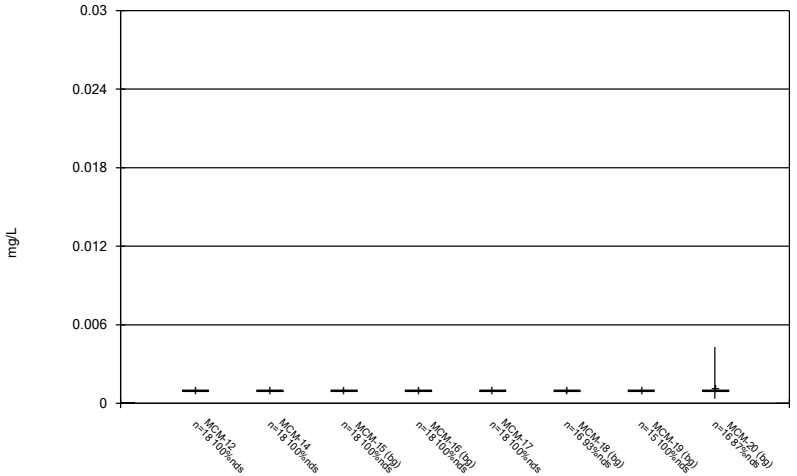
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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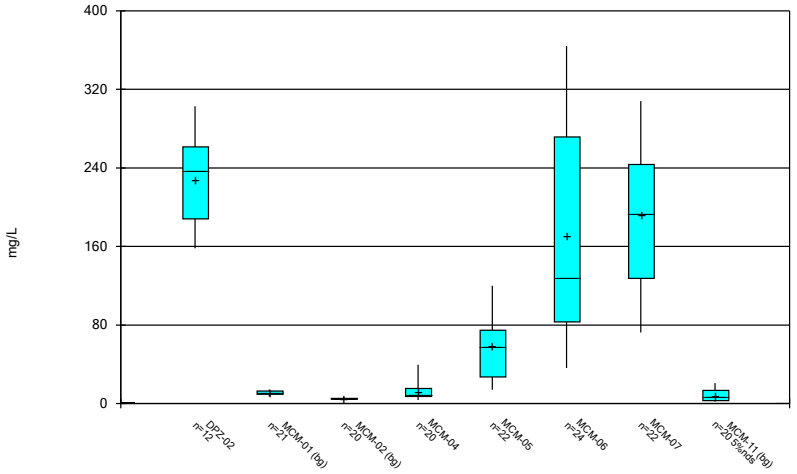
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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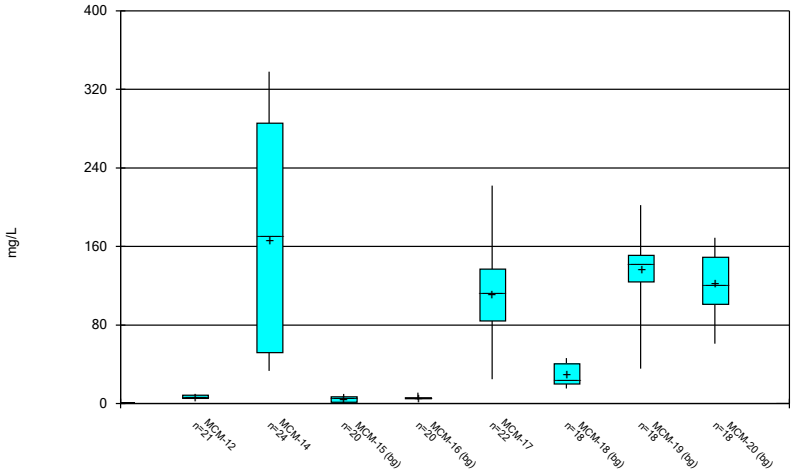
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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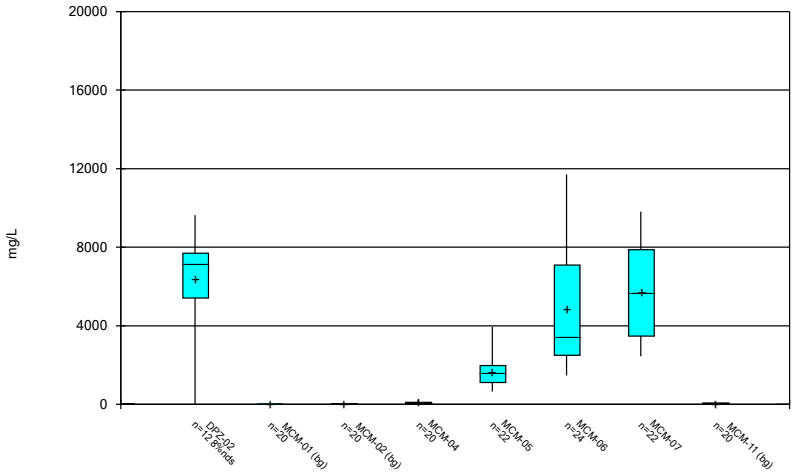
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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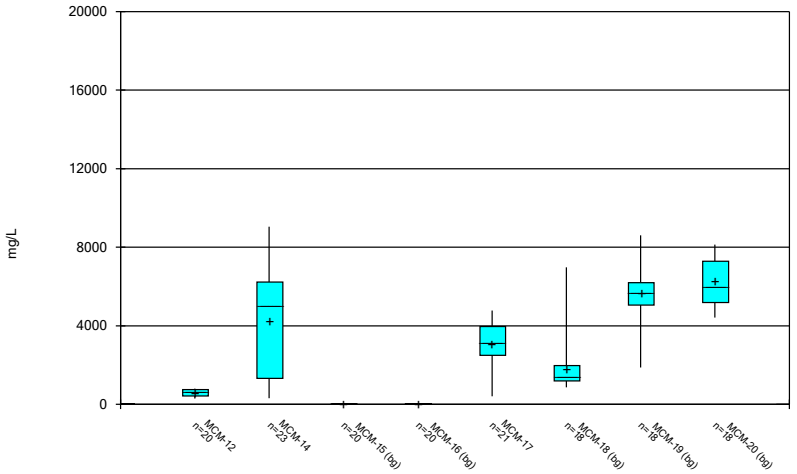
Box & Whiskers Plot

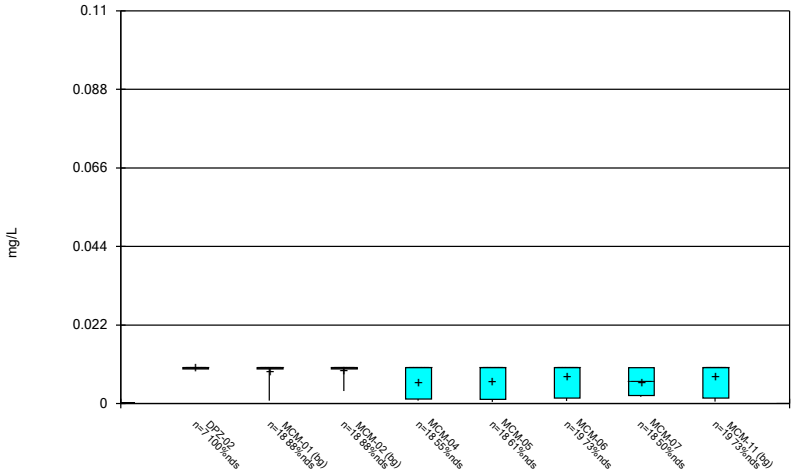


Constituent: Chloride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

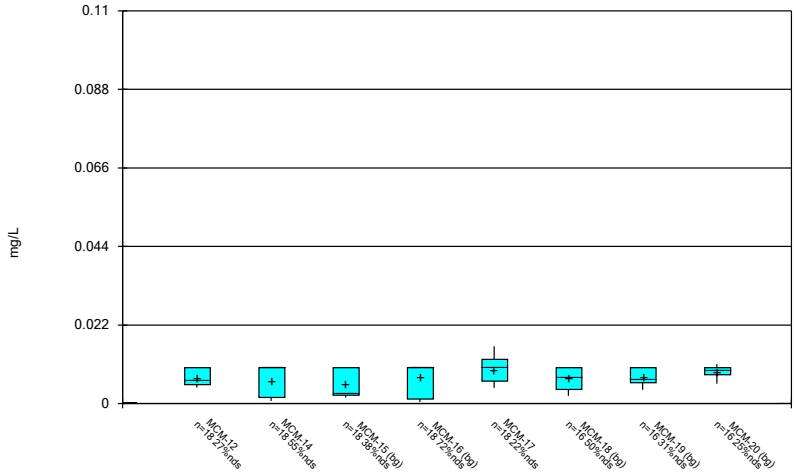
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/25/2024 8:41 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/25/2024 8:41 PM
Plant McManus Client: Southern Company Data: McManus AP

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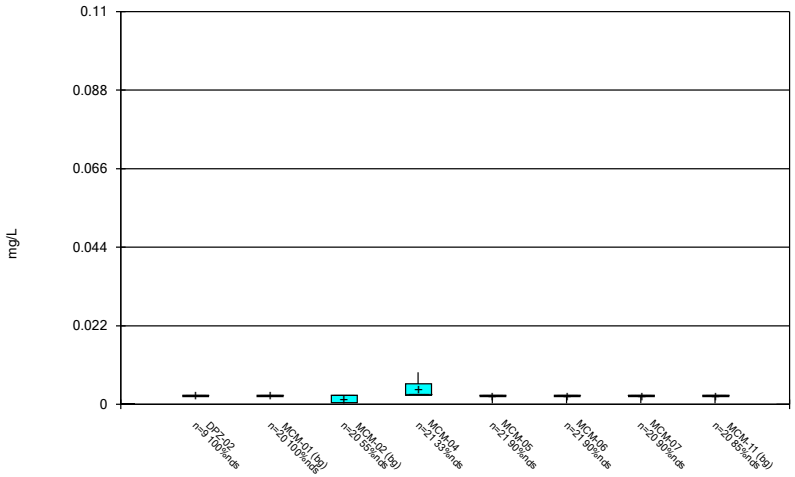
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/25/2024 8:41 PM
Plant McManus Client: Southern Company Data: McManus AP

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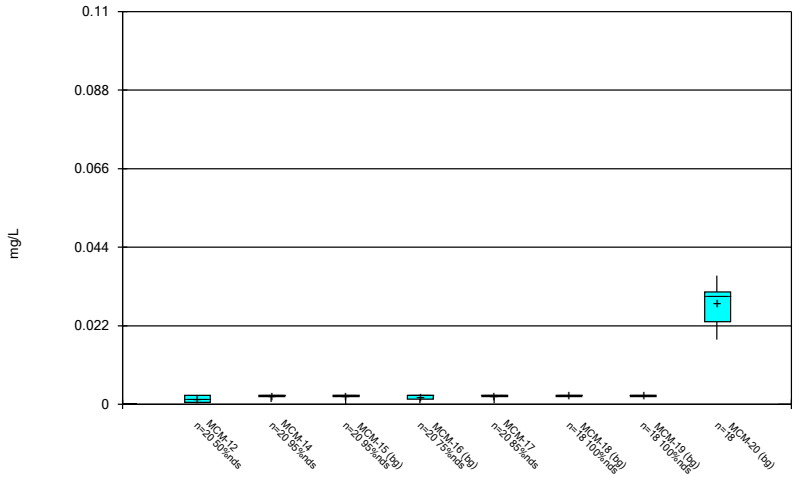
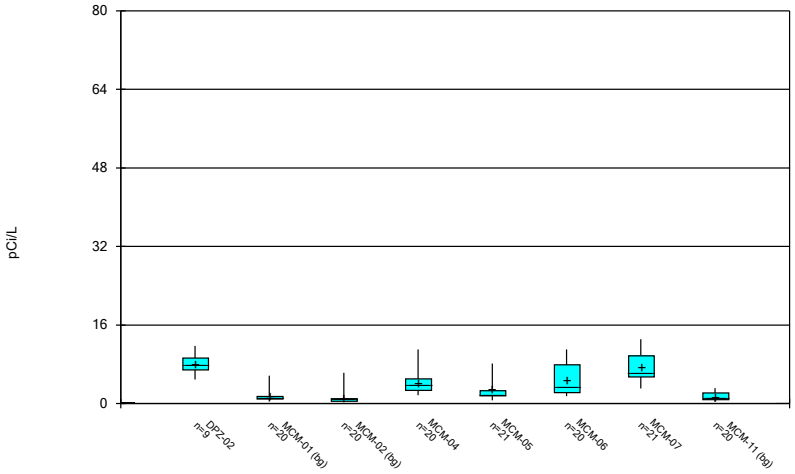
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/25/2024 8:41 PM
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

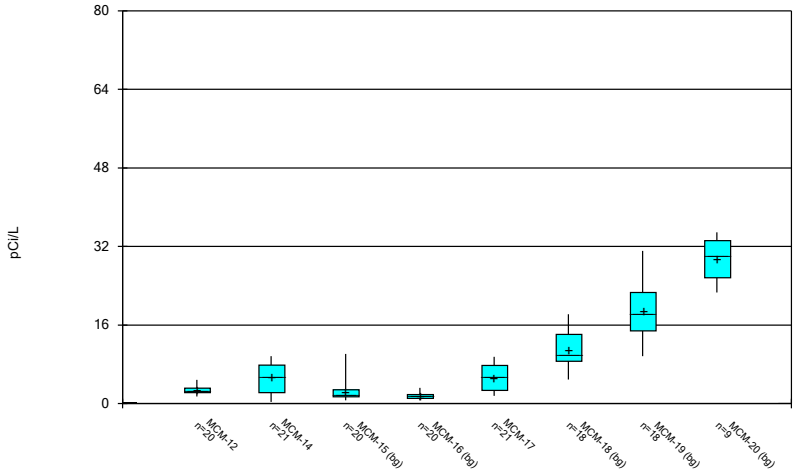


Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

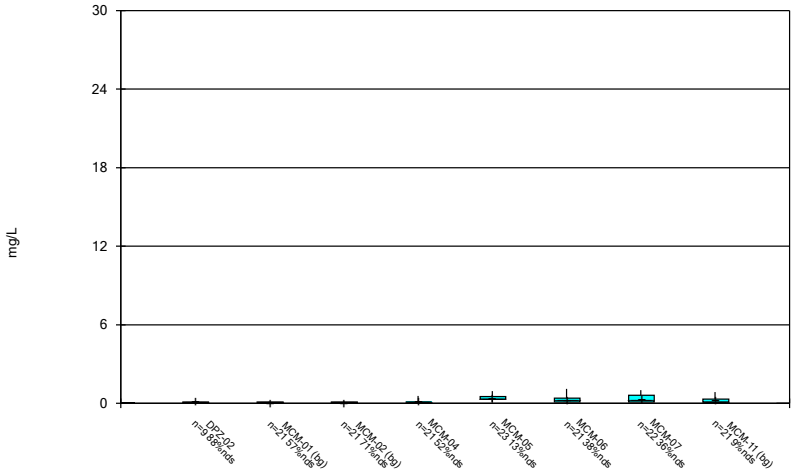


Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

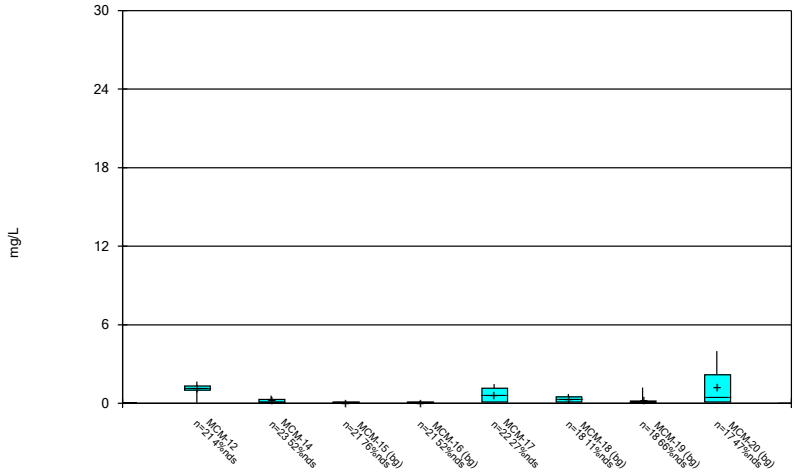


Constituent: Fluoride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

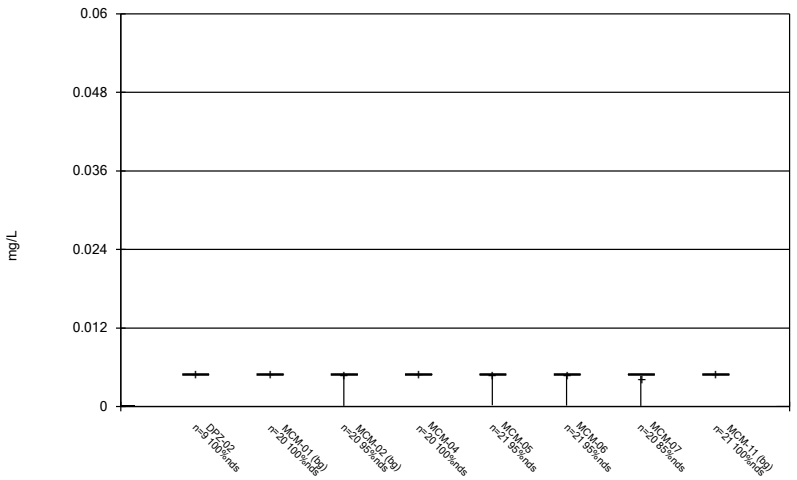


Constituent: Fluoride Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

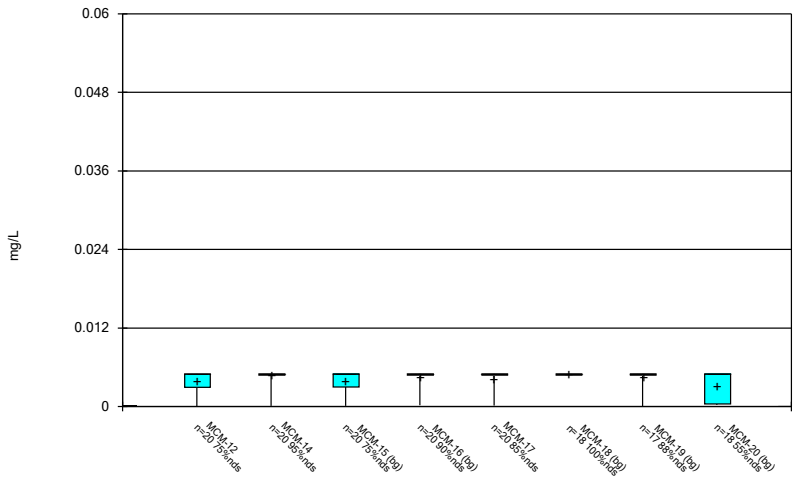


Constituent: Lead Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

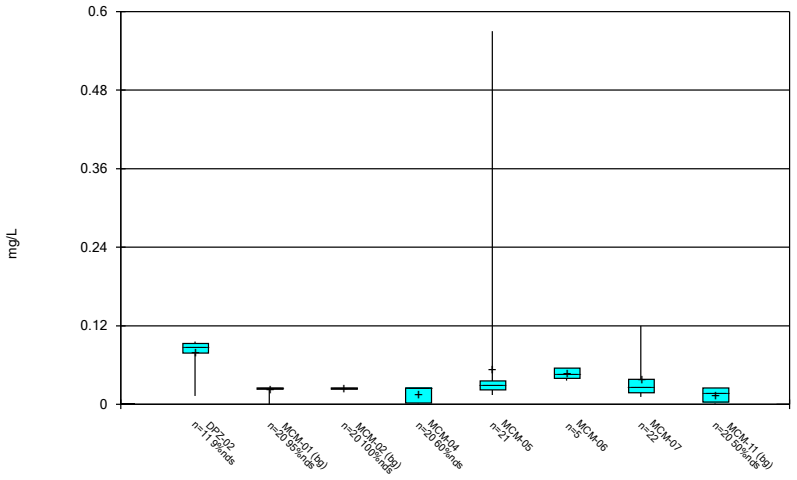


Constituent: Lead Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

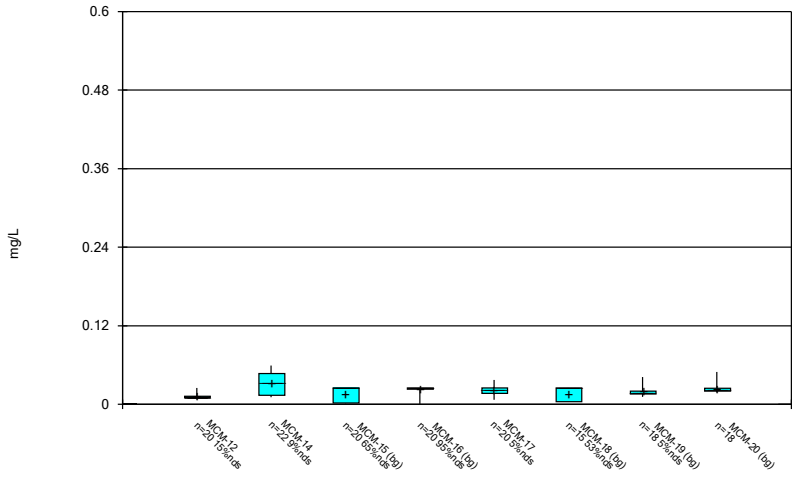


Constituent: Lithium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

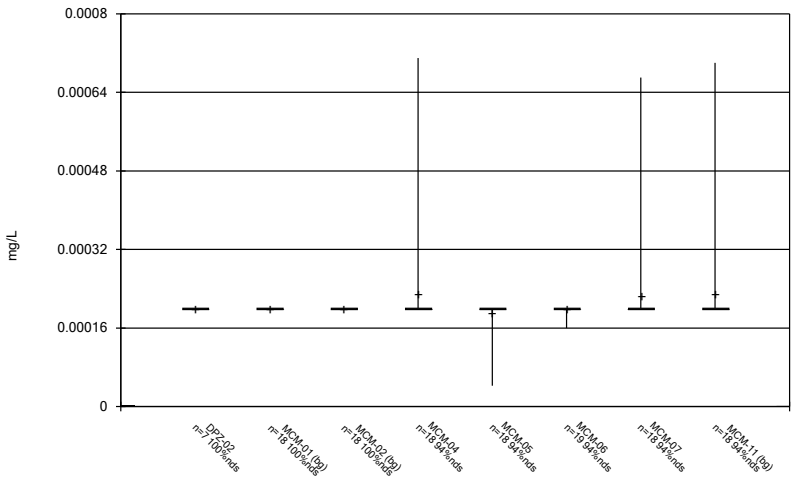


Constituent: Lithium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

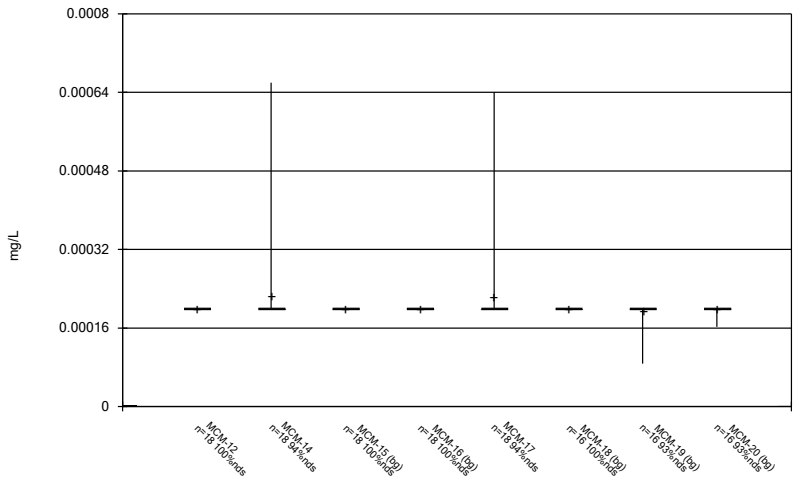


Constituent: Mercury Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

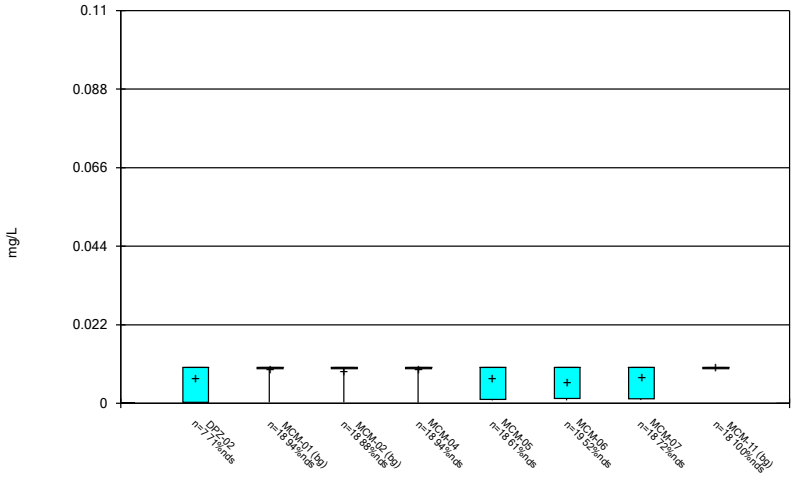


Constituent: Mercury Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

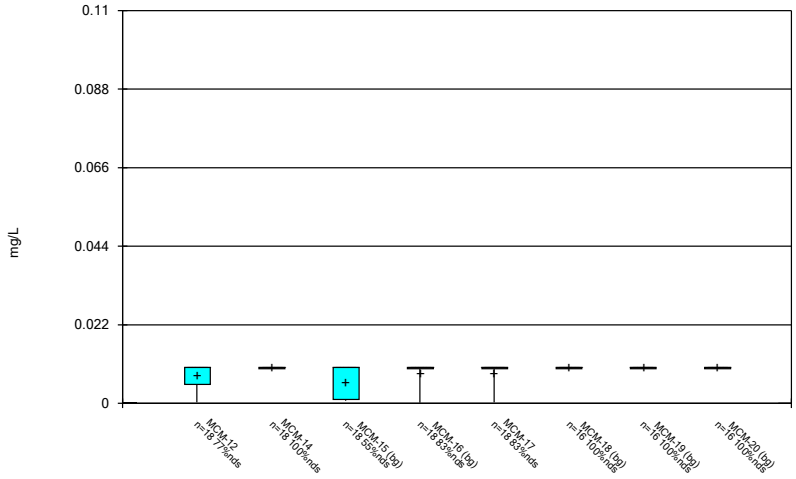


Constituent: Molybdenum Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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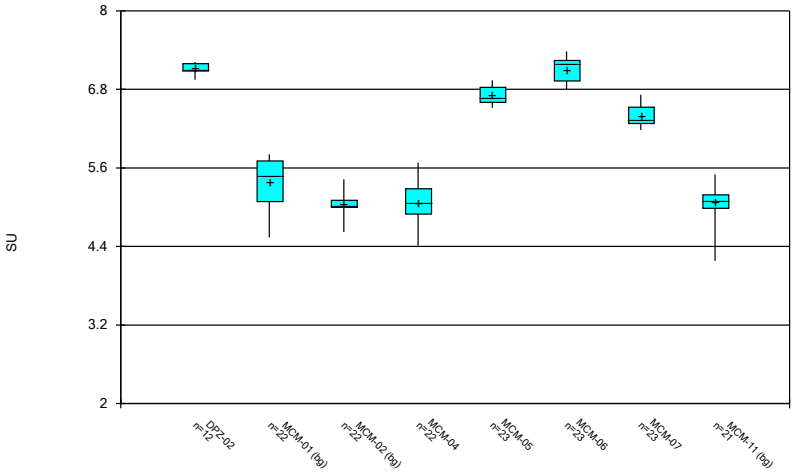
Box & Whiskers Plot

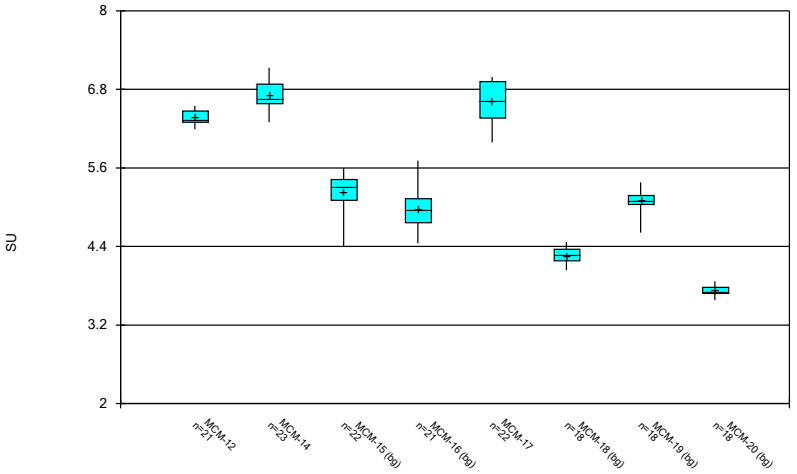


Constituent: pH, Field Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

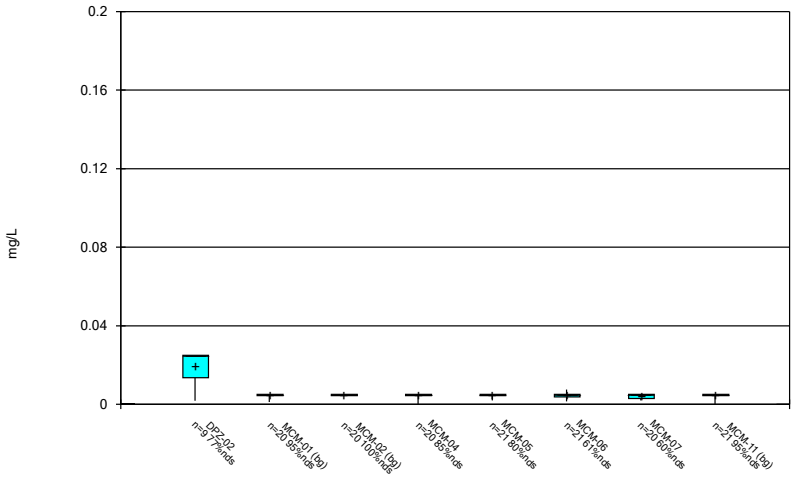


Constituent: pH, Field Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

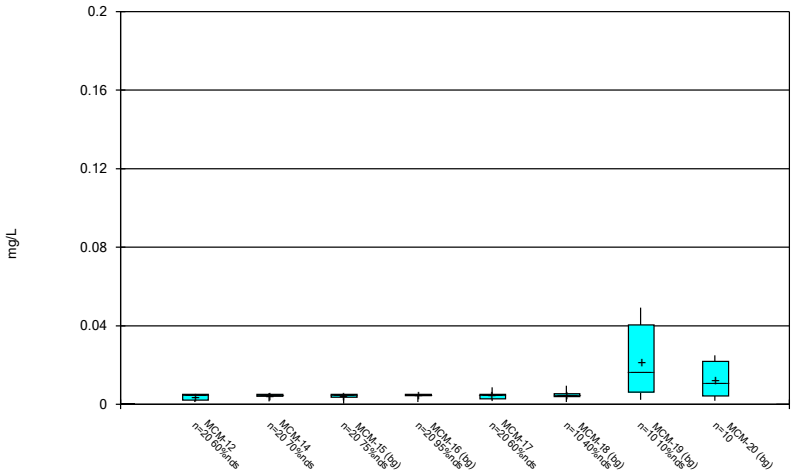


Constituent: Selenium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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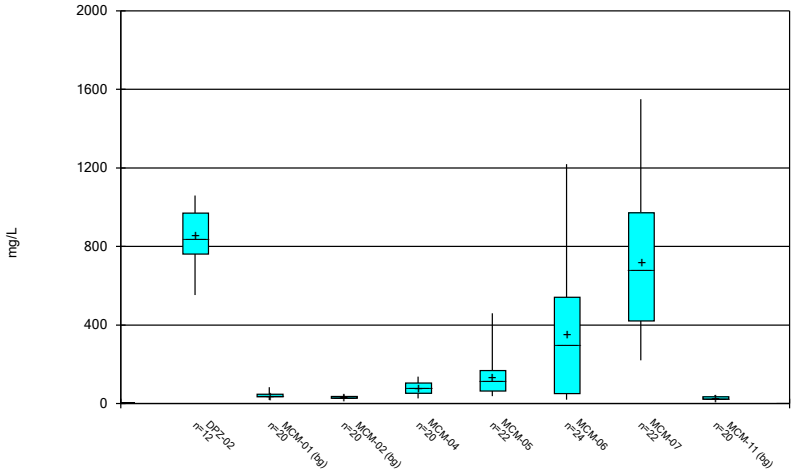
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

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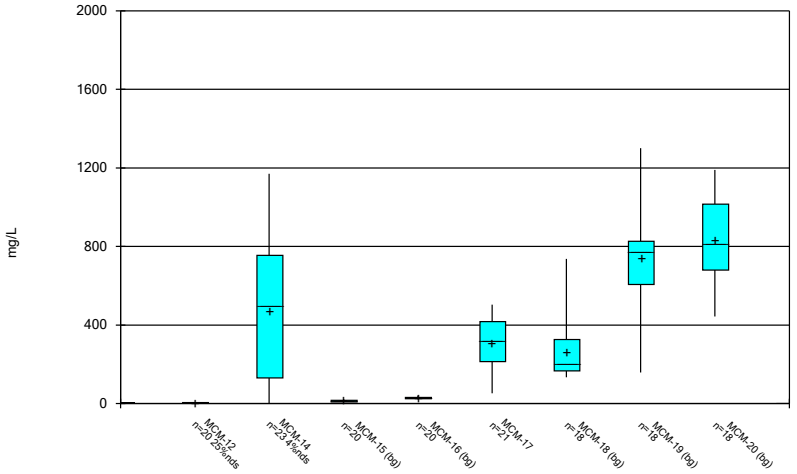
Box & Whiskers Plot

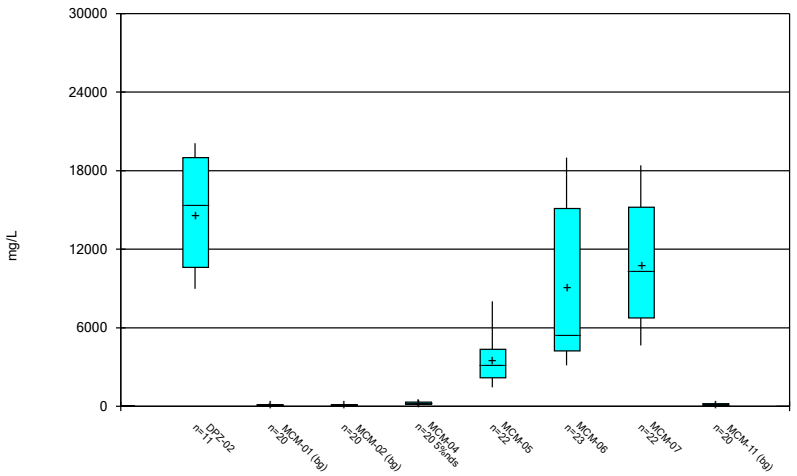


Constituent: Sulfate Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

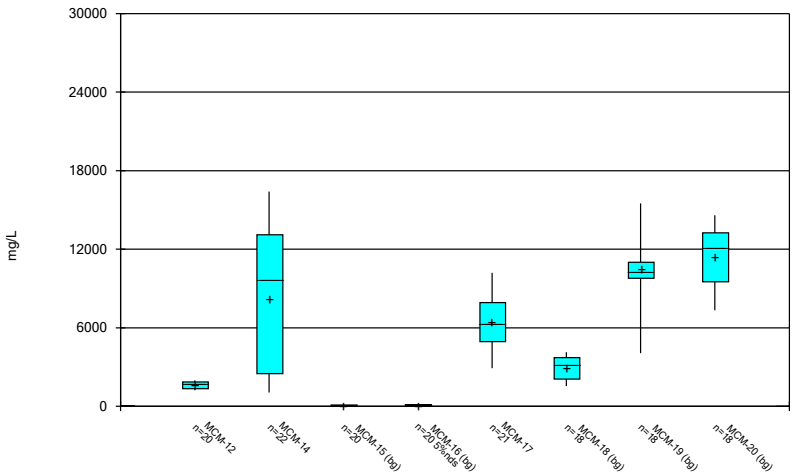


Constituent: TDS Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

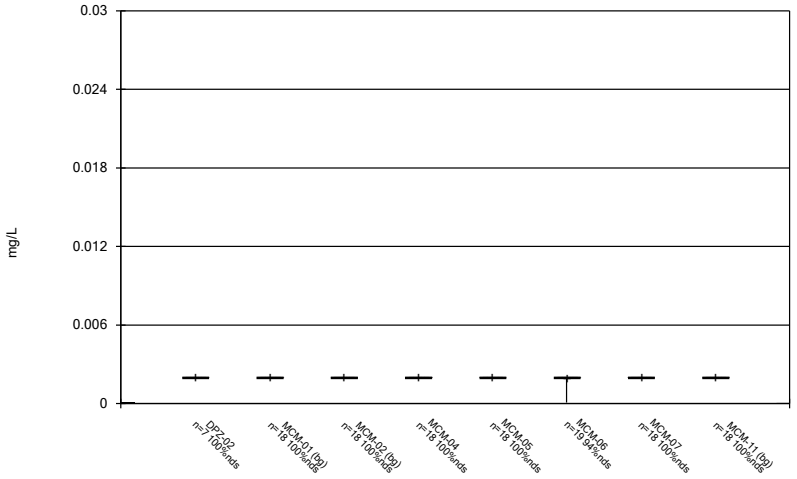


Constituent: TDS Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

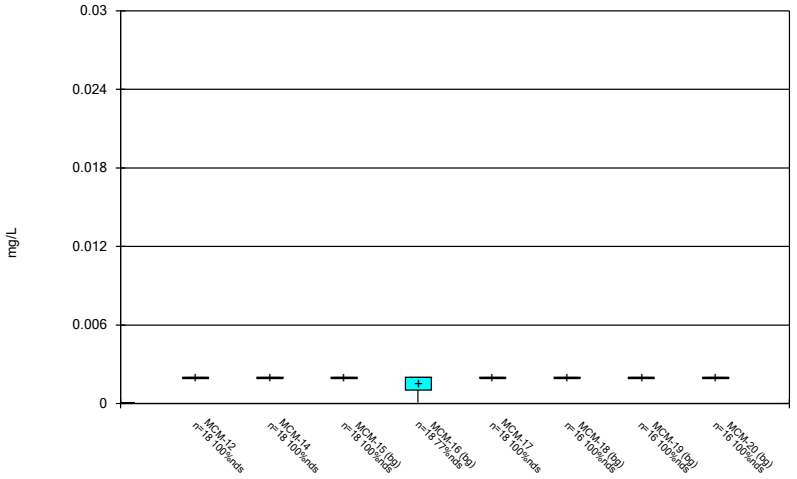


Constituent: Thallium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/25/2024 8:41 PM

Plant McManus Client: Southern Company Data: McManus AP

FIGURE C.

Outlier Summary

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:02 PM

	MCM-19 Cadmium (mg/L)	MCM-06 Fluoride (mg/L)	MCM-20 Fluoride (mg/L)	MCM-19 Lead (mg/L)	MCM-18 Lithium (mg/L)
11/7/2018		10.3 (O)			
11/18/2019					<0.1 (O)
1/21/2020					<0.15 (O)
2/4/2020					<0.3 (O)
2/13/2020				<0.025 (O)	
9/20/2022	0.0083 (O)		4.3 (JO)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	9/10/2024	0.131	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	9/11/2024	0.463	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	9/12/2024	0.745	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	9/11/2024	0.888	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/10/2024**	**1.31**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	9/11/2024	0.415	No	154	n/a	n/a	6.494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/10/2024**	**1.65**	**Yes**	**154**	**n/a**	**n/a**	**6.494**	**n/a**	**n/a**	**0.00008343**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	9/10/2024	9.06	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-05	202	n/a	9/11/2024	78.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-06	202	n/a	9/12/2024	134	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-07	202	n/a	9/11/2024	72.5	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	9/10/2024	4.67	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	9/11/2024	41.3	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	9/10/2024	57.2	No	155	n/a	n/a	0.6452	n/a	n/a	0.00008227	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	9/10/2024	100	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	9/11/2024	1800	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	9/12/2024	3240	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	9/11/2024	2440	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	9/10/2024	297	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	9/11/2024	1320	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	9/10/2024	3080	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	9/10/2024	0.0749J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	9/11/2024	0.654	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	9/12/2024	0.392J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	9/11/2024	0.692	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	9/10/2024	1.67	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	9/11/2024	0.164J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	9/10/2024	0.986J	No	158	n/a	n/a	49.37	n/a	n/a	0.00007882	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	9/10/2024	5.1	No	162	n/a	n/a	0	n/a	n/a	0.0001498	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/11/2024**	**6.94**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/12/2024**	**7.2**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2024**	**6.53**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/10/2024**	**6.44**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/11/2024**	**6.66**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/10/2024**	**6.11**	**Yes**	**162**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001498**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	9/10/2024	103	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	9/11/2024	148	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	9/12/2024	271	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	9/11/2024	296	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	9/10/2024	0.462	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	9/11/2024	180	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	9/10/2024	323	No	154	n/a	n/a	0	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	9/10/2024	316	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	9/11/2024	3020	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	9/12/2024	5340	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	9/11/2024	4640	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	9/10/2024	1230	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	9/11/2024	2480	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	9/10/2024	5490	No	154	n/a	n/a	0.6494	n/a	n/a	0.00008343	NP Inter (normality) 1 of 2

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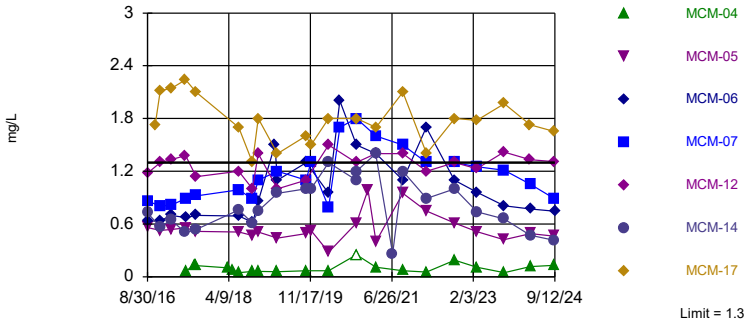
Hollow symbols indicate censored values.

Exceeds Limit: MCM-12, MCM-17

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 6.494% NDs. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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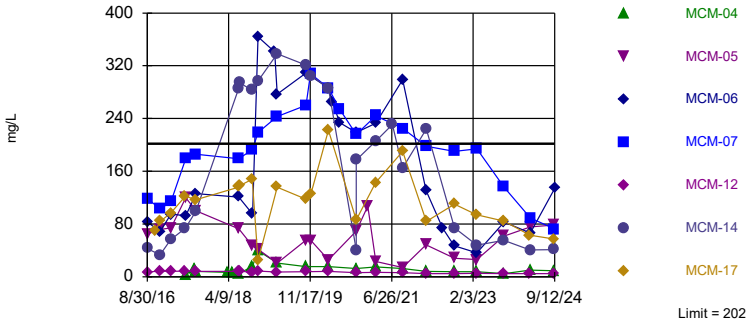
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 155 background values. 0.6452% NDs. Annual per-constituent alpha = 0.001151. Individual comparison alpha = 0.00008227 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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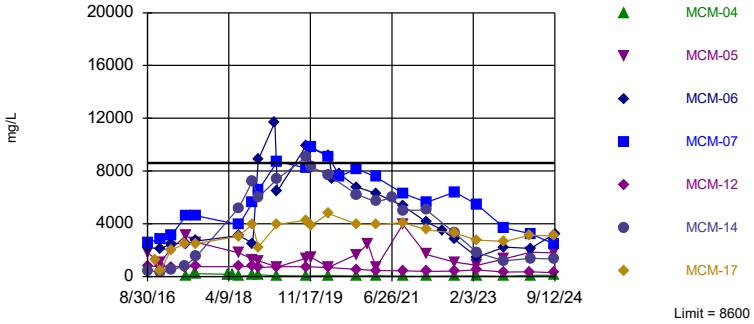
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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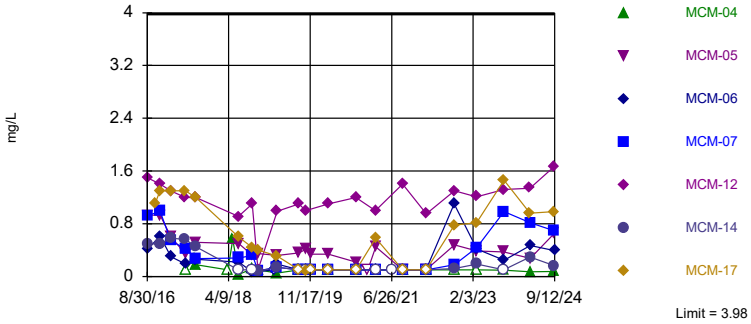
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 158 background values. 49.37% NDs. Annual per-constituent alpha = 0.001103. Individual comparison alpha = 0.00007882 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits
Plant McManus Client: Southern Company Data: McManus AP

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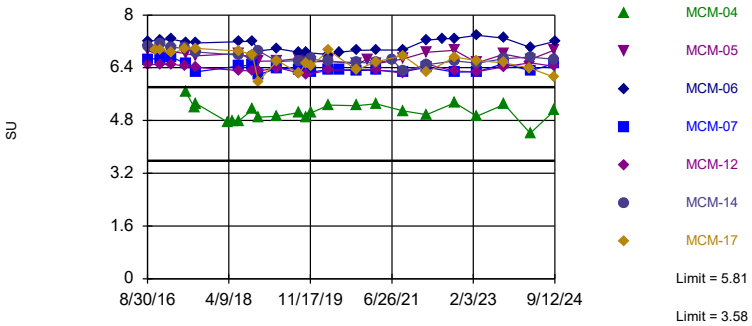
Exceeds Limits: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-17

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 162 background values. Annual per-constituent alpha = 0.002097. Individual comparison alpha = 0.0001498 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

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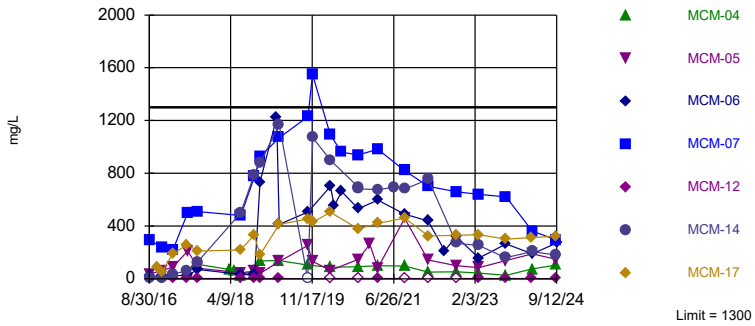
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

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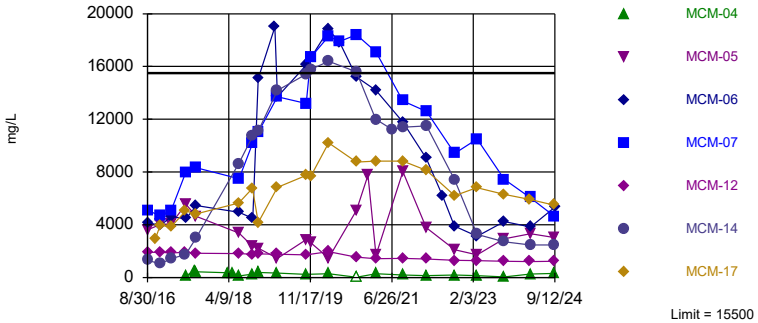
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 0.6494% NDs. Annual per-constituent alpha = 0.001167. Individual comparison alpha = 0.00008343 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 11/25/2024 8:29 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	0.0325 (J)	1.18	0.726	0.0972 (J)					
8/31/2016					0.56	0.632	0.863		
10/25/2016								1.73	
11/30/2016	0.0334 (J)	1.3	0.565	0.0964	0.529	0.637	0.804	2.12	
2/15/2017	0.254	1.33	0.647	0.398				2.14	
2/16/2017					0.539	0.698	0.815		
5/31/2017		1.38	0.503					2.24	0.0521
6/1/2017	0.0564			0.0776					
6/2/2017					0.555	0.674	0.891		
8/2/2017									0.0392 (J)
8/15/2017		1.14						2.1	0.0448
8/16/2017	0.0435		0.539						
8/17/2017				0.0853	0.516	0.7	0.922		
4/4/2018									0.046
4/5/2018									
5/8/2018									0.048
5/9/2018									
6/19/2018	0.04 (J)	1.2	0.76					1.7	0.04
6/20/2018				0.079	0.51	0.69			
6/21/2018							0.99		
9/25/2018		1	0.61						0.043
9/26/2018	0.038 (J)			0.072				1.3	
9/27/2018					0.47	0.62	0.88		
11/6/2018			0.75				1.1	1.8	0.046
11/7/2018	0.037 (J)	1.4		0.074	0.51	0.86			
3/6/2019						1.5			
3/24/2019		1	0.95		0.44	1.1	1.2	1.4	
3/25/2019	0.038 (J)			0.067					0.03 (J)
10/15/2019		1.1	1						
10/16/2019	0.036 (J)			0.051	0.49			1.6	0.032 (J)
10/17/2019						1.3	1.1		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					0.53		1.3		
11/21/2019			1					1.5	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	0.064 (J)								
3/27/2020		1.5	1.3	0.088 (J)				1.8	0.058 (J)
3/28/2020					0.28 (J)	0.95	0.79		
6/16/2020						2	1.7		
10/12/2020		1.3							<0.5
10/13/2020	<0.5		1.1	<0.5				1.8	
10/14/2020			1.2			1.5	1.8		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/15/2020					0.61				
1/4/2021					0.99				
3/2/2021		1.4 (J)	1.4 (J)						
3/3/2021	<0.5			<0.5				1.7 (J)	<0.5
3/4/2021					0.4 (J)	1.4 (J)	1.6 (J)		
7/1/2021			0.26 (J)						
9/13/2021		1.4	1.2						
9/14/2021	0.079 (J)			0.071 (J)	0.95 (J)	1.1	1.5	2.1	0.06 (J)
3/1/2022					0.75 (J)	1.7			
3/2/2022	0.048 (J)						1.3		0.038 (J)
3/3/2022		1.2	0.89 (J)	0.057				1.4	
9/20/2022						1.1			
9/21/2022	0.35 (J)	1.3	1	0.12 (J)	0.61		1.3	1.8	0.17 (J)
2/28/2023		1.23						1.78	
3/1/2023	0.091			0.0669					0.0461
3/2/2023			0.738		0.511	0.961	1.25		
9/12/2023	0.101	1.42	0.657	0.0613	0.42				
9/13/2023							1.21	1.97	0.0783
9/14/2023						0.807			
3/19/2024		1.33						1.73	
3/20/2024	0.0784		0.474						0.0443
3/21/2024				0.0603	0.491	0.772	1.05		
9/10/2024		1.31						1.65	0.0483
9/11/2024	0.0753		0.415	0.0517	0.463		0.888		
9/12/2024						0.745			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.161					
6/1/2017		0.0608				
6/2/2017			0.0495			
8/2/2017	0.158	0.137	0.0333 (J)			
8/15/2017						
8/16/2017	0.148					
8/17/2017		0.128	0.0593			
4/4/2018		0.1	0.065			
4/5/2018	0.13					
5/8/2018		0.074	0.062			
5/9/2018	0.12					
6/19/2018	0.13		0.064			
6/20/2018		0.045				
6/21/2018						
9/25/2018						
9/26/2018	0.1		0.06			
9/27/2018		0.06				
11/6/2018		0.06				
11/7/2018	0.1		0.062 (J)			
3/6/2019						
3/24/2019						
3/25/2019	0.091	0.058	0.057			
10/15/2019		0.068	0.046			
10/16/2019	0.085					
10/17/2019						
11/7/2019				0.84	1.1	0.27
11/18/2019						0.29 (J)
11/19/2019				0.83	1.3	
11/20/2019						
11/21/2019						
12/4/2019				0.68	0.81	
12/5/2019						0.23
12/17/2019				0.57		
12/18/2019					0.77	0.23
1/8/2020				0.73	0.9	
1/9/2020						0.2
1/21/2020				0.75	0.94	0.24 (J)
2/4/2020				0.79 (J)	0.96 (J)	0.24 (J)
2/13/2020				0.74	0.88	0.22
3/26/2020						
3/27/2020	0.17 (J)		0.076 (J)	0.96	0.94	0.24 (J)
3/28/2020		0.067 (J)				
6/16/2020						
10/12/2020						0.24 (J)
10/13/2020	<0.5	<0.5	<0.5	0.73	1.1	
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/15/2020						
1/4/2021						
3/2/2021			<0.5			
3/3/2021	<0.5			0.79 (J)	0.91 (J)	0.21 (J)
3/4/2021		0.11 (J)				
7/1/2021						
9/13/2021						
9/14/2021	0.093 (J)	0.07 (J)	0.068 (J)	1.2	0.91 (J)	0.2 (J)
3/1/2022				0.41 (J)	0.87 (J)	
3/2/2022	0.086		0.054			0.23 (J)
3/3/2022		0.053				
9/20/2022				0.77	0.9	0.18 (J)
9/21/2022	0.23 (J)	0.19 (J)	0.14 (J)			
2/28/2023				0.707	0.723	0.185
3/1/2023	0.115	0.108				
3/2/2023			0.0416			
9/12/2023			0.0393			
9/13/2023		0.047		1.2	1.02	
9/14/2023	0.102					0.229
3/19/2024	0.0924			0.704		0.185
3/20/2024		0.116	0.0531			
3/21/2024					0.864	
9/10/2024		0.131				
9/11/2024	0.0875		0.035	0.61	0.841	0.172
9/12/2024						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	7.3	7.05	42.8	4.02					
8/31/2016					65	82.8	119		
10/25/2016								69.4	
11/30/2016	10.8	8.69	33.2	4.87	71.7	68.7	103	83.9	
2/15/2017	14.3	8.34	56.1	6.61				96.3	
2/16/2017					74	94.8	114		
5/31/2017		8.85	73.6					122	18.6
6/1/2017	12.7 (J)			6.42					
6/2/2017					120	92.5	179		
8/2/2017									18.5
8/15/2017		8.05						117	4.09
8/16/2017	8.7		99.6						
8/17/2017				5.62	100	126	186		
4/4/2018									<25
4/5/2018									
5/8/2018									18.4 (J)
5/9/2018									
6/19/2018	11.6 (J)	8.3	285					136	4.3
6/20/2018				5.7	72.8	121			
6/21/2018							179		
6/28/2018	13	8.9	294					138	
9/25/2018		6.8	283						6.2
9/26/2018	12.8 (J)			5.3				148	
9/27/2018					46.6	95.1	193		
11/6/2018			297				219	24.7	1.8
11/7/2018	11.9	8.5		5.3	41.8	364			
3/6/2019						341			
3/24/2019		7.4	338		20.9 (J)	277	243	136	
3/25/2019	12.6 (J)			5.7					2.5
10/15/2019		7.9	321						
10/16/2019	13.6			4.8	55.2			118	2.2
10/17/2019						309	260		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					55.8		308		
11/21/2019			305					125	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	10.1								
3/27/2020		8.3	286	5.4				222	3.3
3/28/2020					25.8	286	286		
4/23/2020						266			
6/16/2020						234	254		
10/12/2020		6.1							2.8

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/13/2020	9.8		40.9	5.7				86.4	
10/14/2020			177			219 (D)	216		
10/15/2020					69.1				
1/4/2021					107				
3/2/2021		6.5	205						
3/3/2021	14			11.2				143	2.1
3/4/2021					23.4	233	244		
7/1/2021			231						
9/13/2021		6	165						
9/14/2021	9.6			6.5	13.9	299	225	190	14
3/1/2022					48.4	131			
3/2/2022	8.2						198		6.8
3/3/2022		4.6	224	5.4				84	
6/28/2022						73.5			
9/20/2022						47			
9/21/2022	9.2	4.7	74	4.6	28		190	110	7.6
2/28/2023		5.17						94.2	
3/1/2023	7.87			4.74					6.53
3/2/2023			48		25.9	36.1	194		
9/12/2023	10.1	4.98	55.3	4.48	61.5				
9/13/2023							136	84.6	20.7
9/14/2023						83.1			
3/19/2024		4.99						63.2	
3/20/2024	11.3		40.6						9.1
3/21/2024				5.32	75.5	66.6	89.1		
9/10/2024		4.67						57.2	6.36
9/11/2024	9.6		41.3	5.49	78.5		72.5		
9/12/2024						134			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.9					
6/1/2017		3.65				
6/2/2017			2.77			
8/2/2017	4.69	12.4	1.27			
8/15/2017						
8/16/2017	5.25					
8/17/2017		8.17	5.53			
4/4/2018		6.8	6.5			
4/5/2018	5					
5/8/2018		5.7	6.7			
5/9/2018	4.7					
6/19/2018	4.8		7.4			
6/20/2018		4.3				
6/21/2018						
6/28/2018						
9/25/2018						
9/26/2018	4.6		8.5 (J)			
9/27/2018		16.4 (J)				
11/6/2018		39.5				
11/7/2018	4.6		9.8			
3/6/2019						
3/24/2019						
3/25/2019	4.7	20.8 (J)	7.8			
10/15/2019		15.5	6.7			
10/16/2019	4.9					
10/17/2019						
11/7/2019				46.2	158	163
11/18/2019				41.8		
11/19/2019					152	169
11/20/2019						
11/21/2019						
12/4/2019					142	140
12/5/2019				40.5		
12/17/2019					136	
12/18/2019				42		145
1/8/2020					147	157
1/9/2020				37.1		
1/21/2020				40.1	167	152
2/4/2020				36.2	142	139
2/13/2020				38.9	148	146
3/26/2020						
3/27/2020	4.9		5.9	23.2	122	113
3/28/2020		15.5				
4/23/2020						
6/16/2020						
10/12/2020				19.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/13/2020	3.8	12.5	0.83		125	128
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			1.4			
3/3/2021	4			26	123	110
3/4/2021		15.1				
7/1/2021						
9/13/2021						
9/14/2021	4.2	12.5	6.7	18.8	93.6	61.1
3/1/2022					35.5	99.8
3/2/2022	4.1		7.2	22.3		
3/3/2022		8				
6/28/2022						
9/20/2022				20	150	100
9/21/2022	4.3	7.8	0.83			
2/28/2023				22.5	150	104
3/1/2023	5.26	7.75				
3/2/2023			1.41			
9/12/2023			0.953			
9/13/2023		4.93			202	108
9/14/2023	6.64			21.1		
3/19/2024	4.73			19.7	138	
3/20/2024		10.1	4.88			
3/21/2024						102
9/10/2024		9.06				
9/11/2024	5.36		0.928	15.3	127	87.8
9/12/2024						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	9.7	450	26	800					
8/31/2016					2600	2200	1800		
10/25/2016								1300	
11/30/2016	19	310	27	760	2800	2100	1100	400	
2/15/2017	21	490	30	740				2000	
2/16/2017					3100	2500	2100		
5/31/2017		820		740				2500	98
6/1/2017	12		27						
6/2/2017					4600	2500	3100		
8/2/2017									57
8/15/2017				750				2500	15
8/16/2017	14	1500							
8/17/2017			32		4600	2700	2600		
4/4/2018									69
4/5/2018									
5/8/2018									72.3
5/9/2018									
6/19/2018	24.4	5180		760				3050	17.3
6/20/2018			30			3100	1800		
6/21/2018					3920				
9/25/2018		7220		752					31.3
9/26/2018	23.4		28.4					3965 (D)	
9/27/2018					5660	2510	1300		
11/6/2018		6020			6520			2230	9.8
11/7/2018	21.8		25.1	665		8860	1180		
3/6/2019						11700			
3/24/2019		7400		744	8720	6470	717	3960	
3/25/2019	19.4		21.8						12.9
10/15/2019		9050		744					
10/16/2019	21.4		20				1390	4260	12.2
10/17/2019					8210	9930			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					9810		1480		
11/21/2019		8330						3890	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	23								
3/27/2020		7680	23.6	675				4770	14.5
3/28/2020					9070	9190	693		
4/23/2020						7390			
6/16/2020					7580	7760			
10/12/2020				552					13.9
10/13/2020	13.5	6230	23.3					3980	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/14/2020		6230			8170	6780 (D)			
10/15/2020							1660		
1/4/2021							2460		
3/2/2021		5680		459					
3/3/2021	13.6		27.6					3920	9.4
3/4/2021					7540	6310	652		
7/1/2021		5960							
9/13/2021		5010		433					
9/14/2021	16.7		30		6300	5360	3940	4090	62.8
3/1/2022						4150	1680		
3/2/2022	13.4				5630				28.4
3/3/2022		5040	26.5	394				3540	
6/28/2022						3520			
9/20/2022						2800			
9/21/2022	17	3300	17	400	6400		1100	3300	32
2/28/2023				518				2770	
3/1/2023	14.9		14.2						17.7
3/2/2023		1810			5450	1470	853		
9/12/2023	10.7	1180	13.3	326			1330		
9/13/2023					3690			2660	98.5
9/14/2023						2220			
3/19/2024				361				3130	
3/20/2024	10.8	1390							32.1
3/21/2024			11.5		3240	2120	1830		
9/10/2024				297				3080	11.2
9/11/2024	9.34	1320	9.65		2440		1800		
9/12/2024						3240			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	39					
6/1/2017		22				
6/2/2017			11			
8/2/2017	42	230	3.2			
8/15/2017						
8/16/2017	41					
8/17/2017		210	12			
4/4/2018		156	13.4			
4/5/2018	40.2					
5/8/2018		140	13.2			
5/9/2018	40.6					
6/19/2018	37.7		13.7			
6/20/2018		27.5				
6/21/2018						
9/25/2018						
9/26/2018	33.4		18.5			
9/27/2018		101				
11/6/2018		107				
11/7/2018	30.7		20.2			
3/6/2019						
3/24/2019						
3/25/2019	33.5	78.5	19.7			
10/15/2019		46	17.1			
10/16/2019	33.1					
10/17/2019						
11/7/2019				2360	7880	6170
11/18/2019				6970		
11/19/2019					8130	5650
11/20/2019						
11/21/2019						
12/4/2019					7410	6100
12/5/2019				2130		
12/17/2019						5660
12/18/2019				2090	7170	
1/8/2020					6480	5070
1/9/2020				1750		
1/21/2020				1630	6000	5010
2/4/2020				1760	5700	5030
2/13/2020				1850	7060	6140
3/26/2020						
3/27/2020	32.9		14.1	1450	7110	6870
3/28/2020		71.4				
4/23/2020						
6/16/2020						
10/12/2020				1340		
10/13/2020	25.7	54.4	3.8		5980	5260

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			4.2			
3/3/2021	20.5			1230	5500	5170
3/4/2021		69.6				
7/1/2021						
9/13/2021						
9/14/2021	21.8	28.5	13.6	1020	5100	7250
3/1/2022					4900	1870
3/2/2022	20.6		14.3	1420		
3/3/2022		12.2				
6/28/2022						
9/20/2022				1200	5700	6200
9/21/2022	23	47	3.3			
2/28/2023				1250	7930	5760
3/1/2023	21.8	45.6				
3/2/2023			4.88			
9/12/2023			3.49			
9/13/2023		10.4			5250	8600
9/14/2023	21.1			1190		
3/19/2024	20			1100		5460
3/20/2024		82.3	13.5			
3/21/2024					4980	
9/10/2024		100				
9/11/2024	16.4		3.34	856	4420	4880
9/12/2024						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	0.03 (J)	1.5	0.5	0.04 (J)					
8/31/2016					0.41	0.92	0.93		
10/25/2016								1.1	
11/30/2016	0.04 (J)	1.4	0.49	0.18 (J)	0.61	0.99	0.93	1.3	
2/15/2017	0.007 (J)	1.3	0.58	0.02 (J)				1.3	
2/16/2017					0.3 (J)	0.54	0.6		
5/31/2017		1.2	0.56					1.3	0.85
6/1/2017	<0.1			0.005 (J)					
6/2/2017					0.19 (J)	0.42	0.34		
8/2/2017									0.69
8/15/2017		1.2						1.2	0.29 (J)
8/16/2017	0.03 (J)		0.45						
8/17/2017				0.04 (J)	0.26 (J)	0.27 (J)	0.52		
4/4/2018									0.32
4/5/2018									
5/8/2018									0.63
5/9/2018									
6/19/2018	<0.1	0.91	<0.1					0.6	0.17 (J)
6/20/2018				0.038 (J)	0.22 (J)		0.5		
6/21/2018						0.28 (J)			
9/25/2018		1.1	<0.1						0.15 (J)
9/26/2018	0.12 (J)			<0.1				0.44 (D)	
9/27/2018					0.068 (J)	0.32	0.32		
11/6/2018			0.084 (J)			0.086 (J)		0.4	<0.1
11/7/2018	<0.1	<0.1		<0.1	10.3 (O)		0.35		
3/6/2019					<0.1				
3/24/2019		0.99	0.14 (J)		0.19 (J)	0.14 (J)	0.32	0.31	
3/25/2019	0.038 (J)			0.041 (J)					0.12 (J)
8/26/2019			<0.1						
8/27/2019	<0.1	1.1		<0.1				<0.1	
8/28/2019					<0.1	<0.1	0.36		0.068 (J)
10/15/2019		1	<0.1						
10/16/2019	0.046 (J)			0.044 (J)			0.41	0.083 (J)	0.1 (J)
10/17/2019					<0.1	<0.1			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						<0.1	0.34		
11/21/2019			<0.1					<0.1	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	<0.1								
3/27/2020		1.1	<0.1	<0.1				<0.1	0.066 (J)
3/28/2020					<0.1	<0.1	0.34		
10/12/2020		1.2							<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
10/13/2020	<0.1		<0.1	<0.1				<0.1	
10/14/2020					<0.1	<0.1			
10/15/2020							0.22		
1/4/2021							<0.1		
3/2/2021		1	<0.1						
3/3/2021	<0.1			<0.1				0.58 (J)	0.082 (J)
3/4/2021					<0.1	<0.1	0.45		
7/1/2021			<0.1						
9/13/2021		1.4	<0.1						
9/14/2021	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.18
3/1/2022					<0.1		<0.1		
3/2/2022	<0.1					<0.1			0.097 (J)
3/3/2022		0.95	<0.1	<0.1				<0.1	
9/20/2022					1.1 (J)				
9/21/2022	<0.1	1.3	0.12	<0.1		0.18	0.48	0.78	0.11
2/28/2023		1.21						0.815	
3/1/2023	<0.1			0.0397 (J)					0.101
3/2/2023			0.188 (J)		0.419 (J)	0.44 (J)	0.388		
9/12/2023	<0.1	1.32	<0.1	<0.1			0.374		
9/13/2023						0.982 (J)		1.46	0.362
9/14/2023					0.246 (J)				
3/19/2024		1.34						0.959 (J)	
3/20/2024	0.0748 (J)		0.294 (J)						0.206
3/21/2024				0.0585 (J)	0.469 (J)	0.814 (J)	0.277		
9/10/2024		1.67						0.986 (J)	0.202
9/11/2024	0.0669 (J)		0.164 (J)	<0.1		0.692	0.654		
9/12/2024					0.392 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.01 (J)					
6/1/2017		<0.1				
6/2/2017			<0.1			
8/2/2017	0.14 (J)	0.27 (J)	0.05 (J)			
8/15/2017						
8/16/2017	0.13 (J)					
8/17/2017		0.18 (J)	<0.1			
4/4/2018		<0.1	<0.1			
4/5/2018	<0.1					
5/8/2018		0.56	<0.1			
5/9/2018	<0.1					
6/19/2018	0.065 (J)		0.057 (J)			
6/20/2018		0.033 (J)				
6/21/2018						
9/25/2018						
9/26/2018	<0.1		<0.1			
9/27/2018		0.12 (J)				
11/6/2018		<0.1				
11/7/2018	<0.1		<0.1			
3/6/2019						
3/24/2019						
3/25/2019	0.039 (J)	0.055 (J)	0.036 (J)			
8/26/2019						
8/27/2019		<0.1	<0.1			
8/28/2019	<0.1					
10/15/2019		0.095 (J)	0.14 (J)			
10/16/2019	0.044 (J)					
10/17/2019						
11/7/2019				1.4	0.49	<0.1
11/18/2019					0.52	
11/19/2019				1.2		0.033 (J)
11/20/2019						
11/21/2019						
12/4/2019				1.4		0.22 (J)
12/5/2019					0.5	
12/17/2019						<0.1
12/18/2019				1.5	0.33	
1/8/2020				<0.1		<0.1
1/9/2020					0.12 (J)	
1/21/2020				0.53	0.13 (J)	0.11 (J)
2/4/2020				<0.1	0.18 (J)	<0.1
2/13/2020				<0.1	0.077 (J)	<0.1
3/26/2020						
3/27/2020	<0.1		<0.1	<0.1	0.06 (J)	<0.1
3/28/2020		<0.1				
10/12/2020					0.34	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/13/2020	<0.1	<0.1	<0.1	<0.1		<0.1
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			<0.1			
3/3/2021	<0.1			<0.1	0.32	<0.1
3/4/2021		<0.1				
7/1/2021						
9/13/2021						
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022				<0.1		<0.1
3/2/2022	<0.1		<0.1		<0.1	
3/3/2022		<0.1				
9/20/2022				4.3 (JO)	0.61 (J)	<0.1
9/21/2022	<0.1	<0.1	<0.1			
2/28/2023				3.32	0.407 (J)	0.38 (J)
3/1/2023	<0.1	<0.1				
3/2/2023			0.0397 (J)			
9/12/2023			<0.1			
9/13/2023		0.0941 (J)		3.98		<0.1
9/14/2023	<0.1				0.251 (J)	
3/19/2024	<0.1				0.702	1.2 (J)
3/20/2024		0.0744 (J)	<0.1			
3/21/2024				3.79		
9/10/2024		0.0749 (J)				
9/11/2024	<0.1		<0.1	2.83	0.267	0.743 (J)
9/12/2024						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	5.66	6.49	5.18	7.04					
8/31/2016					6.93	7.21	6.66		
10/25/2016								6.95	
11/30/2016	5.36	6.5	4.96	7.13	6.77	7.23	6.69	6.95	
2/15/2017	5.25	6.51	5.13	7.02				6.85	
2/16/2017					6.89	7.27	6.72		
5/31/2017		6.45		7				6.96	5.29
6/1/2017	5.59		4.99						
6/2/2017					6.83	7.18	6.53		
8/2/2017									5.19
8/15/2017		6.41						6.99	5.19
8/16/2017	5.58			6.88					
8/17/2017			4.68		6.76	7.15	6.28		
4/4/2018									5.19
4/5/2018									
5/8/2018									5.3
5/9/2018									
6/19/2018	5.51	6.32		6.78				6.91	5.15
6/20/2018			4.77		6.83	7.19			
6/21/2018							6.45		
9/25/2018		6.31		6.75					5.13
9/26/2018	5.32		4.65					6.8	
9/27/2018					6.64	7.21	6.48		
11/6/2018				6.92			6.18	5.99	5.08
11/7/2018	5.72	6.3	4.99		6.6	6.91			
3/24/2019		6.4		6.59	6.61	6.98	6.39	6.62	
3/25/2019	5.75		5.13						5.05
8/26/2019				6.62					
8/27/2019	5.58	6.24	4.88					6.23	
8/28/2019					6.69	6.87	6.35		4.87
10/15/2019		6.19		6.58					
10/16/2019	5.72		4.89		6.64			6.54	5.05
10/17/2019						6.86	6.4		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019	5.77				6.58		6.27		
11/21/2019				6.67				6.44	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	5.45								
3/27/2020		6.33	5.12	6.59				6.93	5.09
3/28/2020					6.6	6.8	6.35		
6/16/2020						6.87	6.33		
10/12/2020		6.35							5

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/13/2020	5.69		5.17	6.56				6.34	
10/14/2020						6.93	6.32		
10/15/2020					6.52				
1/4/2021					6.66				
3/2/2021		6.34		6.55					
3/3/2021	5.81		5.71					6.58	5.37
3/4/2021					6.52	6.94	6.33		
7/1/2021				6.64					
9/13/2021		6.24		6.3					
9/14/2021	5.13		4.69		6.67	6.94	6.28	6.77	5.5
3/1/2022					6.87	7.24			
3/2/2022	5.32						6.41		5.11
3/3/2022		6.51	4.88	6.49				6.26	
6/28/2022						7.28			
9/20/2022						7.29			
9/21/2022	4.95	6.3	4.91	6.61	6.93		6.27	6.72	4.97
2/28/2023		6.28						6.62	
3/1/2023	4.91		4.76						4.78
3/2/2023				6.54 (D)	6.55	7.38	6.28		
9/12/2023	4.54	6.43	4.45	6.68	6.81				
9/13/2023							6.53	6.55	4.92
9/14/2023						7.3			
3/19/2024		6.55						6.38	
3/20/2024	5.04			6.72					4.18
3/21/2024			5.1		6.66	7.02	6.31		
9/10/2024		6.44						6.11	5.19
9/11/2024	5.01		5.41	6.66	6.94		6.53		
9/12/2024						7.2			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.06					
6/1/2017		5.68				
6/2/2017			5.31			
8/2/2017	5	5.2	5.05			
8/15/2017						
8/16/2017	4.98					
8/17/2017		5.31	5.52			
4/4/2018		4.74	5.45			
4/5/2018	5.02					
5/8/2018		4.78	5.54			
5/9/2018	4.96					
6/19/2018	5.02		5.6			
6/20/2018		4.79				
6/21/2018						
9/25/2018						
9/26/2018	5.06		5.17			
9/27/2018		5.14				
11/6/2018		4.9				
11/7/2018	5.03		5.47			
3/24/2019			5.4			
3/25/2019	5.08	4.93	5.4			
8/26/2019						
8/27/2019		5.05	5.35			
8/28/2019	4.99					
10/15/2019		4.89	5.32			
10/16/2019	4.98					
10/17/2019						
11/7/2019				5.21	3.79	4.25
11/18/2019						4.12
11/19/2019	5.11			5.15	3.78	
11/20/2019		5.03				
11/21/2019						
12/4/2019				5.28	3.87	
12/5/2019						4.17
12/17/2019				4.96		
12/18/2019					3.76	4.2
1/8/2020				5.04	3.77	
1/9/2020						4.19
1/21/2020				5.1	3.73	4.28
2/4/2020				5.15	3.72	4.26
2/13/2020				5.07	3.75	4.2
3/26/2020						
3/27/2020	5.12		5.3	5.14	3.81	4.34
3/28/2020		5.27				
6/16/2020						
10/12/2020						4.29

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/13/2020	5.03	5.25	5.02	5.04	3.72	
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			5.16			
3/3/2021	5.06			5.1	3.76	4.37
3/4/2021		5.31				
7/1/2021						
9/13/2021						
9/14/2021	5.04	5.09	5.39	5.31	3.72	4.28
3/1/2022				5.38	3.69	
3/2/2022	5.16		5.37			4.33
3/3/2022		4.98				
6/28/2022						
9/20/2022				5.14	3.63	4.47
9/21/2022	5.14	5.34	5.23			
2/28/2023				5.08	3.7 (D)	4.42
3/1/2023	5.1 (D)	4.93				
3/2/2023			4.45			
9/12/2023			4.4			
9/13/2023		5.29		5.05	3.67	
9/14/2023	5.02					4.17
3/19/2024	4.62			4.97		4.42
3/20/2024		4.41	5.23			
3/21/2024					3.67	
9/10/2024		5.1				
9/11/2024	5.43		4.99	4.61	3.58	4.04
9/12/2024						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	17	6.4	24	4.3					
8/31/2016					290	21	37		
10/25/2016								84	
11/30/2016	33	4.5	26	7.6	240	19	63	52	
2/15/2017	83	37	30	3				190	
2/16/2017					220	22	90		
5/31/2017		61		2.5				260	40
6/1/2017	51		24						
6/2/2017					500	28	210		
8/2/2017									34
8/15/2017				3.2				210	24
8/16/2017	36	130							
8/17/2017			26		510	69	80		
4/4/2018									33.9
4/5/2018									
5/8/2018									35.7
5/9/2018									
6/19/2018	50.3	498		1.6				218	23.7
6/20/2018			31.2			33	46 (J)		
6/21/2018					481				
9/25/2018		790		1					25.6
9/26/2018	54.1		36.8					333 (D)	
9/27/2018					777	29.4	58.5 (J)		
11/6/2018		875			926			182	25.2
11/7/2018	45.6		35	0.41 (J)		734	41.3 (J)		
3/6/2019						1220 (J)			
3/24/2019		1170		1.5	1070	413	131	413	
3/25/2019	43		40.1						24.9
10/15/2019		<5		0.54 (J)					
10/16/2019	31.9		28.5				252	453	17.4
10/17/2019					1230	507			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					1550		132		
11/21/2019		1070						428	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	36.2								
3/27/2020		899	31.2	<5				504	23.4
3/28/2020					1090	701	63.8		
4/23/2020						552			
6/16/2020					961	663			
10/12/2020				<5					19.3
10/13/2020	32.3	695	26.8					378	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/14/2020		682			938	531 (D)			
10/15/2020							147		
1/4/2021							262		
3/2/2021		677		1.2					
3/3/2021	33.8		30.5					420	19.9
3/4/2021					982	596	82.2		
7/1/2021		693							
9/13/2021		680		<5					
9/14/2021	34.2		24.4		819	490	459	460	33.1
3/1/2022						440	143		
3/2/2022	30.8				702				19.5
3/3/2022		754	20.4	<5				324	
6/28/2022						213			
9/20/2022						320			
9/21/2022	39	270	24	<5	660		100	330	23
2/28/2023				1.33				334	
3/1/2023	45.3		25.8						21.4
3/2/2023		252			640	157	84.2		
9/12/2023	47.5	160	25.2	1.18			139		
9/13/2023					620			300	42
9/14/2023						263			
3/19/2024				1.7				312	
3/20/2024	45.4	207							34.5
3/21/2024			29.4		360	189	189		
9/10/2024				0.462				323	24.3
9/11/2024	42.1	180	23.2		296		148		
9/12/2024						271			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	46					
6/1/2017		42				
6/2/2017			13			
8/2/2017	43	120	14			
8/15/2017						
8/16/2017	41					
8/17/2017		110	14			
4/4/2018		70.6	13.4			
4/5/2018	33.4					
5/8/2018		61.4	14.8			
5/9/2018	36					
6/19/2018	35.5		15.5			
6/20/2018		25.3				
6/21/2018						
9/25/2018						
9/26/2018	39.6		23			
9/27/2018		63.4				
11/6/2018		136				
11/7/2018	35.8		22.2			
3/6/2019						
3/24/2019						
3/25/2019	34.2	137	22.4			
10/15/2019		105	17.9			
10/16/2019	24.4					
10/17/2019						
11/7/2019				379	1010	832
11/18/2019				737		
11/19/2019					1140	795
11/20/2019						
11/21/2019						
12/4/2019					1020	810
12/5/2019				351		
12/17/2019						535
12/18/2019				274	444 (J)	
1/8/2020					747	603
1/9/2020				254		
1/21/2020				254	798	611
2/4/2020				432	1120	599
2/13/2020				300	833	761
3/26/2020						
3/27/2020	28.6		14.6	219	700	836
3/28/2020		86.6				
4/23/2020						
6/16/2020						
10/12/2020				191		
10/13/2020	27.6	92.3	7.6		638	609

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			8			
3/3/2021	27.6			171	743	708
3/4/2021		99.1				
7/1/2021						
9/13/2021						
9/14/2021	30.4	96.2	16.7	134	659	995
3/1/2022					543	158
3/2/2022	25.7		16	186		
3/3/2022		50.6				
6/28/2022						
9/20/2022				160	750	740
9/21/2022	29	52	6.3			
2/28/2023				186	950	820
3/1/2023	27.4	44.2				
3/2/2023			8.12			
9/12/2023			6.48			
9/13/2023		27.1			832	1300
9/14/2023	28.8			165		
3/19/2024	28			167		810
3/20/2024		73.7	12.3			
3/21/2024					1190	
9/10/2024		103				
9/11/2024	26.2		5.75	149	852	781
9/12/2024						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	86	1310	99	1910					
8/31/2016					5100	4160	3620		
10/25/2016								2900	
11/30/2016	131	1050	111	1910	4680	3950	4030	3970	
2/15/2017	212	1440	170	1870				3820	
2/16/2017					5080	4600	4080		
5/31/2017		1740		1920				5050	257
6/1/2017	103		98						
6/2/2017					8000	4470	5560		
8/2/2017									183
8/15/2017				1840				4820	90
8/16/2017	65	3010							
8/17/2017			84		8320	5450	4620		
4/4/2018									197
4/5/2018									
5/8/2018									225
5/9/2018									
6/19/2018	142	8630		1820				5640	112
6/20/2018			123			4940	3370		
6/21/2018					7500				
9/25/2018		10700		1760					137
9/26/2018	133		117					6770 (D)	
9/27/2018					10200	4480	2360		
11/6/2018		11100			11000			4160	89
11/7/2018	121		120	1800		15100	2230		
3/6/2019						19000			
3/24/2019		14200		1770	13700	13700	1450	6840	
3/25/2019	116		101						74
10/15/2019		15400		1730					
10/16/2019	104		95				2860	7740	82
10/17/2019					13200	16100			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					16700		2640		
11/21/2019		15800						7720	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	114								
3/27/2020		16400	110	1970				10200	87
3/28/2020					18300	18800	1470		
6/16/2020					17900	17800			
10/12/2020				1560					94
10/13/2020	113	15600	115					8750	
10/14/2020					18400	15200			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-07	MCM-06	MCM-05	MCM-17	MCM-11 (bg)
10/15/2020							5100		
1/4/2021							7750		
3/2/2021		12000		1430					
3/3/2021	99		122					8830	66
3/4/2021					17100	14200	1700		
7/1/2021		11200							
9/13/2021		11400		1450					
9/14/2021	66		<25		13400	11800	8020	8820	191
3/1/2022						9040	3780		
3/2/2022	97				12600				124
3/3/2022		11500	104	1400				8120	
6/28/2022						6140			
9/20/2022						3900			
9/21/2022	100	7400	78	1300	9400		2100	6200	110
2/28/2023				1290				6810	
3/1/2023	78		56						67
3/2/2023		3280			10500	3120	1710		
9/12/2023	80	2720	42	1230			2940		
9/13/2023					7440			6310	274
9/14/2023						4240			
3/19/2024				1210				5920	
3/20/2024	84	2480							137
3/21/2024			51		6050	3820	3320		
9/10/2024				1230				5490	79
9/11/2024	70	2480	54		4640		3020		
9/12/2024						5340			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	123					
6/1/2017		97				
6/2/2017			69			
8/2/2017	136	538	35			
8/15/2017						
8/16/2017	124					
8/17/2017		445	51			
4/4/2018		365	90			
4/5/2018	128					
5/8/2018		304	89			
5/9/2018	127					
6/19/2018	143		110			
6/20/2018		114				
6/21/2018						
9/25/2018						
9/26/2018	132		124			
9/27/2018		255				
11/6/2018		388				
11/7/2018	134		125			
3/6/2019						
3/24/2019						
3/25/2019	111	327	98			
10/15/2019		237	107			
10/16/2019	96					
10/17/2019						
11/7/2019				4140	10900	13500
11/18/2019				4030		
11/19/2019					10000	13300
11/20/2019						
11/21/2019						
12/4/2019					11000	13200
12/5/2019				3840		
12/17/2019					9860	
12/18/2019				3880		12500
1/8/2020					9760	12300
1/9/2020				3520		
1/21/2020				3280	10100	12000
2/4/2020				3220	10600	12300
2/13/2020				3580	10900	12400
3/26/2020						
3/27/2020	119		110	3090	14300	14600
3/28/2020		284				
6/16/2020						
10/12/2020				2920		
10/13/2020	118	<25	63		6600	13900
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/25/2024 8:30 PM View: Interwell Prediction Limits

Plant McManus Client: Southern Company Data: McManus AP

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/15/2020						
1/4/2021						
3/2/2021			40			
3/3/2021	84			2620	11000	11400
3/4/2021		285				
7/1/2021						
9/13/2021						
9/14/2021	76	193	96	2190	14600	10300
3/1/2022					4050	10500
3/2/2022	94		103	3100		
3/3/2022		146				
6/28/2022						
9/20/2022				2000	10000	8600
9/21/2022	90	180	38			
2/28/2023				2090	10400	8720
3/1/2023	73	142				
3/2/2023			35			
9/12/2023			20			
9/13/2023		51			15500	10300
9/14/2023	76			2040		
3/19/2024	50			1960	9800	
3/20/2024		255	65			
3/21/2024						7330
9/10/2024		316				
9/11/2024	64		28	1530	9180	8630
9/12/2024						

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:32 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.006044	66	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.007634	-55	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001347	38	81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.01214	39	81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	-0.001212	-12	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-16 (bg)	-0.004519	-81	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.01929	-34	-87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**MCM-18 (bg)**	**-0.01391**	**-84**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.008783	-14	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01907	-39	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.07198	-70	-92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-02 (bg)	0.0169	69	92	No	22	0	n/a	0.01	NP
pH, Field (SU)	MCM-05	-0.01522	-35	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-06	0.00953	26	98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.03042	-76	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-11 (bg)	-0.05008	-85	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.009779	-27	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05993**	**-130**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-15 (bg)**	**-0.06946**	**-105**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-16 (bg)	-0.002819	-7	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**MCM-17**	**-0.06872**	**-101**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-18 (bg)	0.05171	55	68	No	18	0	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02771	-37	-68	No	18	0	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.03555**	**-108**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**

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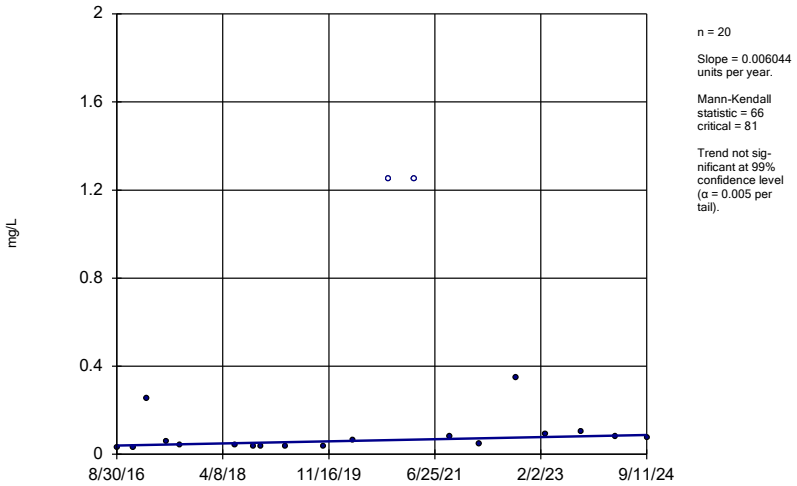
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 20

Slope = 0.006044 units per year.

Mann-Kendall statistic = 66
critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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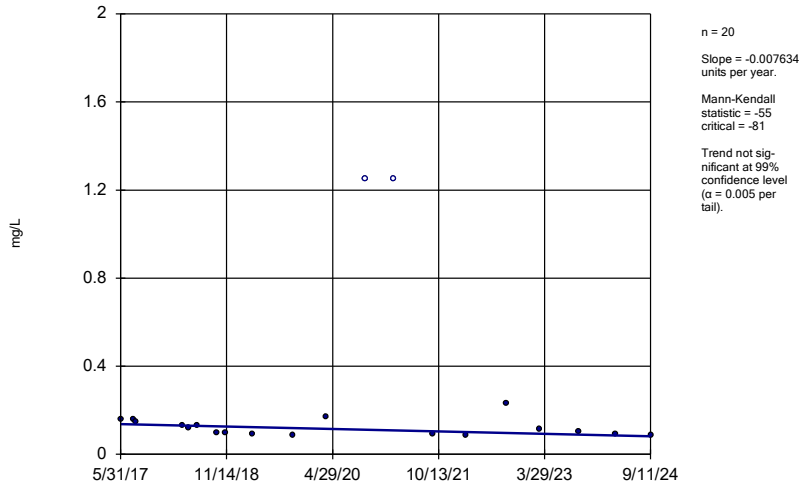
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 20

Slope = -0.007634 units per year.

Mann-Kendall statistic = -55
critical = -81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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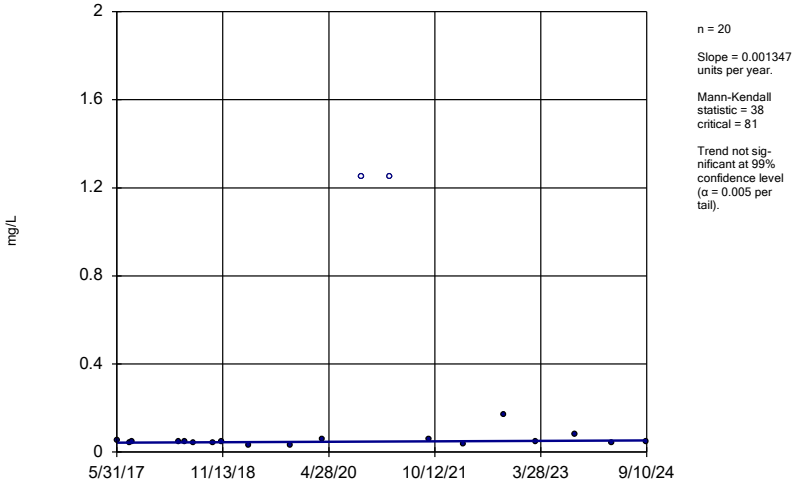
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 20

Slope = 0.001347 units per year.

Mann-Kendall statistic = 38
critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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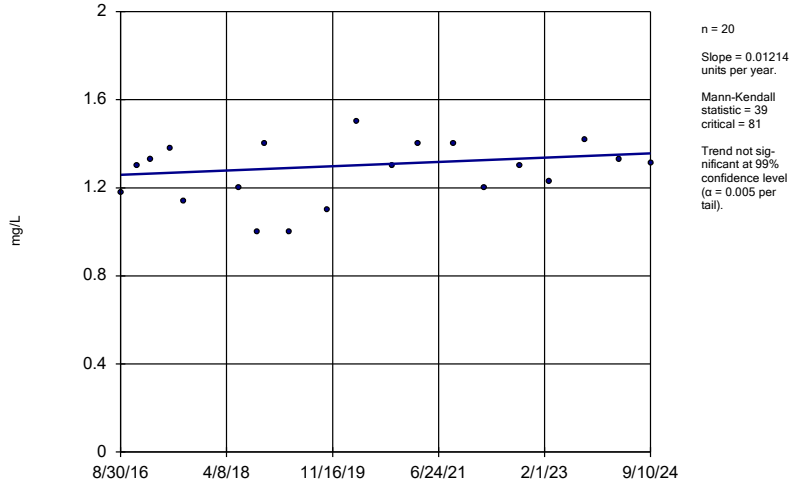
Sen's Slope Estimator

MCM-12



n = 20

Slope = 0.01214 units per year.

Mann-Kendall statistic = 39
critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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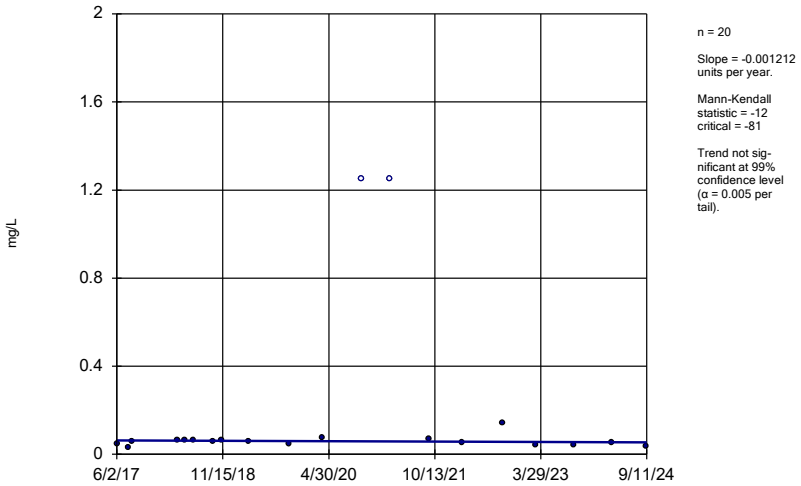
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 20

Slope = -0.001212 units per year.

Mann-Kendall statistic = -12
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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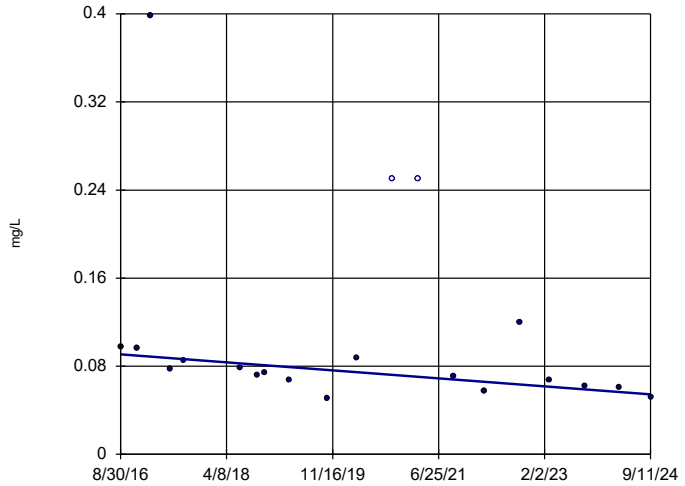
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 20

Slope = -0.004519 units per year.

Mann-Kendall statistic = -81
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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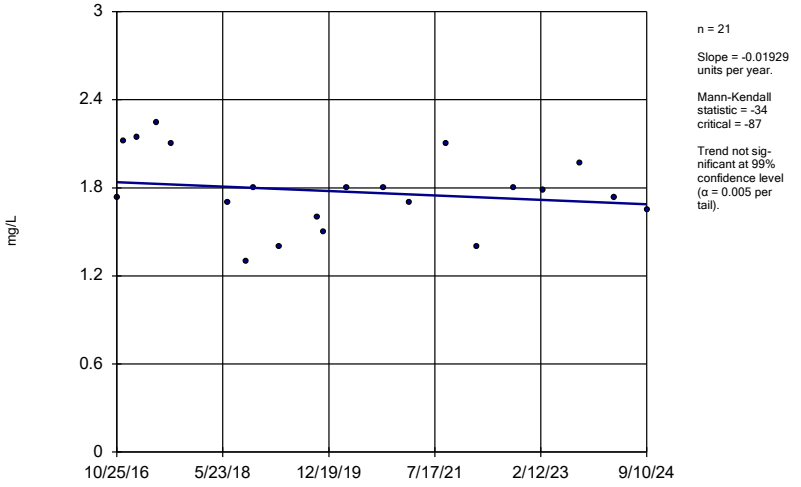
Sen's Slope Estimator

MCM-17



n = 21

Slope = -0.01929 units per year.

Mann-Kendall statistic = -34
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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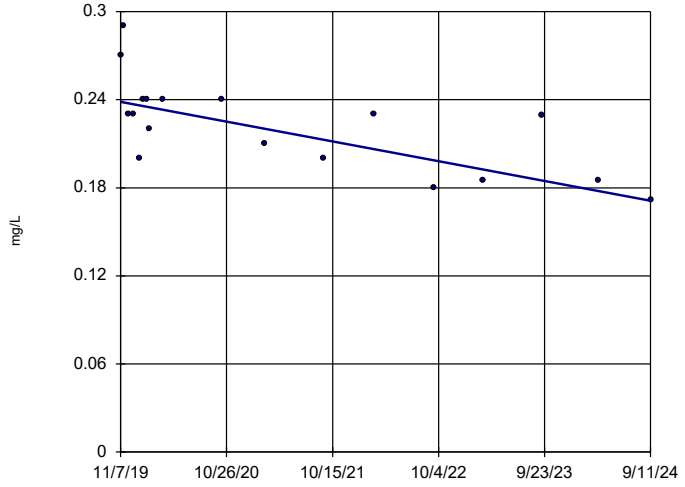
Sen's Slope Estimator

MCM-18 (bg)



n = 18

Slope = -0.01391 units per year.

Mann-Kendall statistic = -84
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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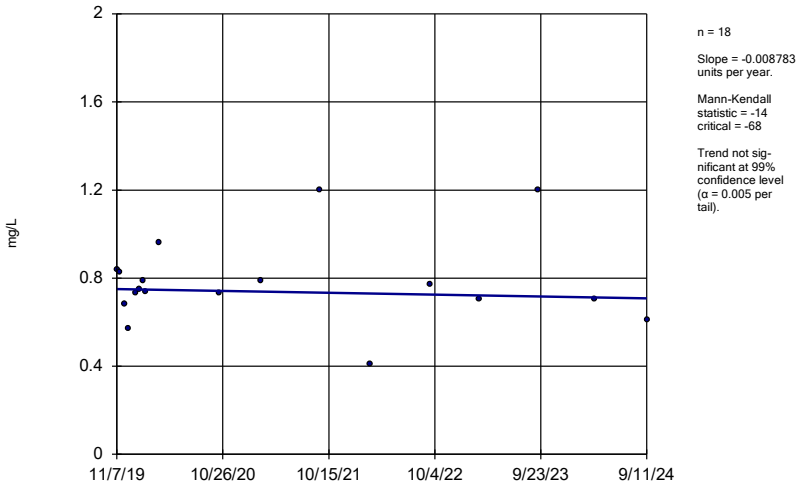
Sen's Slope Estimator

MCM-19 (bg)



n = 18

Slope = -0.008783 units per year.

Mann-Kendall statistic = -14 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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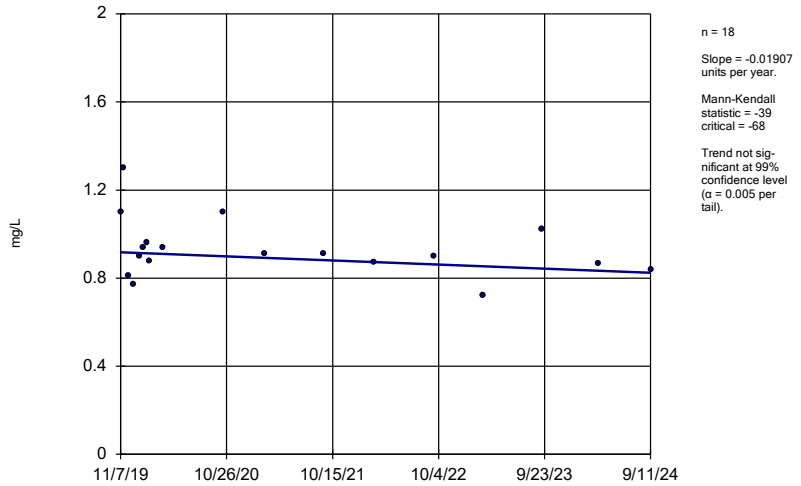
Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = -0.01907 units per year.

Mann-Kendall statistic = -39 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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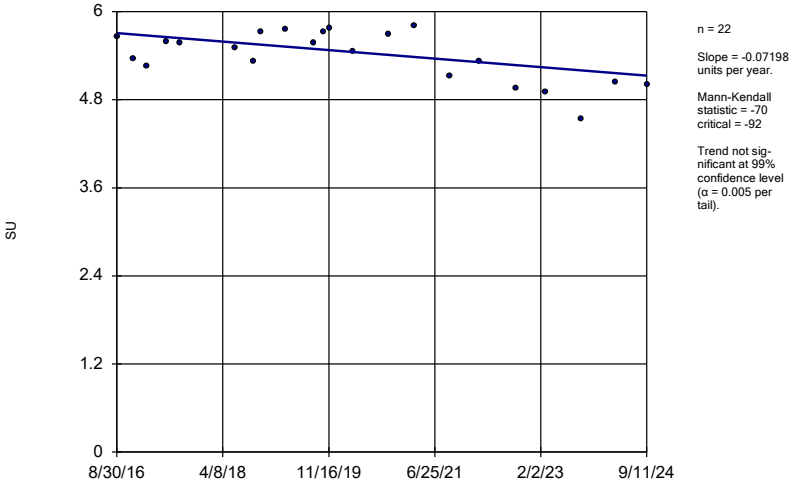
Sen's Slope Estimator

MCM-01 (bg)



n = 22

Slope = -0.07198 units per year.

Mann-Kendall statistic = -70 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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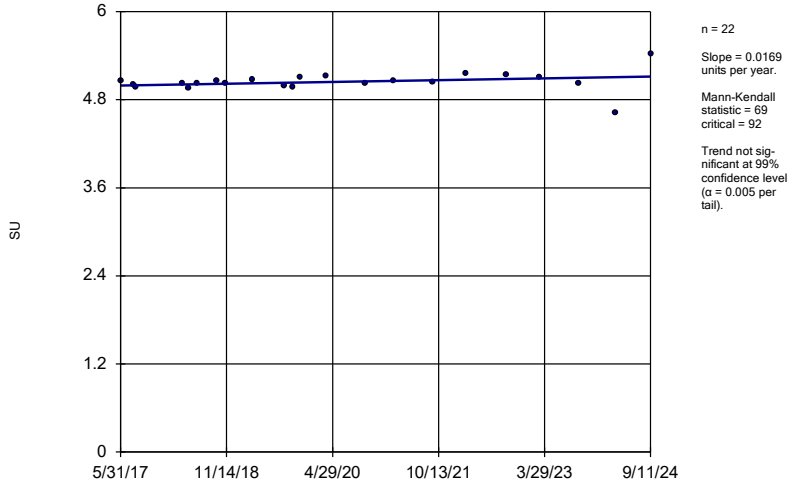
Sen's Slope Estimator

MCM-02 (bg)



n = 22

Slope = 0.0169 units per year.

Mann-Kendall statistic = 69 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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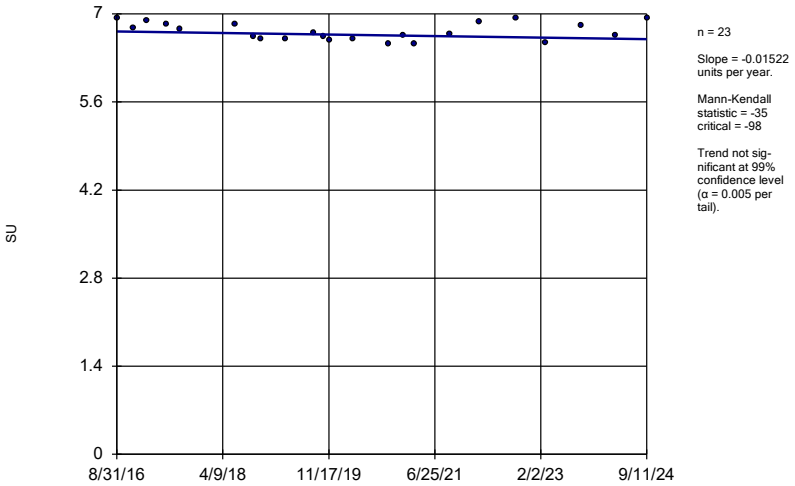
Sen's Slope Estimator

MCM-05



n = 23

Slope = -0.01522 units per year.

Mann-Kendall statistic = -35
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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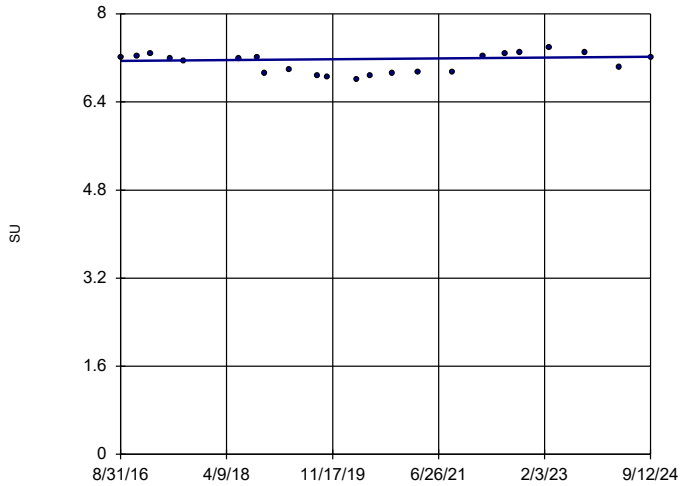
Sen's Slope Estimator

MCM-06



n = 23

Slope = 0.00953 units per year.

Mann-Kendall statistic = 26
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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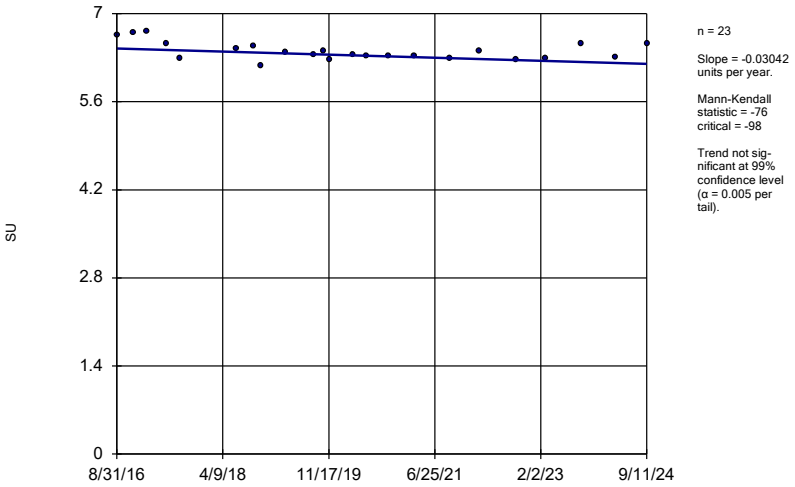
Sen's Slope Estimator

MCM-07



n = 23

Slope = -0.03042 units per year.

Mann-Kendall statistic = -76
critical = -98

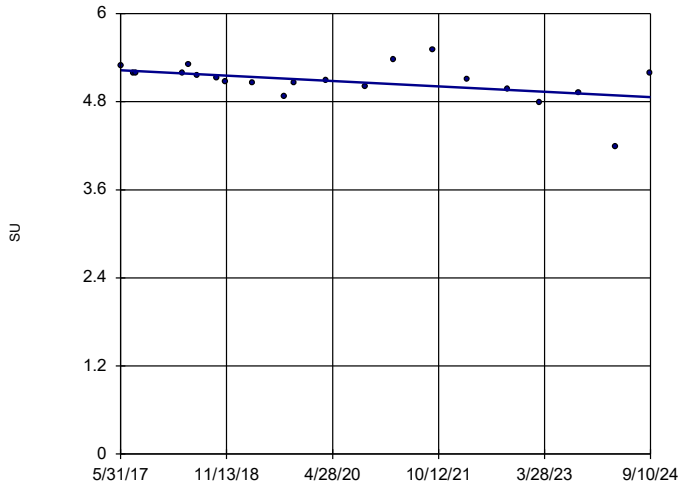
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-11 (bg)



n = 21

Slope = -0.05008 units per year.

Mann-Kendall statistic = -85
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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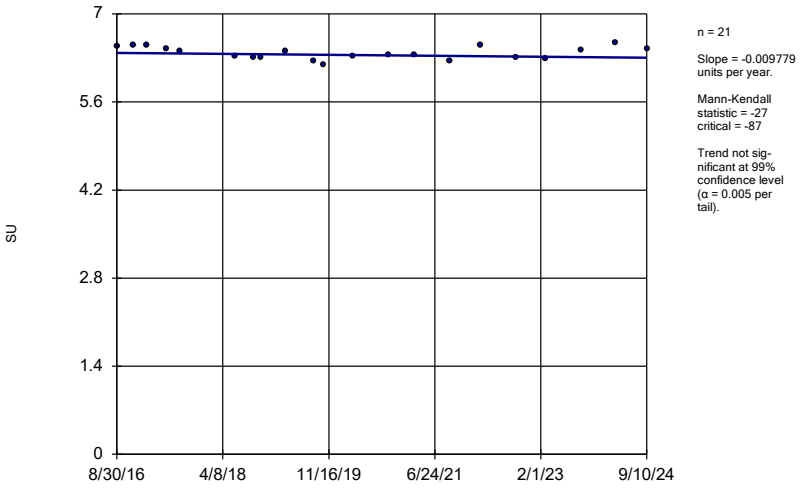
Sen's Slope Estimator

MCM-12



n = 21

Slope = -0.009779 units per year.

Mann-Kendall statistic = -27 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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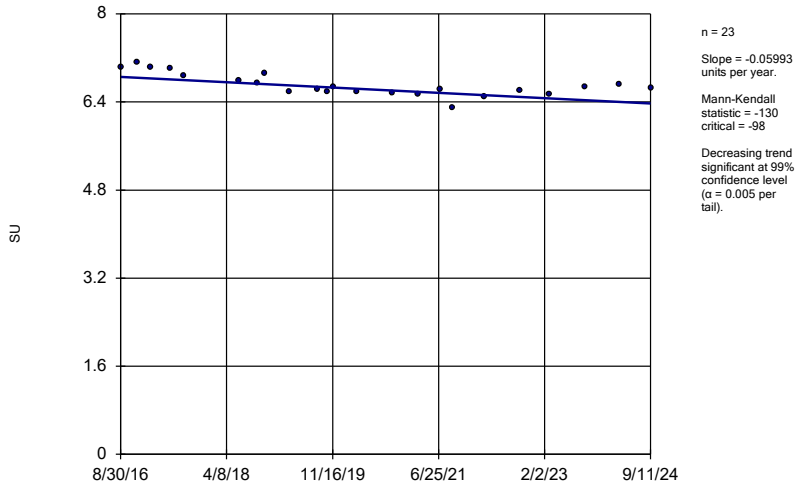
Sen's Slope Estimator

MCM-14



n = 23

Slope = -0.05993 units per year.

Mann-Kendall statistic = -130 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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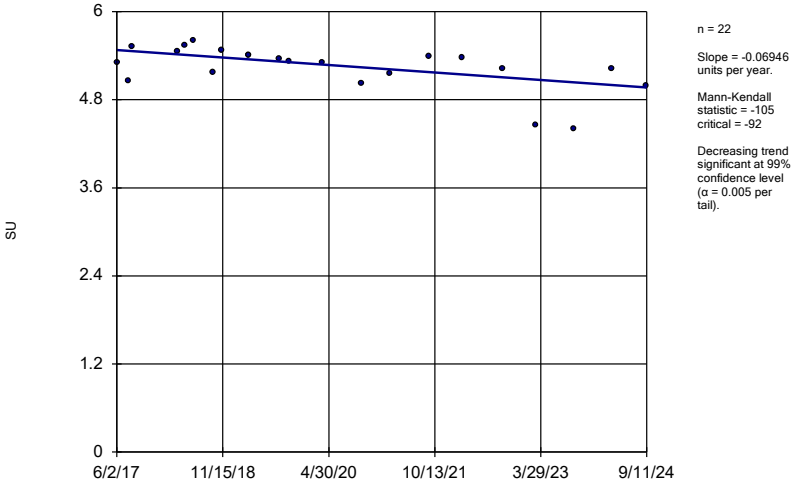
Sen's Slope Estimator

MCM-15 (bg)



n = 22

Slope = -0.06946 units per year.

Mann-Kendall statistic = -105 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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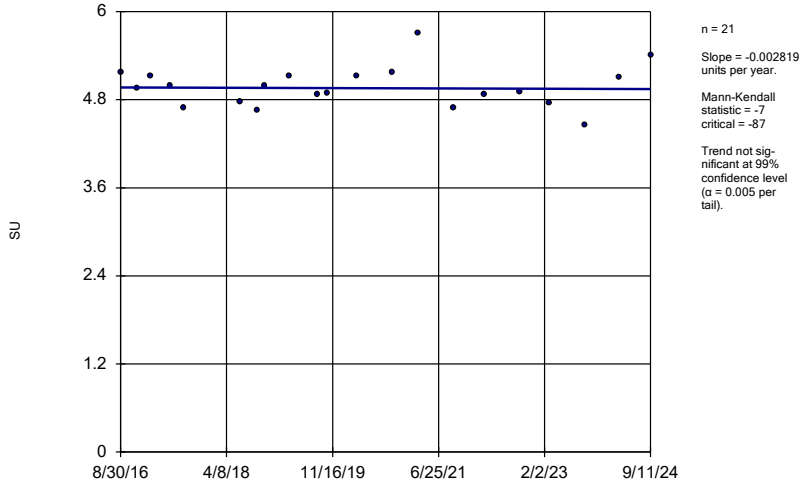
Sen's Slope Estimator

MCM-16 (bg)



n = 21

Slope = -0.002819 units per year.

Mann-Kendall statistic = -7 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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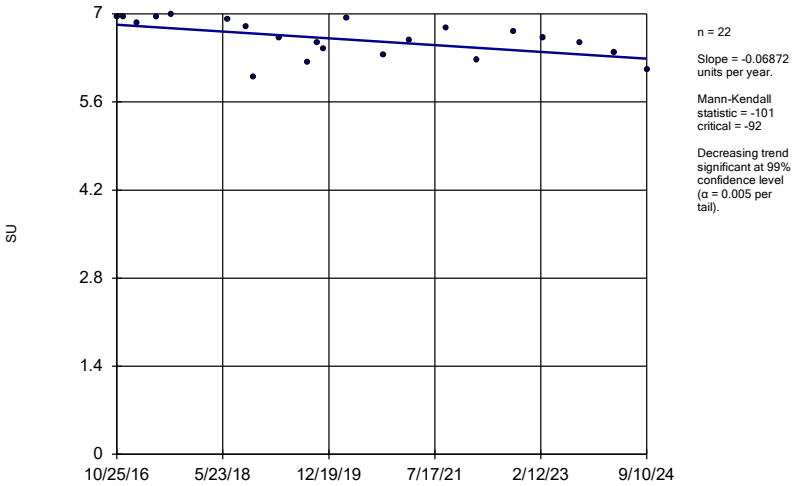
Sen's Slope Estimator

MCM-17



n = 22

Slope = -0.06872 units per year.

Mann-Kendall statistic = -101
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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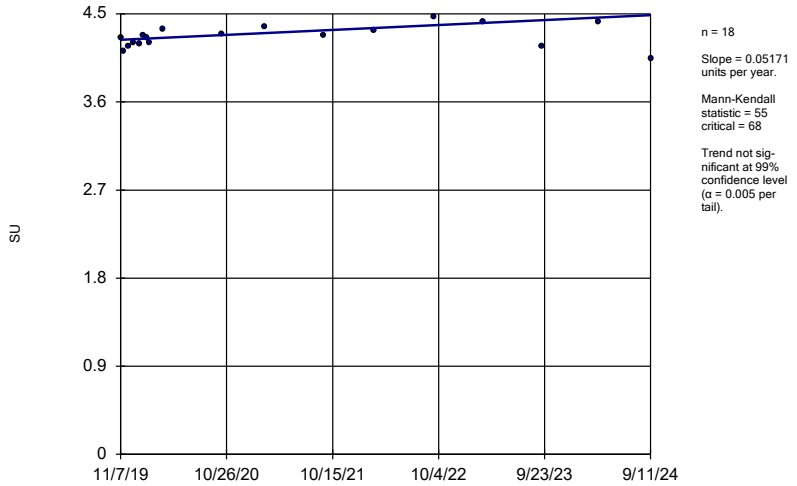
Sen's Slope Estimator

MCM-18 (bg)



n = 18

Slope = 0.05171 units per year.

Mann-Kendall statistic = 55
critical = 68

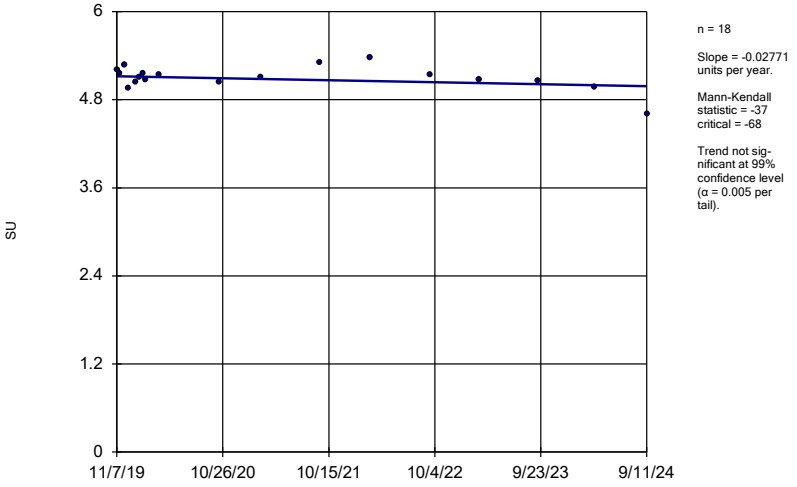
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-19 (bg)



n = 18

Slope = -0.02771 units per year.

Mann-Kendall statistic = -37
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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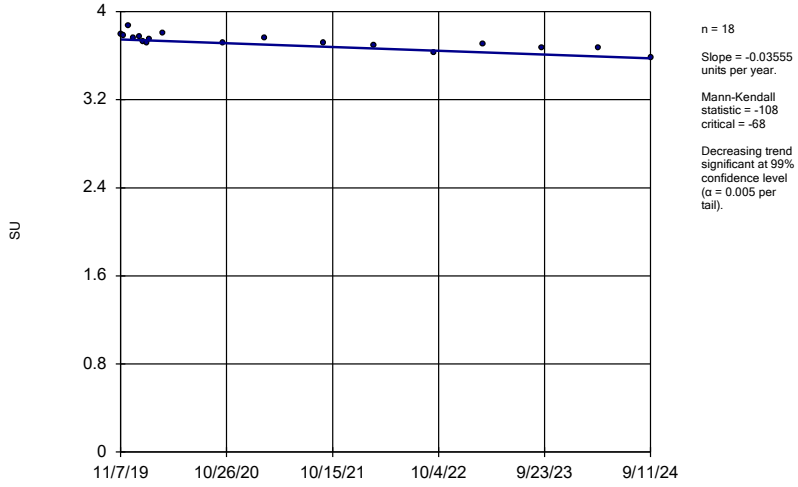
Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = -0.03555 units per year.

Mann-Kendall statistic = -108
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/25/2024 8:31 PM View: Appendix III Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

FIGURE F.

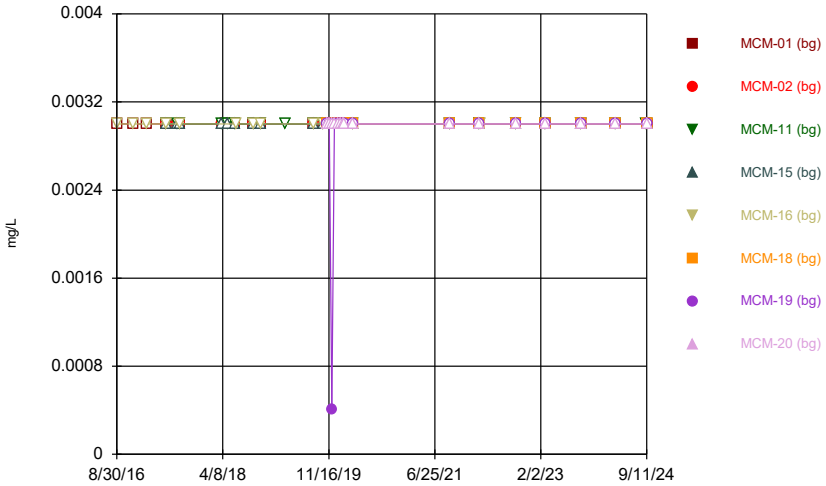
Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP Printed 11/25/2024, 8:39 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	139	n/a	n/a	99.28	n/a	n/a	0.0008009	NP Inter(NDs)
Arsenic (mg/L)	0.032	157	n/a	n/a	18.47	n/a	n/a	0.0003181	NP Inter(normality)
Barium (mg/L)	0.22	155	n/a	n/a	0	n/a	n/a	0.0003525	NP Inter(normality)
Beryllium (mg/L)	0.021	154	n/a	n/a	30.52	n/a	n/a	0.0003711	NP Inter(normality)
Cadmium (mg/L)	0.0043	137	n/a	n/a	97.08	n/a	n/a	0.0008874	NP Inter(NDs)
Chromium (mg/L)	0.011	139	n/a	n/a	59.71	n/a	n/a	0.0008009	NP Inter(NDs)
Cobalt (mg/L)	0.036	154	n/a	n/a	76.62	n/a	n/a	0.0003711	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	34.9	145	n/a	n/a	0	n/a	n/a	0.0005887	NP Inter(normality)
Fluoride (mg/L)	3.98	158	n/a	n/a	49.37	n/a	n/a	0.0003022	NP Inter(normality)
Lead (mg/L)	0.005	154	n/a	n/a	88.31	n/a	n/a	0.0003711	NP Inter(NDs)
Lithium (mg/L)	0.0493	151	n/a	n/a	59.6	n/a	n/a	0.0004328	NP Inter(NDs)
Mercury (mg/L)	0.0007	138	n/a	n/a	97.83	n/a	n/a	0.0008431	NP Inter(NDs)
Molybdenum (mg/L)	0.01	138	n/a	n/a	89.86	n/a	n/a	0.0008431	NP Inter(NDs)
Selenium (mg/L)	0.0492	131	n/a	n/a	74.81	n/a	n/a	0.001207	NP Inter(NDs)
Thallium (mg/L)	0.002	138	n/a	n/a	97.1	n/a	n/a	0.0008431	NP Inter(NDs)

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

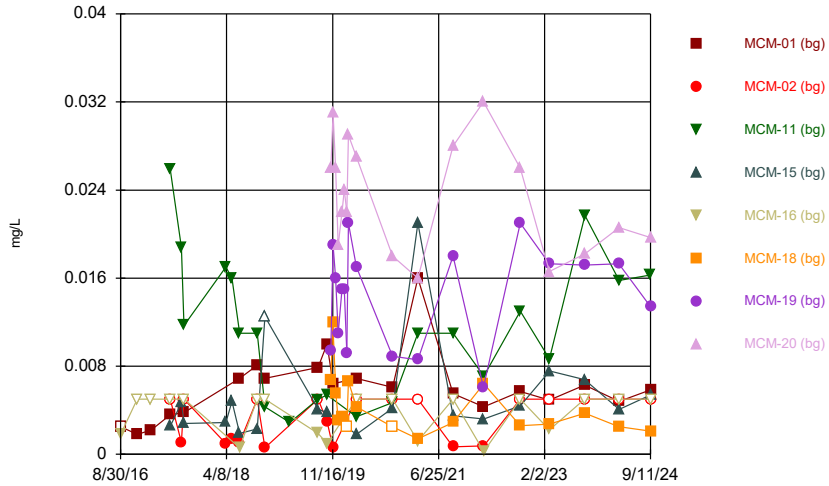
Time Series



Constituent: Antimony Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

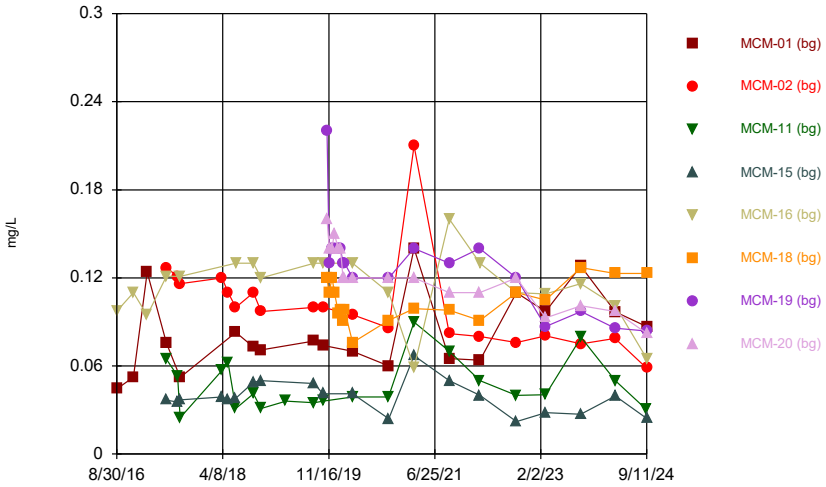
Time Series



Constituent: Arsenic Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Barium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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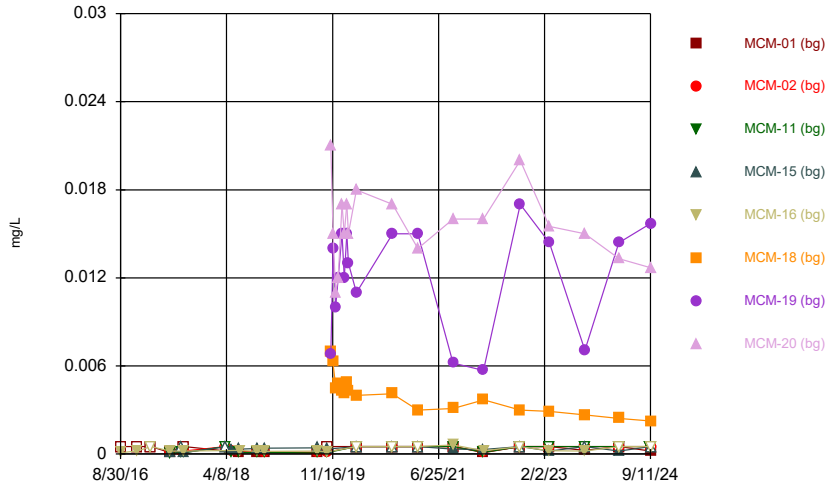
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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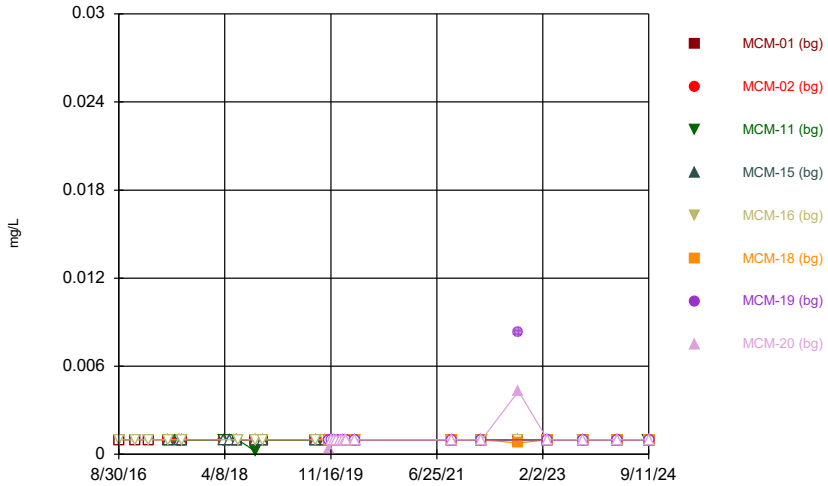
Hollow symbols indicate censored values.

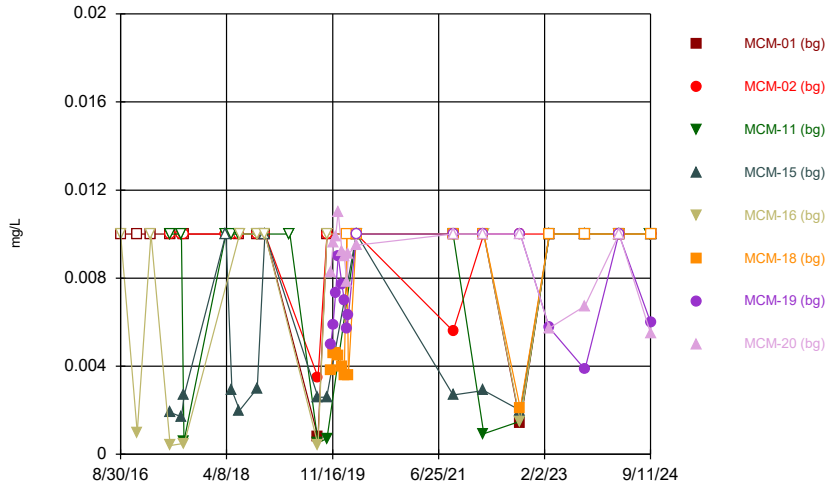
Time Series



Constituent: Cadmium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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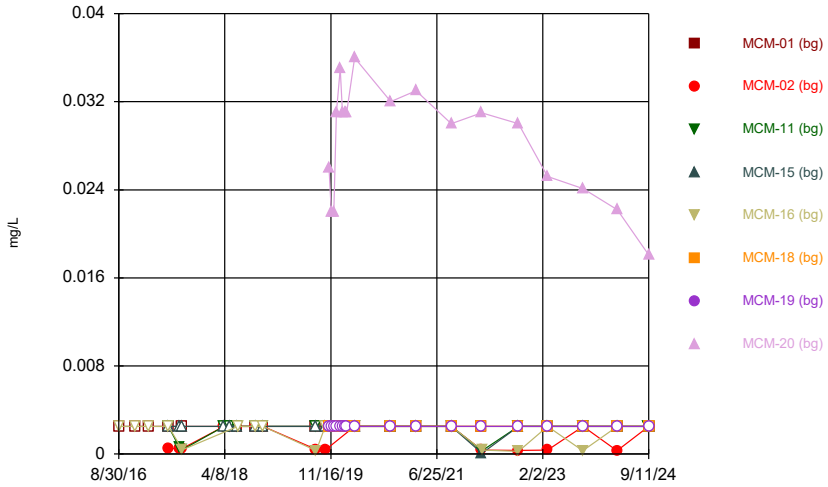
Hollow symbols indicate censored values.

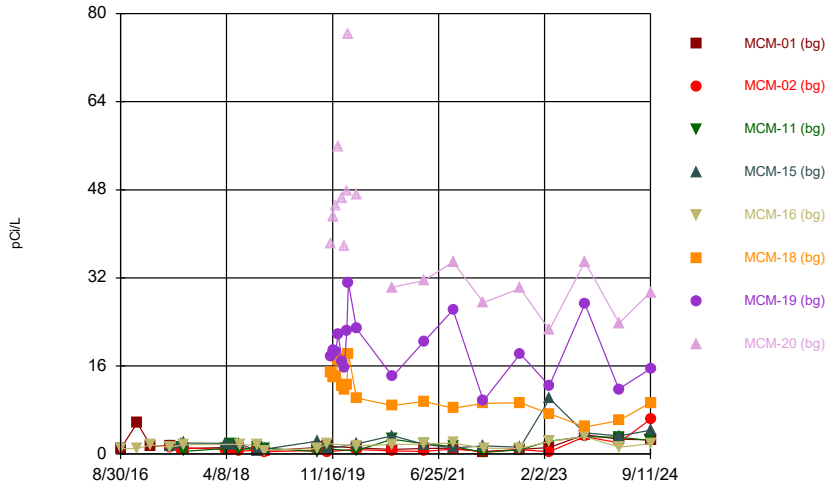
Time Series



Constituent: Cobalt Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limit
Plant McManus Client: Southern Company Data: McManus AP

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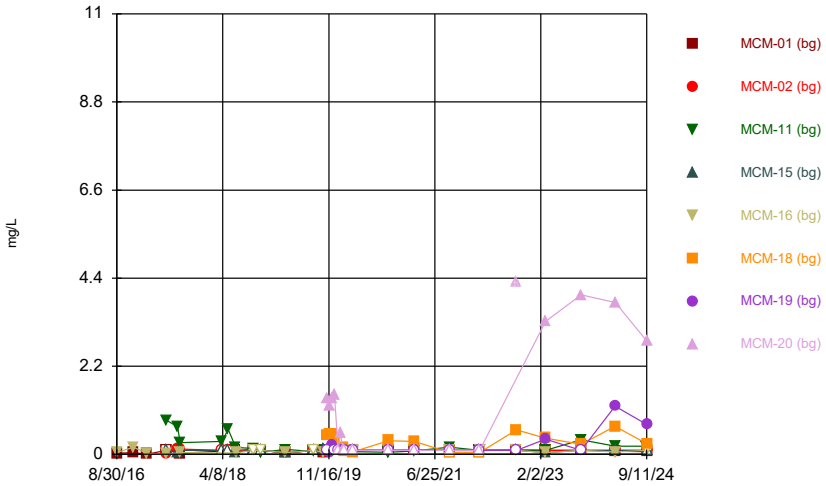
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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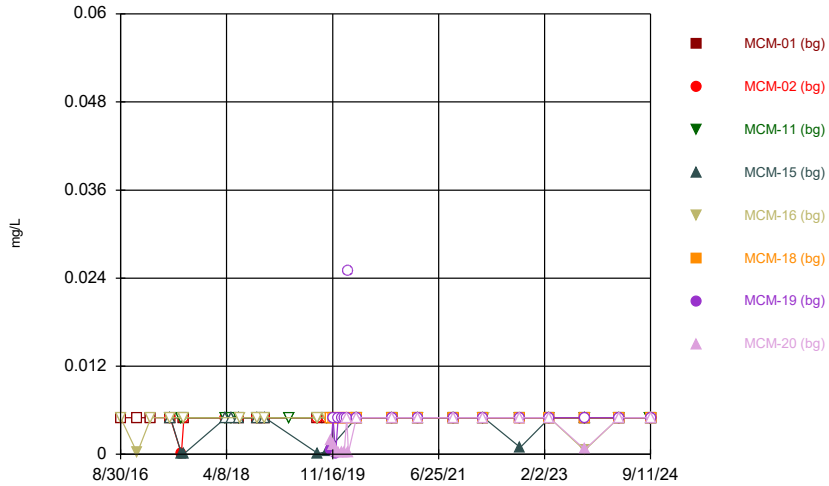
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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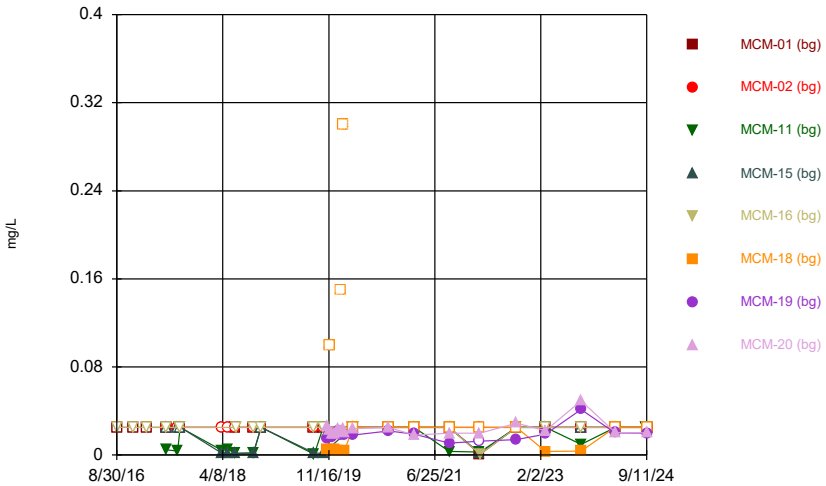
Hollow symbols indicate censored values.

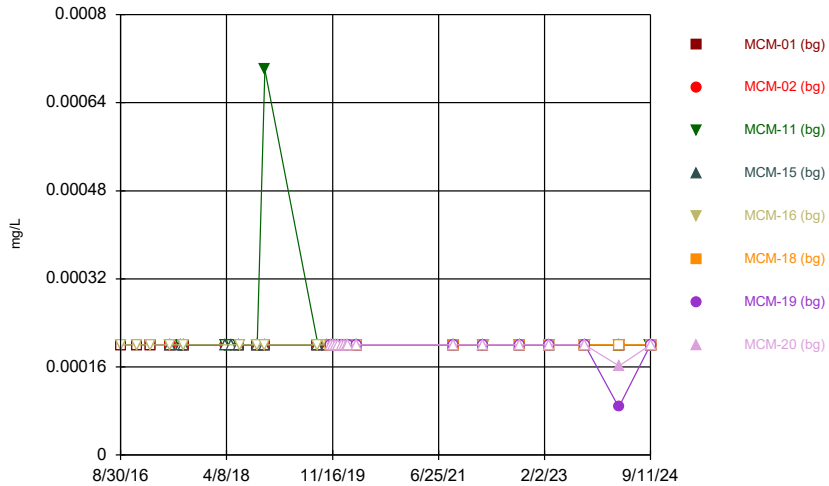
Time Series



Constituent: Lithium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

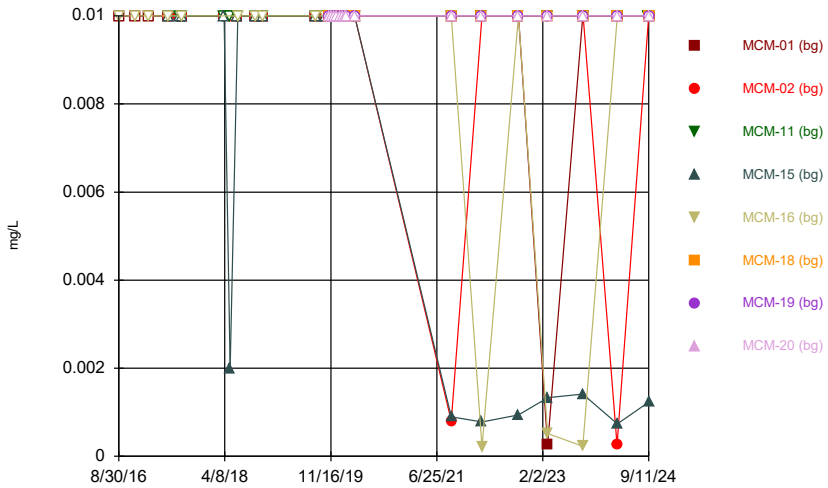
Time Series



Constituent: Mercury Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

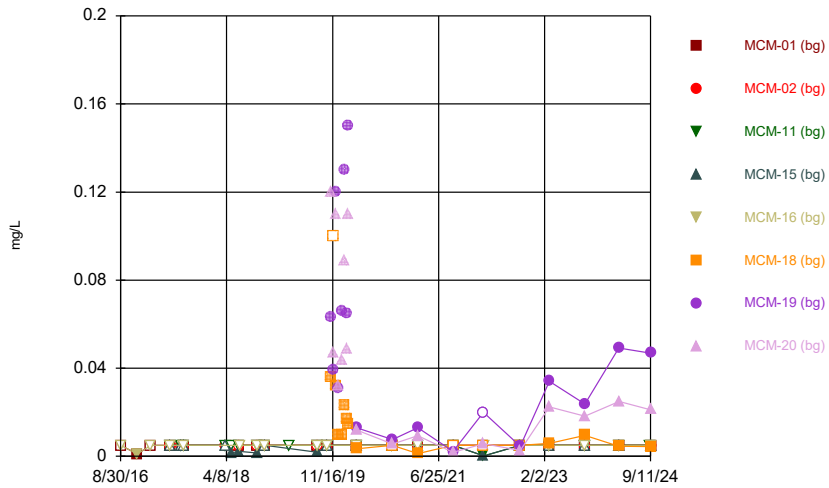
Time Series



Constituent: Molybdenum Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

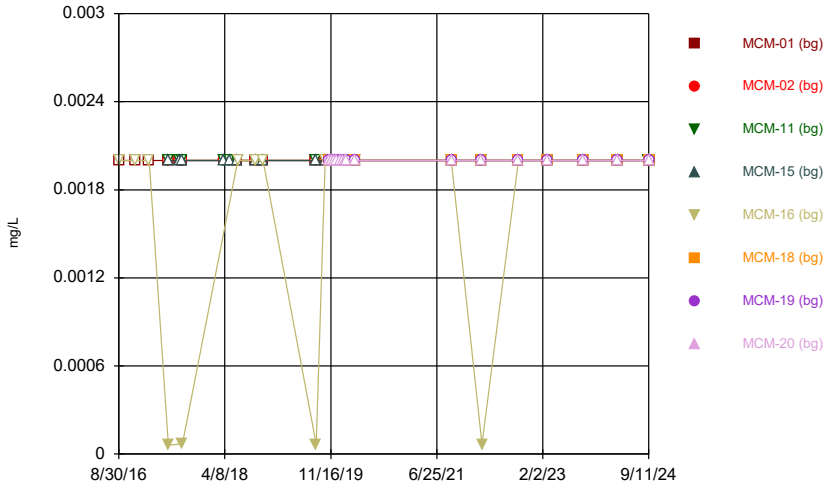
Time Series



Constituent: Selenium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

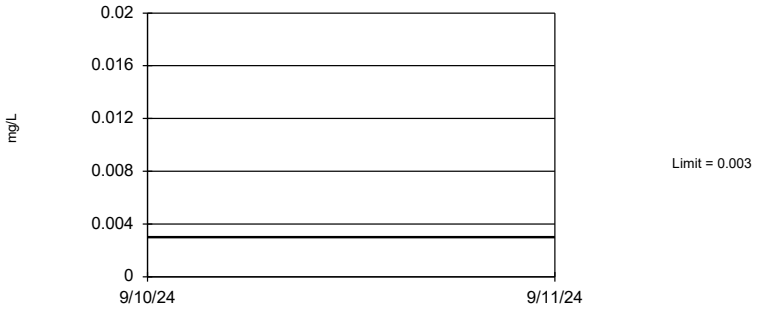


Constituent: Thallium Analysis Run 11/25/2024 8:37 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 139 background values. 99.28% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008009.

Constituent: Antimony Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

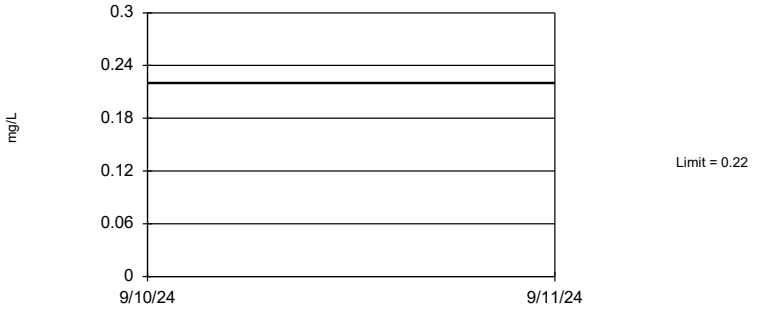
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 157 background values. 18.47% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003181.

Constituent: Arsenic Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



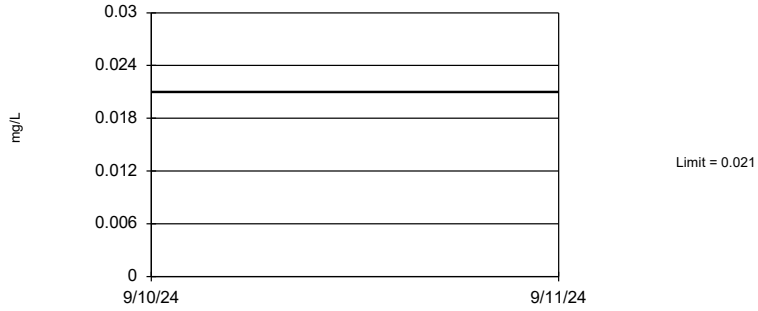
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 155 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003525.

Constituent: Barium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 30.52% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Beryllium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

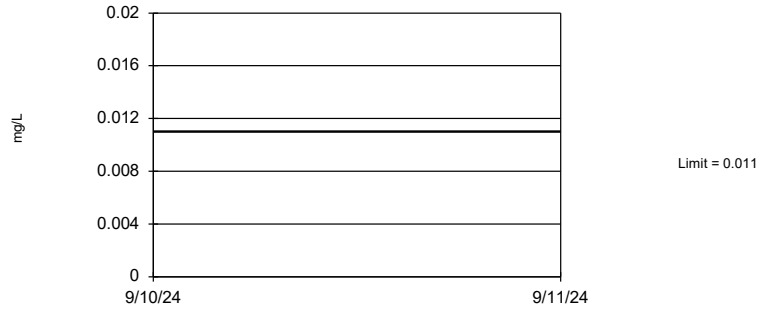
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 137 background values. 97.08% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008874.

Constituent: Cadmium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 139 background values. 59.71% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008009.

Constituent: Chromium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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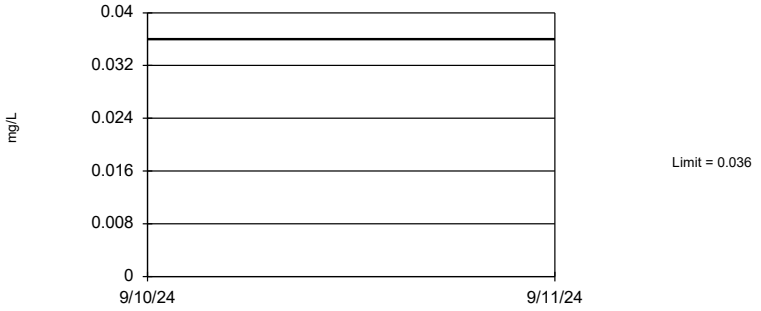
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 154 background values. 76.62% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Cobalt Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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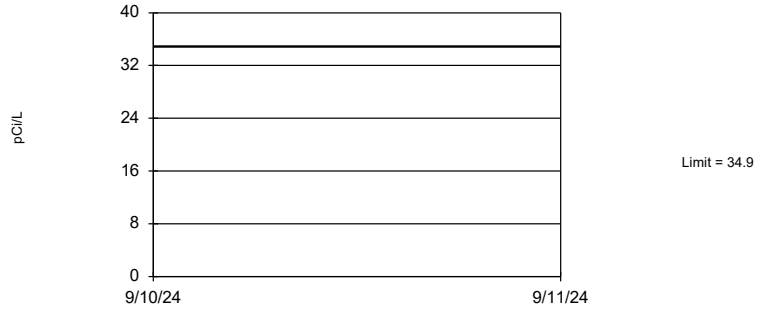
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 145 background values. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005887.

Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limit
Plant McManus Client: Southern Company Data: McManus AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 158 background values. 49.37% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003022.

Constituent: Fluoride Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 154 background values. 88.31% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Lead Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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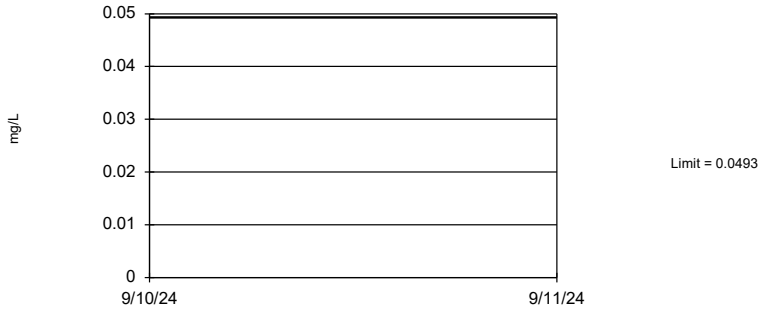
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 151 background values. 59.6% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0004328.

Constituent: Lithium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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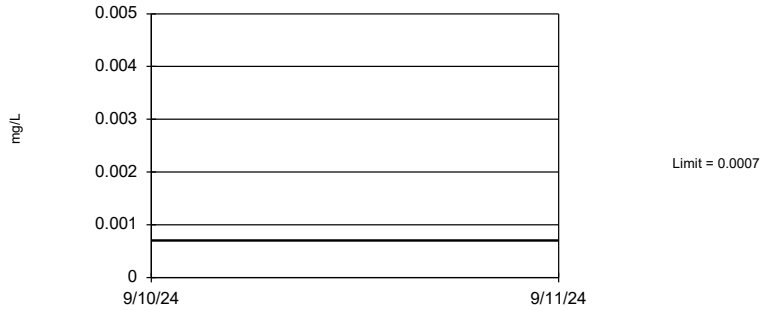
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 138 background values. 97.83% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008431.

Constituent: Mercury Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 138 background values. 89.86% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008431.

Constituent: Molybdenum Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

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Tolerance Limit

Interwell Non-parametric

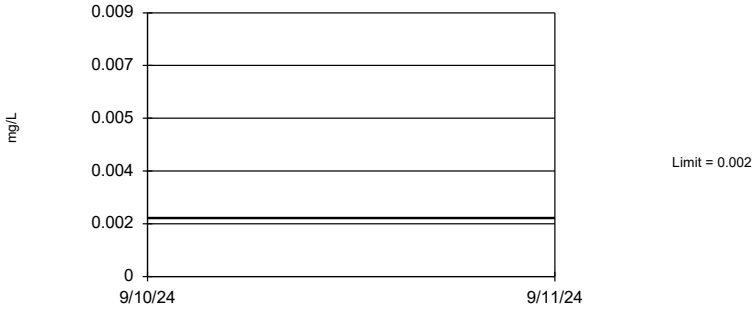
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 131 background values. 74.81% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001207.

Constituent: Selenium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 138 background values. 97.1% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0008431.

Constituent: Thallium Analysis Run 11/25/2024 8:38 PM View: Upper Tolerance Limits
Plant McManus Client: Southern Company Data: McManus AP

FIGURE G.

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.049	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	19	0.002778	0.0006482	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	18	0.002856	0.0006128	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.02342	0.01249	0.032	No	11	0.01795	0.006561	9.091	None	No	0.01	Param.
Arsenic (mg/L)	MCM-04	0.005821	0.002756	0.032	No	20	0.004564	0.003157	10	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01207	0.005141	0.032	No	36	0.01111	0.01052	8.333	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1227**	**0.03537**	**0.032**	**Yes**	**4**	**0.07905**	**0.01924**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01738	0.01125	0.032	No	35	0.01432	0.007428	0	None	No	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.0011	0.032	No	20	0.003712	0.001849	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.005	0.00215	0.032	No	21	0.003947	0.001793	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.00226	0.032	No	21	0.00388	0.001607	47.62	None	No	0.01	NP (normality)
Barium (mg/L)	DPZ-02	0.08305	0.04973	2	No	9	0.06639	0.01726	0	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.07053	0.0342	2	No	20	0.06315	0.06426	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03611	0.01224	2	No	21	0.04324	0.09482	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1217	0.05949	2	No	21	0.0906	0.05639	0	None	No	0.01	Param.
Barium (mg/L)	MCM-07	0.1724	0.08945	2	No	20	0.1405	0.09107	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1177	0.08769	2	No	20	0.1027	0.02647	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1103	0.05008	2	No	20	0.08021	0.05305	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.121	0.06841	2	No	20	0.09472	0.04633	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003689	0.0002002	0.021	No	20	0.0003795	0.0001605	40	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	21	0.0004788	0.00009733	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	20	0.0004386	0.0001502	85	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001299	0.0006575	0.021	No	20	0.001031	0.0006206	10	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	20	0.0004024	0.0001753	75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0005	0.00024	0.021	No	20	0.0003529	0.0001343	40	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	18	0.0009683	0.0001344	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	18	0.0009556	0.0001886	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0012	0.1	No	18	0.006131	0.004458	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	18	0.006502	0.004519	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0011	0.1	No	19	0.007639	0.004061	73.68	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0022	0.1	No	18	0.006161	0.003955	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-12	0.00659	0.005357	0.1	No	18	0.007132	0.002036	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	MCM-14	0.01	0.0016	0.1	No	18	0.006265	0.004316	55.56	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01082	0.006253	0.1	No	18	0.009454	0.003531	22.22	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MCM-04	0.006	0.0025	0.036	No	21	0.004193	0.002189	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-05	0.0025	0.0019	0.036	No	21	0.002365	0.0004997	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.0025	0.0009	0.036	No	21	0.002319	0.0005793	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0025	0.0011	0.036	No	20	0.00232	0.0005672	90	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.0025	0.0005	0.036	No	20	0.001502	0.001025	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.0025	0.0006	0.036	No	20	0.002405	0.0004249	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.0025	0.0007	0.036	No	20	0.002192	0.0007547	85	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.879	6.152	34.9	No	9	8.016	1.93	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-04	5.087	2.936	34.9	No	20	4.155	2.126	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.183	1.644	34.9	No	21	2.756	1.976	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	6.546	3.098	34.9	No	20	4.822	3.037	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.866	5.865	34.9	No	21	7.366	2.72	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.222	2.273	34.9	No	20	2.748	0.8361	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.903	3.654	34.9	No	21	5.278	2.945	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.706	3.716	34.9	No	21	5.211	2.71	0	None	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.11	0.1	4	No	9	0.1011	0.003333	88.89	None	No	0.002	NP (NDs)
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	21	0.1265	0.1096	52.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MCM-05	0.5215	0.2831	4	No	23	0.4023	0.2279	13.04	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3087	0.1066	4	No	21	0.2702	0.2439	38.1	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.54	0.1	4	No	22	0.3579	0.3214	36.36	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.323	1.052	4	No	21	1.154	0.3181	4.762	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.294	0.1	4	No	23	0.2074	0.1736	52.17	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MCM-17	0.8109	0.324	4	No	22	0.646	0.4902	27.27	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MCM-05	0.005	0.0002	0.015	No	21	0.004771	0.001047	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.005	0.00012	0.015	No	21	0.004768	0.001065	95.24	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.005	0.0002	0.015	No	20	0.004269	0.001785	85	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.005	0.00083	0.015	No	20	0.003815	0.002111	75	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.005	0.00008	0.015	No	20	0.004754	0.0011	95	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.005	0.00034	0.015	No	20	0.004284	0.001749	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	**DPZ-02**	**0.09409**	**0.07277**	**0.049**	**Yes**	**11**	**0.07992**	**0.02399**	**9.091**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	MCM-04	0.025	0.0019	0.049	No	20	0.01578	0.0116	60	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0367	0.0219	0.049	No	21	0.05404	0.1185	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06066	0.03334	0.049	No	5	0.047	0.008153	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.04205	0.02032	0.049	No	22	0.03751	0.0321	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.0123	0.0104	0.049	No	20	0.01305	0.005279	15	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-14	0.0415	0.02322	0.049	No	22	0.03236	0.01703	9.091	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.0259	0.01691	0.049	No	20	0.02141	0.00791	5	None	No	0.01	Param.
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	18	0.0002283	0.0001202	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	18	0.0001912	0.00003724	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	19	0.0001979	0.000009177	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	18	0.0002261	0.0001108	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	18	0.0002256	0.0001084	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	18	0.0002244	0.0001037	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.01	0.000217	0.1	No	7	0.007209	0.004767	71.43	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.01	0.00015	0.1	No	18	0.009453	0.002322	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.01	0.00095	0.1	No	18	0.006988	0.004372	61.11	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.01	0.0013	0.1	No	19	0.00598	0.004372	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-07	0.01	0.000963	0.1	No	18	0.007509	0.004134	72.22	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.01	0.00055	0.1	No	18	0.007867	0.004106	77.78	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.01	0.00102	0.1	No	18	0.008419	0.00364	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00176	0.05	No	9	0.01987	0.01018	77.78	None	No	0.002	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	20	0.0044	0.001525	85	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.005	0.0028	0.05	No	21	0.004481	0.001106	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.0054	0.0024	0.05	No	21	0.004476	0.001613	61.9	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.005	0.0025	0.05	No	20	0.004209	0.001232	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	20	0.003738	0.001602	60	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.005	0.003	0.05	No	20	0.004315	0.001341	70	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.0067	0.0025	0.05	No	20	0.004397	0.0018	60	None	No	0.01	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	19	0.001899	0.0004414	94.74	None	No	0.01	NP (NDs)

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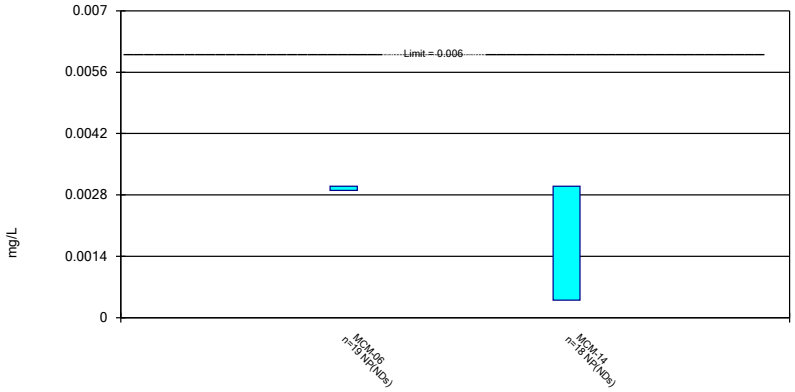
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

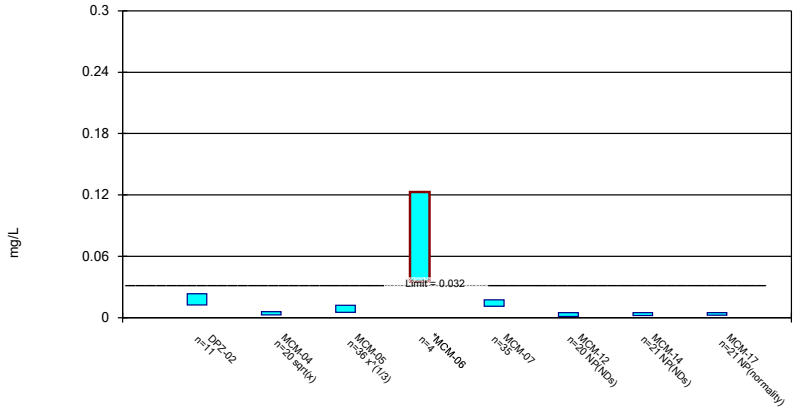


Constituent: Antimony Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

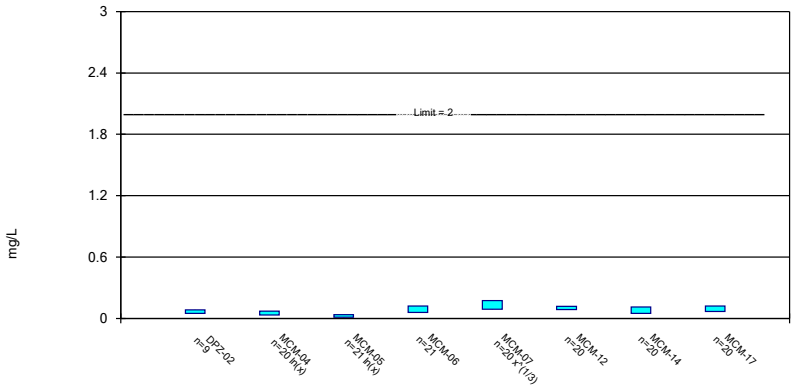


Constituent: Arsenic Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

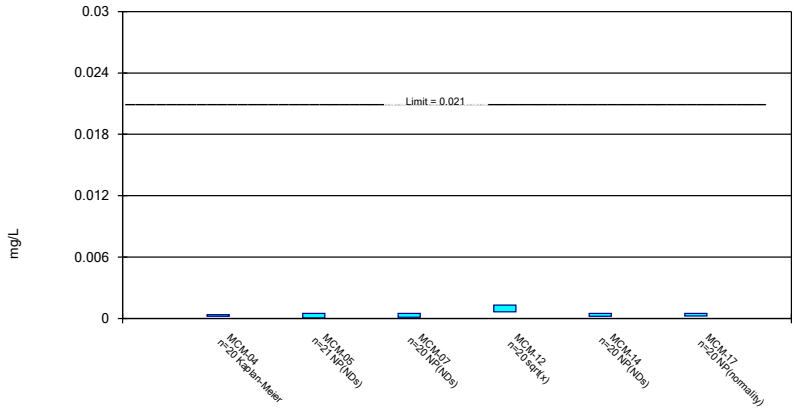


Constituent: Barium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

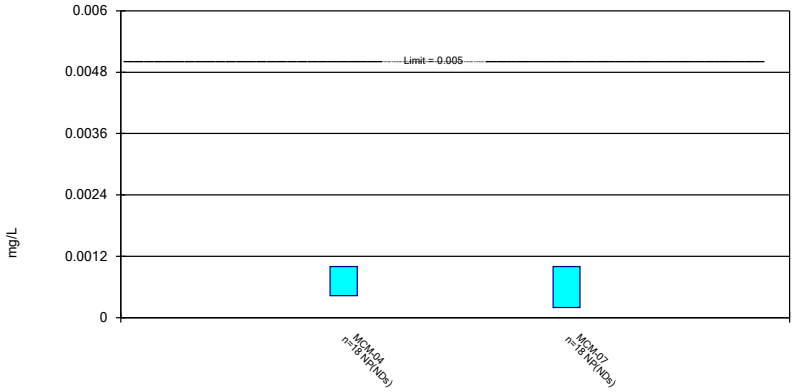


Constituent: Beryllium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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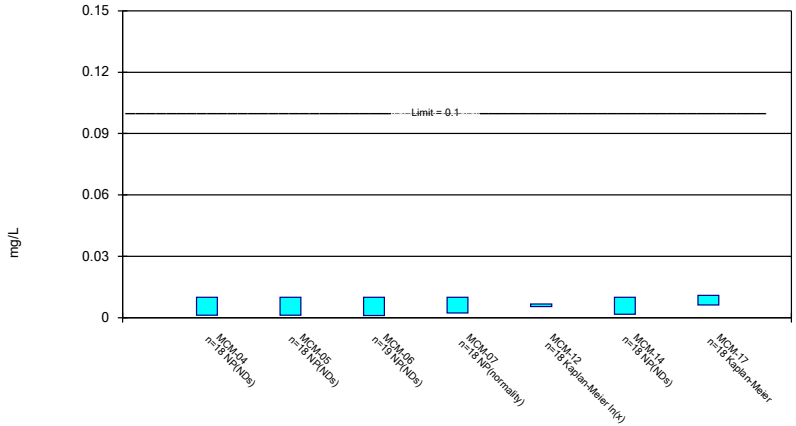
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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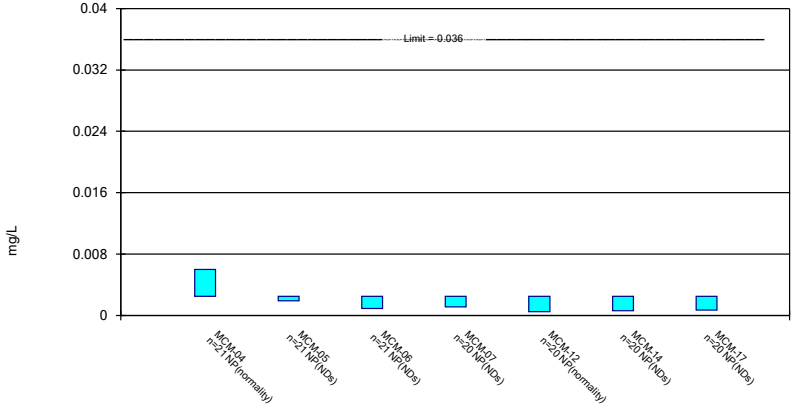
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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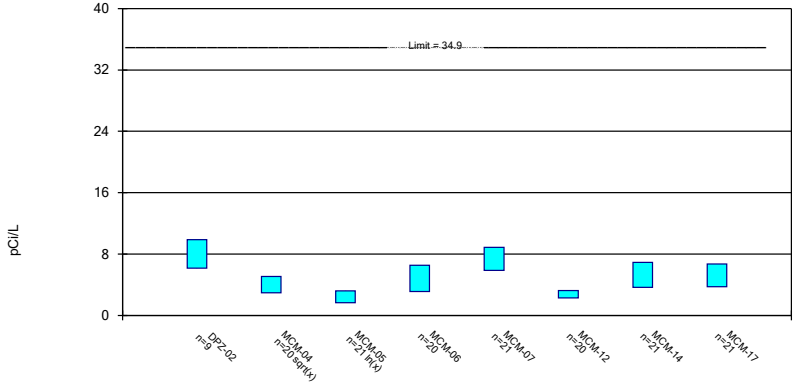
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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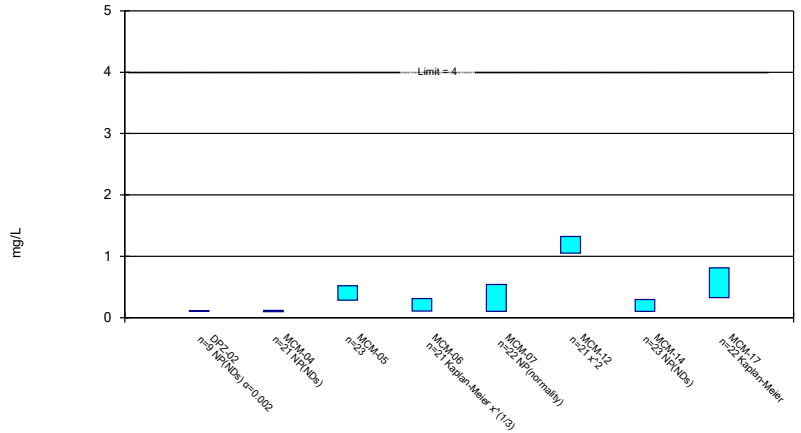
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/26/2024 9:25 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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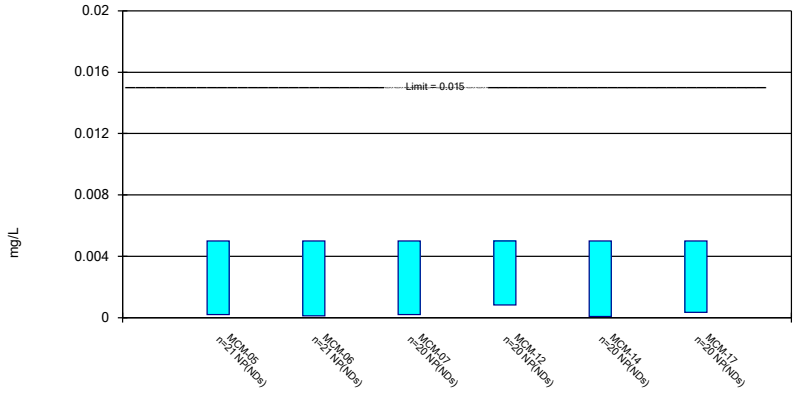
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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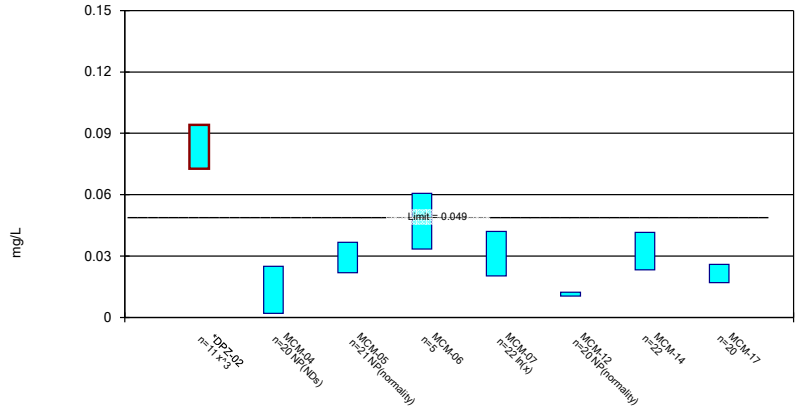
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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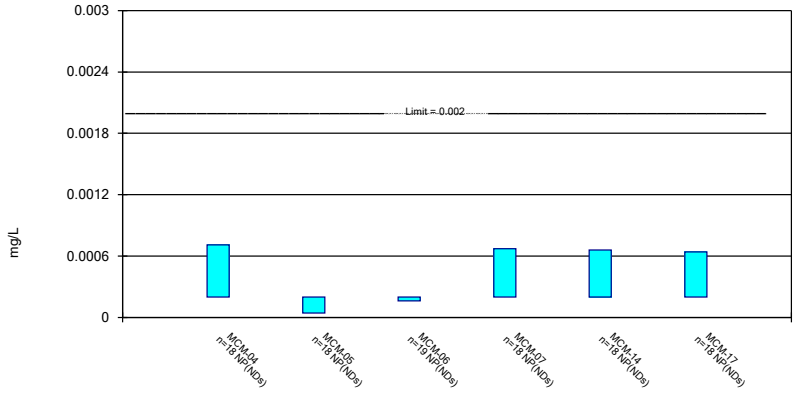
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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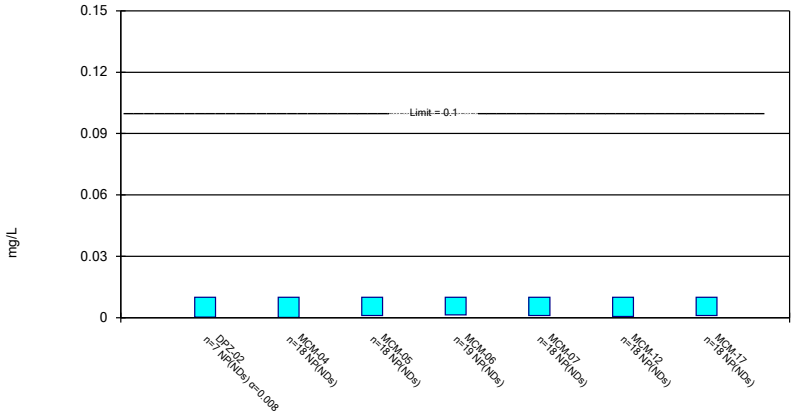
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Molybdenum Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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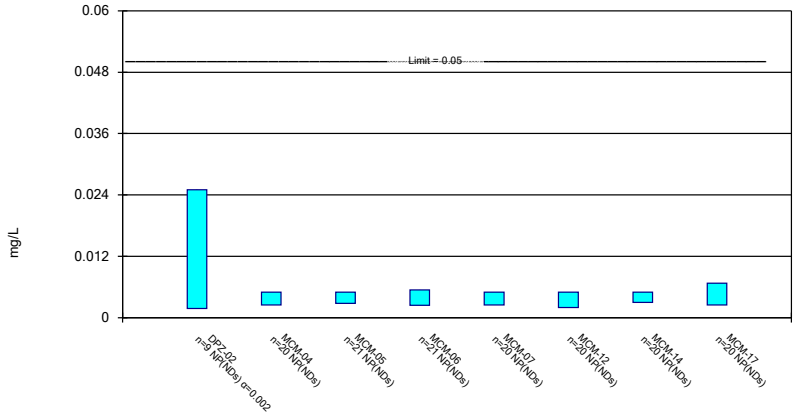
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

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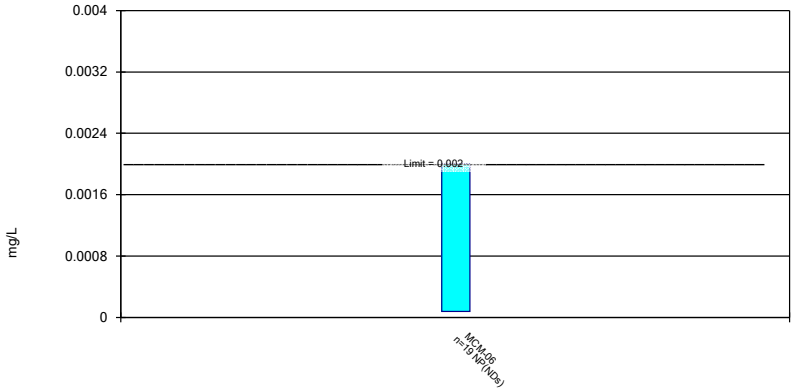
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/26/2024 9:26 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-06	MCM-14
8/30/2016		<0.003
8/31/2016	<0.003	
11/30/2016	<0.003	<0.003
2/15/2017		<0.003
2/16/2017	<0.003	
5/31/2017		<0.003
6/2/2017	<0.003	
8/16/2017		<0.003
8/17/2017	<0.003	
6/19/2018		<0.003
6/20/2018	<0.003	
9/25/2018		<0.003
9/27/2018	<0.003	
11/6/2018		<0.003
11/7/2018	<0.003	
3/6/2019	<0.003	
8/26/2019		0.0004 (J)
8/28/2019	0.00098 (J)	
10/15/2019		<0.003
10/17/2019	0.0009 (J)	
3/27/2020		<0.003
3/28/2020	0.0029 (J)	
9/13/2021		<0.003
9/14/2021	<0.003	
3/1/2022	<0.003	
3/3/2022		<0.003
9/20/2022	<0.003	
9/21/2022		<0.003
3/2/2023	<0.003	<0.003
9/12/2023		<0.003
9/14/2023	<0.003	
3/20/2024		<0.003
3/21/2024	<0.003	
9/11/2024		<0.003
9/12/2024	<0.003	
Mean	0.002778	0.002856
Std. Dev.	0.0006482	0.0006128
Upper Lim.	0.003	0.003
Lower Lim.	0.0029	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						<0.005	<0.005	
8/31/2016			<0.02	0.212	0.0066			
10/25/2016								<0.005
11/30/2016			0.0132	0.129	0.0281	<0.005	<0.005	0.0072
2/15/2017						<0.005	<0.005	0.0017 (J)
2/16/2017			0.0372	0.257	0.0295			
5/31/2017						0.0007 (J)	0.0008 (J)	0.0018 (J)
6/1/2017		0.004 (J)						
6/2/2017			0.0335	0.0559	0.0286			
8/2/2017		0.0028 (J)						
8/15/2017						0.0006 (J)		0.0015 (J)
8/16/2017							0.0007 (J)	
8/17/2017		0.0021 (J)	0.0336	0.458	0.0211			
2/20/2018			0.0267	0.305	0.0271			
4/4/2018		0.0023 (J)						
4/30/2018			0.025 (J)	0.36	0.016 (J)			
5/8/2018		0.0048 (J)						
6/19/2018						0.001 (J)	0.0062 (J)	0.0029 (J)
6/20/2018		0.0099	0.019	0.44				
6/21/2018					0.022 (J)			
7/24/2018			0.0079	0.45	0.014			
8/28/2018			0.0079	0.36	0.014			
9/25/2018						0.0011 (J)	0.0031 (J)	
9/26/2018								0.0015 (J)
9/27/2018		0.01	0.0035 (J)	0.27	0.015			
10/30/2018			0.0029 (J)	0.42	0.0061			
11/6/2018		0.013			0.012		0.0014 (J)	<0.005
11/7/2018			0.002 (J)	0.5		<0.005		
11/27/2018			0.0016 (J)	0.5	0.011			
12/18/2018			0.0043 (J)	0.6	0.018			
1/22/2019			0.0028 (J)	0.48	0.0097			
2/22/2019			0.00095 (J)	0.46	0.024 (J)			
3/6/2019				0.49				
3/26/2019			0.0018 (J)	0.3	0.0078			
6/4/2019			0.0019 (J)	0.41	0.017			
7/2/2019			0.0024 (J)	0.37	0.027			
7/29/2019			0.0021 (J)	0.45	0.0053			
8/26/2019			0.0021 (J)	0.46	0.0052		0.0022 (J)	
8/27/2019		0.0072				0.0011 (J)		0.0024 (J)
8/28/2019			0.0019 (J)	0.5	0.011			
9/30/2019			0.002 (J)		0.0036 (J)			
10/2/2019				0.6				
10/15/2019		0.0038 (J)				0.0024 (J)	0.0067	
10/16/2019			0.0047 (J)					0.0043 (J)
10/17/2019				0.34	0.0046 (J)			
11/21/2019								0.0031 (J)
3/27/2020						<0.005	<0.005	<0.005
3/28/2020	<0.005	0.0034 (J)	<0.02	0.3	0.012			
6/16/2020				0.51				
10/12/2020						<0.005		
10/13/2020		0.0022 (J)					<0.005	<0.005
10/14/2020				0.44 (D)	0.013		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
10/15/2020	0.021		0.024					
1/4/2021			0.0072					
3/2/2021						<0.005	<0.005	
3/3/2021								<0.005
3/4/2021	0.017 (J)	0.0018 (J)	<0.02	0.35	0.015 (J)			
9/13/2021						<0.005	<0.005	
9/14/2021	0.022	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.005
3/1/2022	0.015 (J)		0.011 (J)	0.24				
3/2/2022					0.009 (J)			
3/3/2022		0.0041				<0.005	<0.005	<0.005
6/28/2022	0.025			0.17				
9/20/2022	0.021			0.18				
9/21/2022		0.0017 (J)	0.0077		0.01	<0.005	<0.005	<0.005
2/28/2023						<0.005		0.00226 (J)
3/1/2023		0.00247 (J)						
3/2/2023	0.0202		0.00578 (J)	0.0764	0.014		0.00201 (J)	
9/12/2023			0.0113			0.00234 (J)	0.00263 (J)	
9/13/2023		0.00601			0.0117			0.00283 (J)
9/14/2023	0.0254			0.0653				
3/19/2024						<0.005		<0.005
3/20/2024		<0.005					<0.005	
3/21/2024	0.0163 (J)		0.017	0.0675	0.0107 (J)			
9/10/2024		<0.005				<0.005		<0.005
9/11/2024	0.0121		0.0249		0.00833		0.00215 (J)	
9/12/2024				0.107				
Mean	0.01795	0.004564	0.01111	0.07905	0.01432	0.003712	0.003947	0.00388
Std. Dev.	0.006561	0.003157	0.01052	0.01924	0.007428	0.001849	0.001793	0.001607
Upper Lim.	0.02342	0.005821	0.01207	0.1227	0.01738	0.005	0.005	0.005
Lower Lim.	0.01249	0.002756	0.005141	0.03537	0.01125	0.0011	0.00215	0.00226

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						0.108	0.0131	
8/31/2016			0.0289	0.0498	0.0771			
10/25/2016								0.063
11/30/2016			0.0168	0.0528	0.101	0.121	0.0105	0.0628
2/15/2017						0.111	0.0786	0.0102
2/16/2017			0.016	0.0555	0.0865			
5/31/2017						0.131	0.0199	0.061
6/1/2017		0.0195						
6/2/2017			0.0393 (J)	0.0508	0.123			
8/2/2017		0.053						
8/15/2017						0.126		0.0579
8/16/2017							0.033	
8/17/2017		0.0475	0.0188	0.0596	0.124			
4/4/2018		0.035						
5/8/2018		0.027						
6/19/2018						0.13	0.092	0.076
6/20/2018		0.027	0.014	0.06				
6/21/2018					0.1			
9/25/2018						0.12	0.098	
9/26/2018								0.099
9/27/2018		0.14	0.0097 (J)	0.06	0.12			
11/6/2018		0.31			0.12		0.1	0.052
11/7/2018			0.0085 (J)	0.19		0.11		
3/6/2019				0.16				
8/26/2019							0.12	
8/27/2019		0.083				0.14		0.11
8/28/2019			0.011	0.13	0.4			
10/15/2019		0.082				0.14	0.12	
10/16/2019			0.012					0.14
10/17/2019				0.13	0.35			
3/27/2020						0.12	0.13	0.16
3/28/2020		0.039	0.0041 (J)	0.12	0.11			
10/12/2020						0.1		
10/13/2020		0.055					0.14	0.14
10/14/2020				0.14	0.19			
10/15/2020	0.071		0.45					
1/4/2021			0.051					
3/2/2021						0.1	0.16	
3/3/2021								0.17
3/4/2021	0.096	0.062	0.0082 (J)	0.14	0.2			
9/13/2021						0.086	0.16	
9/14/2021	0.082	0.043	0.08	0.22	0.2			0.2
3/1/2022	0.074		0.035	0.084				
3/2/2022					0.12			
3/3/2022		0.031				0.069	0.15	0.1
9/20/2022	0.069			0.027				
9/21/2022		0.029	0.014		0.12	0.068	0.059	0.089
2/28/2023						0.071 (J)		0.0828 (J)
3/1/2023		0.031 (J)						
3/2/2023	0.0601 (J)		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)	
9/12/2023			0.0257			0.074	0.0306	
9/13/2023		0.0358			0.0745			0.0706

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/14/2023	0.0583			0.0456				
3/19/2024						0.0661		0.0776
3/20/2024		0.0501					0.026	
3/21/2024	0.0473		0.0287	0.0352	0.0493			
9/10/2024		0.063				0.0633		0.0724
9/11/2024	0.0398		0.023		0.0454		0.0279	
9/12/2024				0.0727				
Mean	0.06639	0.06315	0.04324	0.0906	0.1405	0.1027	0.08021	0.09472
Std. Dev.	0.01726	0.06426	0.09482	0.05639	0.09107	0.02647	0.05305	0.04633
Upper Lim.	0.08305	0.07053	0.03611	0.1217	0.1724	0.1177	0.1103	0.121
Lower Lim.	0.04973	0.0342	0.01224	0.05949	0.08945	0.08769	0.05008	0.06841

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0003 (J)	<0.0005	
8/31/2016		<0.0005	<0.0005			
10/25/2016						0.0004 (J)
11/30/2016		<0.0005	<0.0005	0.0004 (J)	<0.0005	0.0003 (J)
2/15/2017				0.0004 (J)	<0.0005	<0.0005
2/16/2017		<0.0005	<0.0005			
5/31/2017				0.0005 (J)	0.0001 (J)	0.0002 (J)
6/1/2017	0.0001 (J)					
6/2/2017		<0.0005	<0.0005			
8/2/2017	0.0003 (J)					
8/15/2017				0.0005 (J)		0.0002 (J)
8/16/2017					0.0002 (J)	
8/17/2017	0.0002 (J)	<0.0005	<0.0005			
4/4/2018	<0.0005					
5/8/2018	0.00025 (J)					
6/19/2018				0.00065 (J)	<0.0005	0.00032 (J)
6/20/2018	0.00021 (J)	<0.0005				
6/21/2018			<0.0005			
9/25/2018				0.00066 (J)	5E-05 (J)	
9/26/2018						0.00024 (J)
9/27/2018	0.00031 (J)	<0.0005	7.4E-05 (J)			
11/6/2018	0.00077 (J)		0.00012 (J)		9.7E-05 (J)	0.00026 (J)
11/7/2018		5.4E-05 (J)		0.00058 (J)		
8/26/2019					0.0001 (J)	
8/27/2019	0.00032 (J)			0.0009 (J)		0.00018 (J)
8/28/2019		<0.0005	<0.0005			
10/15/2019	0.00035 (J)			0.00079 (J)	<0.0005	
10/16/2019		<0.0005				0.00014 (J)
10/17/2019			7.8E-05 (J)			
3/27/2020				<0.005	<0.0005	<0.0005
3/28/2020	<0.0005	<0.0005	<0.0005			
10/12/2020				0.001 (J)		
10/13/2020	<0.0005				<0.0005	<0.0005
10/14/2020			<0.0005			
10/15/2020		<0.0005				
1/4/2021		<0.0005				
3/2/2021				<0.005	<0.0005	
3/3/2021						<0.0005
3/4/2021	<0.0005	<0.0005	<0.0005			
9/13/2021				0.0011	<0.0005	
9/14/2021	<0.0005	<0.0005	<0.0005			<0.0005
3/1/2022		<0.0005				
3/2/2022			<0.0005			
3/3/2022	0.00025			0.0012 (J)	<0.0005	<0.0005
9/21/2022	<0.0005	<0.0005	<0.0005	0.0011 (J)	<0.0005	0.00029 (J)
2/28/2023				0.00135 (J)		0.000279 (J)
3/1/2023	<0.0005					
3/2/2023		<0.0005	<0.0005		<0.0005	
9/12/2023		<0.0005		0.00137	<0.0005	
9/13/2023	<0.0005		<0.0005			0.000249 (J)
3/19/2024				0.00145		<0.0005
3/20/2024	0.000208 (J)				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
3/21/2024		<0.0005	<0.0005			
9/10/2024	0.000321 (J)			0.00137		<0.0005
9/11/2024		<0.0005	<0.0005		<0.0005	
Mean	0.0003795	0.0004788	0.0004386	0.001031	0.0004024	0.0003529
Std. Dev.	0.0001605	9.733E-05	0.0001502	0.0006206	0.0001753	0.0001343
Upper Lim.	0.0003689	0.0005	0.0005	0.001299	0.0005	0.0005
Lower Lim.	0.0002002	5.4E-05	0.00012	0.0006575	0.0002	0.00024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-07
8/31/2016		<0.001
11/30/2016		<0.001
2/16/2017		<0.001
6/1/2017	<0.001	
6/2/2017		<0.001
8/2/2017	<0.001	
8/17/2017	<0.001	<0.001
4/4/2018	<0.001	
5/8/2018	<0.001	
6/20/2018	<0.001	
6/21/2018		<0.001
9/27/2018	<0.001	<0.001
11/6/2018	<0.001	<0.001
8/27/2019	<0.001	
8/28/2019		<0.001
10/15/2019	<0.001	
10/17/2019		<0.001
3/28/2020	<0.001	<0.001
9/14/2021	<0.001	<0.001
3/2/2022		<0.001
3/3/2022	0.00043	
9/21/2022	<0.001	0.0002 (J)
3/1/2023	<0.001	
3/2/2023		<0.001
9/13/2023	<0.001	<0.001
3/20/2024	<0.001	
3/21/2024		<0.001
9/10/2024	<0.001	
9/11/2024		<0.001
Mean	0.0009683	0.0009556
Std. Dev.	0.0001344	0.0001886
Upper Lim.	0.001	0.001
Lower Lim.	0.00043	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					0.0054 (J)	0.0026 (J)	
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)			
10/25/2016							0.016
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)			
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109
6/1/2017	0.0008 (J)						
6/2/2017		<0.01	<0.01	0.0023 (J)			
8/2/2017	0.0012 (J)						
8/15/2017					0.005 (J)		0.0117
8/16/2017						0.0019 (J)	
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)			
4/4/2018	<0.01						
5/8/2018	<0.01						
6/19/2018					0.0047 (J)	<0.01	0.013 (J)
6/20/2018	<0.01	<0.01	<0.01				
6/21/2018				<0.01			
9/25/2018					<0.01	<0.01	
9/26/2018							0.0092 (J)
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)			
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.01
11/7/2018		<0.01	<0.01		<0.01		
3/6/2019			<0.01				
8/26/2019						0.00071 (J)	
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)			
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)	
10/16/2019		0.00057 (J)					0.0063 (J)
10/17/2019			0.0015 (J)	0.0019 (J)			
3/27/2020					<0.01	<0.01	<0.01
3/28/2020	<0.01	<0.01	<0.01	<0.01			
9/13/2021					<0.01	<0.01	
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.01
3/1/2022		<0.01	<0.01				
3/2/2022				<0.01			
3/3/2022	0.00085 (J)				<0.01	<0.01	<0.01
9/20/2022			<0.01				
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)
2/28/2023					0.00663 (J)		0.00623 (J)
3/1/2023	<0.01						
3/2/2023		<0.01	<0.01	<0.01		<0.01	
9/12/2023		<0.01			0.00703 (J)	<0.01	
9/13/2023	<0.01			<0.01			0.00608 (J)
9/14/2023			<0.01				
3/19/2024					0.00689 (J)		0.00466 (J)
3/20/2024	<0.01					<0.01	
3/21/2024		<0.01	<0.01	<0.01			
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)
9/11/2024		<0.01		<0.01		<0.01	
9/12/2024			<0.01				
Mean	0.006131	0.006502	0.007639	0.006161	0.007132	0.006265	0.009454

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
Std. Dev.	0.004458	0.004519	0.004061	0.003955	0.002036	0.004316	0.003531
Upper Lim.	0.01	0.01	0.01	0.01	0.00659	0.01	0.01082
Lower Lim.	0.0012	0.0012	0.0011	0.0022	0.005357	0.0016	0.006253

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					<0.0025	0.0006 (J)	
8/31/2016		<0.0025	<0.0025	<0.0025			
10/25/2016							<0.0025
11/30/2016		<0.0025	0.0009 (J)	0.0011 (J)	<0.0025	<0.0025	0.0007 (J)
2/15/2017					<0.0025	<0.0025	<0.0025
2/16/2017		<0.0025	<0.0025	<0.0025			
5/31/2017					0.0005 (J)	<0.0025	<0.0025
6/1/2017	<0.0025						
6/2/2017		<0.0025	<0.0025	<0.0025			
8/2/2017	<0.0025						
8/15/2017					0.0005 (J)		0.0004 (J)
8/16/2017						<0.0025	
8/17/2017	<0.0025	<0.0025	0.0003 (J)	<0.0025			
4/4/2018	<0.0025						
5/8/2018	<0.0025						
6/19/2018					0.00053 (J)	<0.0025	<0.0025
6/20/2018	<0.0025	<0.0025	<0.0025				
6/21/2018				<0.0025			
9/25/2018					<0.0025	<0.0025	
9/26/2018							<0.0025
9/27/2018	<0.0025	<0.0025	<0.0025	<0.0025			
11/6/2018	0.0048 (J)			<0.0025		<0.0025	<0.0025
11/7/2018		<0.0025	<0.0025		<0.0025		
3/6/2019			<0.0025				
8/26/2019						<0.0025	
8/27/2019	0.0078				0.0007 (J)		<0.0025
8/28/2019		<0.0025	<0.0025	<0.0025			
10/15/2019	0.0085				0.00054 (J)	<0.0025	
10/16/2019		<0.0025					<0.0025
10/17/2019			<0.0025	<0.0025			
11/20/2019	0.009						
3/27/2020					<0.0025	<0.0025	<0.0025
3/28/2020	0.0041 (J)	<0.0025	<0.0025	<0.0025			
10/12/2020					<0.0025		
10/13/2020	0.0063					<0.0025	<0.0025
10/14/2020			<0.0025	<0.0025			
10/15/2020		0.0019 (J)					
1/4/2021		<0.0025					
3/2/2021					<0.0025	<0.0025	
3/3/2021							<0.0025
3/4/2021	0.006	<0.0025	<0.0025	<0.0025			
9/13/2021					<0.0025	<0.0025	
9/14/2021	0.0054	<0.0025	<0.0025	<0.0025			<0.0025
3/1/2022		<0.0025	<0.0025				
3/2/2022				<0.0025			
3/3/2022	0.0049				<0.0025	<0.0025	<0.0025
9/20/2022			<0.0025				
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.0025	0.00025 (J)
2/28/2023					0.00052 (J)		<0.0025
3/1/2023	0.00256 (J)						
3/2/2023		<0.0025	<0.0025	<0.0025		<0.0025	
9/12/2023		<0.0025			0.000429 (J)	<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/13/2023	0.00341			<0.0025			<0.0025
9/14/2023			<0.0025				
3/19/2024					0.000452 (J)		<0.0025
3/20/2024	0.00291					<0.0025	
3/21/2024		<0.0025	<0.0025	<0.0025			
9/10/2024	0.00238				0.000453 (J)		<0.0025
9/11/2024		<0.0025		<0.0025		<0.0025	
9/12/2024			<0.0025				
Mean	0.004193	0.002365	0.002319	0.00232	0.001502	0.002405	0.002192
Std. Dev.	0.002189	0.0004997	0.0005793	0.0005672	0.001025	0.0004249	0.0007547
Upper Lim.	0.006	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	0.0019	0.0009	0.0011	0.0005	0.0006	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						1.4	1.31	
8/31/2016			2.39	2.47	5.4			
10/25/2016								2.22
11/30/2016			1.66	1.6	3.13	4.37	0.438	2.01
2/15/2017						2.21	0.3	1.56
2/16/2017			2.71	1.83	3.09			
5/31/2017						2.62	1.77	1.92
6/1/2017		1.9						
6/2/2017			1.99	2.45	7.56			
8/2/2017		5.01						
8/15/2017						2.69		2.47
8/16/2017							2.26	
8/17/2017		5.35	1.87	3.33	6.38			
4/4/2018		5.05						
5/8/2018		3.25						
6/19/2018						2.96	5.39	2.82
6/20/2018		3.53	1.95	2.84				
6/21/2018					5.24			
9/25/2018						2.23	6.22	
9/26/2018								3.15 (D)
9/27/2018		7.07	0.629 (U)	1.94	6.11			
11/6/2018		11			6.1		5.38	2.95
11/7/2018			1.41 (U)	8.58		2.14		
8/26/2019							7.68	
8/27/2019		4.4				2.91		5.82
8/28/2019			1.67	6.86	8.73			
10/15/2019		4.92				3.28	8.7	
10/16/2019			1.92					7.5
10/17/2019				7.85	7.97			
11/20/2019					9.8			
11/21/2019							7.34	8.89
3/27/2020						2.33	9.63	9.54
3/28/2020		4.16	1.44 (U)	11	11.7			
10/12/2020						2.66		
10/13/2020		3.71					7.43	7.75
10/14/2020				8.97	13.1			
10/15/2020	6.65		2.56					
1/4/2021			5.84					
4/6/2021	7.33	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8
9/13/2021						2.54	8.38	
9/14/2021	6.97	2.69	7.15	8.11	10.3			8.82
3/1/2022	9.03		8.16 (U)	5.83				
3/2/2022					5.66			
3/3/2022		2.51				3.56 (U)	8	9.1
9/20/2022	8.2			1.51				
9/21/2022		1.67	1.42		8.23	1.54	4.52	5.26
2/28/2023						2.29		5.48
3/1/2023		5.05						
3/2/2023	9.42		2.22	1.79	4.5		8.08	
9/12/2023			4.42			3.43	5.46	
9/13/2023		2.05			10.3			4.44
9/14/2023	11.7			3.61				

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/19/2024						2.79		5.64
3/20/2024		2.61					2.14	
3/21/2024	4.89		2.48	2.73	6.37			
9/10/2024		4.33				4.8		4.29
9/11/2024	7.95		2.55		5.35		3.4	
9/12/2024				5.25				
Mean	8.016	4.155	2.756	4.822	7.366	2.748	5.278	5.211
Std. Dev.	1.93	2.126	1.976	3.037	2.72	0.8361	2.945	2.71
Upper Lim.	9.879	5.087	3.183	6.546	8.866	3.222	6.903	6.706
Lower Lim.	6.152	2.936	1.644	3.098	5.865	2.273	3.654	3.716

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						1.5	0.5	
8/31/2016			0.93	0.41	0.92			
10/25/2016								1.1
11/30/2016			0.93	0.61	0.99	1.4	0.49	1.3
2/15/2017						1.3	0.58	1.3
2/16/2017			0.6	0.3 (J)	0.54			
5/31/2017						1.2	0.56	1.3
6/1/2017		<0.1						
6/2/2017			0.34	0.19 (J)	0.42			
8/2/2017		0.27 (J)						
8/15/2017						1.2		1.2
8/16/2017							0.45	
8/17/2017		0.18 (J)	0.52	0.26 (J)	0.27 (J)			
4/4/2018		<0.1						
5/8/2018		0.56						
6/19/2018						0.91	<0.1	0.6
6/20/2018		0.033 (J)	0.5	0.22 (J)				
6/21/2018					0.28 (J)			
9/25/2018						1.1	<0.1	
9/26/2018								0.44 (D)
9/27/2018		0.12 (J)	0.32	0.068 (J)	0.32			
11/6/2018		<0.1			0.086 (J)		0.084 (J)	0.4
11/7/2018			0.35	10.3 (O)		<0.1		
3/6/2019				<0.1				
3/24/2019			0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31
3/25/2019		0.055 (J)						
8/26/2019							<0.1	
8/27/2019		<0.1				1.1		<0.1
8/28/2019			0.36	<0.1	<0.1			
10/15/2019		0.095 (J)				1	<0.1	
10/16/2019			0.41					0.083 (J)
10/17/2019				<0.1	<0.1			
11/20/2019			0.34		<0.1			
11/21/2019							<0.1	<0.1
3/27/2020						1.1	<0.1	<0.1
3/28/2020		<0.1	0.34	<0.1	<0.1			
10/12/2020						1.2		
10/13/2020		<0.1					<0.1	<0.1
10/14/2020				<0.1	<0.1			
10/15/2020	0.11		0.22					
1/4/2021			<0.1					
3/2/2021						1	<0.1	
3/3/2021								0.58 (J)
3/4/2021	<0.1	<0.1	0.45	<0.1	<0.1			
7/1/2021							<0.1	
9/13/2021						1.4	<0.1	
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1
3/1/2022	<0.1		<0.1	<0.1				
3/2/2022					<0.1			
3/3/2022		<0.1				0.95	<0.1	<0.1
9/20/2022	<0.1			1.1 (J)				
9/21/2022		<0.1	0.48		0.18	1.3	0.12	0.78

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
2/28/2023						1.21		0.815
3/1/2023		<0.1						
3/2/2023	<0.1		0.388	0.419 (J)	0.44 (J)		0.188 (J)	
9/12/2023			0.374			1.32	<0.1	
9/13/2023		0.0941 (J)			0.982 (J)			1.46
9/14/2023	<0.1			0.246 (J)				
3/19/2024						1.34		0.959 (J)
3/20/2024		0.0744 (J)					0.294 (J)	
3/21/2024	<0.1		0.277	0.469 (J)	0.814 (J)			
9/10/2024		0.0749 (J)				1.67		0.986 (J)
9/11/2024	<0.1		0.654		0.692		0.164 (J)	
9/12/2024				0.392 (J)				
Mean	0.1011	0.1265	0.4023	0.2702	0.3579	1.154	0.2074	0.646
Std. Dev.	0.003333	0.1096	0.2279	0.2439	0.3214	0.3181	0.1736	0.4902
Upper Lim.	0.11	0.12	0.5215	0.3087	0.54	1.323	0.294	0.8109
Lower Lim.	0.1	0.0941	0.2831	0.1066	0.1	1.052	0.1	0.324

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0001 (J)	<0.005	
8/31/2016	<0.005	<0.005	<0.005			
10/25/2016						<0.005
11/30/2016	0.0002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2017				<0.005	<0.005	<0.005
2/16/2017	<0.005	<0.005	0.0002 (J)			
5/31/2017				9E-05 (J)	<0.005	<0.005
6/2/2017	<0.005	<0.005	<0.005			
8/15/2017				<0.005		0.0002 (J)
8/16/2017					8E-05 (J)	
8/17/2017	<0.005	<0.005	8E-05 (J)			
6/19/2018				<0.005	<0.005	<0.005
6/20/2018	<0.005	<0.005				
6/21/2018			<0.005			
9/25/2018				<0.005	<0.005	
9/26/2018						<0.005
9/27/2018	<0.005	<0.005	<0.005			
11/6/2018			<0.005		<0.005	<0.005
11/7/2018	<0.005	<0.005		<0.005		
3/6/2019		<0.005				
8/26/2019					<0.005	
8/27/2019				0.00022 (J)		0.00014 (J)
8/28/2019	<0.005	<0.005	0.0001 (J)			
10/15/2019				5.6E-05 (J)	<0.005	
10/16/2019	<0.005					0.00034 (J)
10/17/2019		0.00012 (J)	<0.005			
3/27/2020				<0.005	<0.005	<0.005
3/28/2020	<0.005	<0.005	<0.005			
10/12/2020				<0.005		
10/13/2020					<0.005	<0.005
10/14/2020		<0.005	<0.005			
10/15/2020	<0.005					
1/4/2021	<0.005					
3/2/2021				<0.005	<0.005	
3/3/2021						<0.005
3/4/2021	<0.005	<0.005	<0.005			
9/13/2021				<0.005	<0.005	
9/14/2021	<0.005	<0.005	<0.005			<0.005
3/1/2022	<0.005	<0.005				
3/2/2022			<0.005			
3/3/2022				<0.005	<0.005	<0.005
9/20/2022		<0.005				
9/21/2022	<0.005		<0.005	0.00083 (J)	<0.005	<0.005
2/28/2023				<0.005		<0.005
3/2/2023	<0.005	<0.005	<0.005		<0.005	
9/12/2023	<0.005			<0.005	<0.005	
9/13/2023			<0.005			<0.005
9/14/2023		<0.005				
3/19/2024				<0.005		<0.005
3/20/2024					<0.005	
3/21/2024	<0.005	<0.005	<0.005			
9/10/2024				<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/11/2024	<0.005		<0.005		<0.005	
9/12/2024		<0.005				
Mean	0.004771	0.004768	0.004269	0.003815	0.004754	0.004284
Std. Dev.	0.001047	0.001065	0.001785	0.002111	0.0011	0.001749
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0002	0.00012	0.0002	0.00083	8E-05	0.00034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						0.0102 (J)	0.0112 (J)	
8/31/2016			0.0219 (J)	0.0389 (J)	0.0122 (J)			
10/25/2016								0.007 (J)
11/30/2016			0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.025	0.0086 (J)
2/15/2017						0.0115 (J)	0.0105 (J)	0.0149 (J)
2/16/2017			0.0376 (J)	0.05 (J)	0.0142 (J)			
5/31/2017						0.011 (J)	0.0106 (J)	0.019 (J)
6/1/2017		<0.025						
6/2/2017			0.0346 (J)	0.0477 (J)	0.0229 (J)			
8/2/2017		<0.025						
8/15/2017						0.0123 (J)		0.016 (J)
8/16/2017							0.0145 (J)	
8/17/2017		<0.025	0.0367 (J)	0.0645	0.0241 (J)			
4/4/2018		0.0013 (J)						
5/8/2018		0.0012 (J)						
6/19/2018						0.012 (J)	0.044 (J)	0.021 (J)
6/20/2018		0.0015 (J)	0.034 (J)	0.066 (J)				
6/21/2018					0.03 (J)			
9/25/2018						0.011 (J)	0.041 (J)	
9/26/2018								0.02 (J)
9/27/2018		0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)			
11/6/2018		0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)
11/7/2018			0.022 (J)	0.11		0.013 (J)		
3/6/2019				0.12				
8/26/2019							0.059	
8/27/2019		0.002 (J)				0.012 (J)		0.023 (J)
8/28/2019			0.023 (J)	0.13	0.12			
10/15/2019		0.0019 (J)				0.012 (J)	0.056 (J)	
10/16/2019			0.021 (J)					0.024 (J)
10/17/2019				0.12	0.096			
11/20/2019					0.12			
11/21/2019							0.052	
3/27/2020						<0.025	0.052	0.033 (J)
3/28/2020	0.078	<0.025	0.014 (J)	0.064	0.027 (J)			
6/16/2020	0.096 (J)			0.12 (J)	0.049 (J)			
10/12/2020						0.011 (J)		
10/13/2020		<0.025					0.046 (J)	0.028 (J)
10/14/2020				0.11	0.039 (J)			
10/15/2020	0.093		0.57					
1/4/2021			0.043 (J)					
3/2/2021						<0.025	0.046 (J)	
3/3/2021								<0.025
3/4/2021	0.094 (J)	<0.025	0.017 (J)	0.096 (J)	0.035 (J)			
7/1/2021							<0.025	
9/13/2021						0.01 (J)	0.047	
9/14/2021	0.092	<0.025	0.042 (J)	0.084	0.035 (J)			0.035 (J)
3/1/2022	0.088 (J)		0.028 (J)	0.074				
3/2/2022					0.022 (J)			
3/3/2022		0.0017 (J)				<0.025	0.037 (J)	0.02 (J)
9/20/2022	<0.025			0.043				
9/21/2022		<0.025	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)
2/28/2023						0.0104 (J)		0.0257 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/1/2023		<0.025						
3/2/2023	0.0919		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)	
9/12/2023			0.0301			0.0115	0.0222	
9/13/2023		<0.025			0.027			0.037
9/14/2023	0.087			0.0551				
3/19/2024						0.0104		0.0223
3/20/2024		<0.025					0.0208	
3/21/2024	0.08		0.0329	0.0458	0.0135			
9/10/2024		<0.025				0.00967 (J)		0.0211
9/11/2024	0.0667		0.029		0.0147		0.0204	
9/12/2024				0.055				
Mean	0.07992	0.01578	0.05404	0.047	0.03751	0.01305	0.03236	0.02141
Std. Dev.	0.02399	0.0116	0.1185	0.008153	0.0321	0.005279	0.01703	0.00791
Upper Lim.	0.09409	0.025	0.0367	0.06066	0.04205	0.0123	0.0415	0.0259
Lower Lim.	0.07277	0.0019	0.0219	0.03334	0.02032	0.0104	0.02322	0.01691

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
8/30/2016					<0.0002	
8/31/2016		<0.0002	<0.0002	<0.0002		
10/25/2016						<0.0002
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/15/2017					<0.0002	<0.0002
2/16/2017		<0.0002	<0.0002	<0.0002		
5/31/2017					<0.0002	<0.0002
6/1/2017	<0.0002					
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002		
8/2/2017	<0.0002					
8/15/2017						<0.0002
8/16/2017					<0.0002	
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/4/2018	<0.0002					
5/8/2018	<0.0002					
6/19/2018					<0.0002	<0.0002
6/20/2018	<0.0002	<0.0002	<0.0002			
6/21/2018				<0.0002		
9/25/2018					<0.0002	
9/26/2018						<0.0002
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002		
11/6/2018	0.00071			0.00067	0.00066	0.00064
11/7/2018		<0.0002	<0.0002			
3/6/2019			<0.0002			
8/26/2019					<0.0002	
8/27/2019	<0.0002					<0.0002
8/28/2019		<0.0002	<0.0002	<0.0002		
10/15/2019	<0.0002				<0.0002	
10/16/2019		<0.0002				<0.0002
10/17/2019			<0.0002	<0.0002		
3/27/2020					<0.0002	<0.0002
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/13/2021					<0.0002	
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002		<0.0002
3/1/2022		<0.0002	<0.0002			
3/2/2022				<0.0002		
3/3/2022	<0.0002				<0.0002	<0.0002
9/20/2022			<0.0002			
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2023						<0.0002
3/1/2023	<0.0002					
3/2/2023		<0.0002	<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002	
9/13/2023	<0.0002			<0.0002		<0.0002
9/14/2023			<0.0002			
3/19/2024						<0.0002
3/20/2024	<0.0002				<0.0002	
3/21/2024		<0.0002	<0.0002	<0.0002		
9/10/2024	<0.0002					<0.0002
9/11/2024		<0.0002		<0.0002	<0.0002	
9/12/2024			<0.0002			
Mean	0.0002283	0.0001912	0.0001979	0.0002261	0.0002256	0.0002244

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
Std. Dev.	0.0001202	3.724E-05	9.177E-06	0.0001108	0.0001084	0.0001037
Upper Lim.	0.00071	0.0002	0.0002	0.00067	0.00066	0.00064
Lower Lim.	0.0002	4.2E-05	0.00016	0.0002	0.0002	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17
8/30/2016						<0.01	
8/31/2016			<0.01	<0.01	<0.01		
10/25/2016							<0.01
11/30/2016			<0.01	<0.01	<0.01	<0.01	<0.01
2/15/2017						<0.01	<0.01
2/16/2017			<0.01	<0.01	<0.01		
5/31/2017						<0.01	<0.01
6/1/2017		<0.01					
6/2/2017			<0.01	<0.01	<0.01		
8/2/2017		<0.01					
8/15/2017						<0.01	<0.01
8/17/2017		<0.01	0.0012 (J)	0.0025 (J)	<0.01		
4/4/2018		<0.01					
5/8/2018		<0.01					
6/19/2018						<0.01	<0.01
6/20/2018		<0.01	<0.01	<0.01			
6/21/2018					<0.01		
9/25/2018						<0.01	
9/26/2018							<0.01
9/27/2018		<0.01	<0.01	<0.01	<0.01		
11/6/2018		<0.01			<0.01		<0.01
11/7/2018			<0.01	0.0024 (J)		<0.01	
3/6/2019				<0.01			
8/27/2019		<0.01				<0.01	<0.01
8/28/2019			<0.01	0.0017 (J)	<0.01		
10/15/2019		<0.01				<0.01	
10/16/2019			<0.01				<0.01
10/17/2019				0.0017 (J)	<0.01		
3/27/2020						<0.01	<0.01
3/28/2020		<0.01	<0.01	<0.01	<0.01		
9/13/2021						<0.01	
9/14/2021	<0.01	<0.01	0.0099 (J)	<0.01	<0.01		<0.01
3/1/2022	<0.01		<0.01	<0.01			
3/2/2022					<0.01		
3/3/2022		0.00015 (J)				<0.01	<0.01
9/20/2022	<0.01			0.0013 (J)			
9/21/2022		<0.01	0.00095 (J)		0.00095 (J)	<0.01	<0.01
2/28/2023						0.000362 (J)	0.000313 (J)
3/1/2023		<0.01					
3/2/2023	0.000245 (J)		0.000852 (J)	0.00131 (J)	0.000963 (J)		
9/12/2023			0.000809 (J)			0.000423 (J)	
9/13/2023		<0.01			0.000847 (J)		0.000217 (J)
9/14/2023	<0.01			0.000839 (J)			
3/19/2024						0.00055 (J)	0.00102 (J)
3/20/2024		<0.01					
3/21/2024	<0.01		0.000936 (J)	0.000983 (J)	0.00146 (J)		
9/10/2024		<0.01				0.000276 (J)	<0.01
9/11/2024	0.000217 (J)		0.00113		0.000949 (J)		
9/12/2024				0.000895 (J)			
Mean	0.007209	0.009453	0.006988	0.00598	0.007509	0.007867	0.008419
Std. Dev.	0.004767	0.002322	0.004372	0.004372	0.004134	0.004106	0.00364
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17
Lower Lim.	0.000217	0.00015	0.00095	0.0013	0.000963	0.00055	0.00102

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016						0.0011 (J)	<0.005	
8/31/2016			0.002 (J)	0.0015 (J)	0.0021 (J)			
10/25/2016								0.003 (J)
11/30/2016			0.0023 (J)	0.0054 (J)	<0.005	0.0023 (J)	<0.005	0.0087 (J)
2/15/2017						0.0021 (J)	0.0014 (J)	0.0067 (J)
2/16/2017			0.002 (J)	0.0022 (J)	0.0025 (J)			
5/31/2017						<0.005	<0.005	0.0018 (J)
6/1/2017		<0.005						
6/2/2017			<0.005	<0.005	<0.005			
8/2/2017		<0.005						
8/15/2017						0.0021 (J)		0.0025 (J)
8/16/2017							0.0018 (J)	
8/17/2017		<0.005	<0.005	0.002 (J)	0.0033 (J)			
4/4/2018		<0.005						
5/8/2018		<0.005						
6/19/2018						0.0017 (J)	<0.005	<0.005
6/20/2018		<0.005	<0.005	<0.005				
6/21/2018					<0.005			
9/25/2018						0.002 (J)	0.0019 (J)	
9/26/2018								0.0016 (J)
9/27/2018		<0.005	<0.005	<0.005	0.0023 (J)			
11/6/2018		0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.005
11/7/2018			<0.005	0.0075 (J)		<0.005		
3/6/2019				0.0024 (J)				
8/26/2019							0.0025 (J)	
8/27/2019		<0.005				0.0019 (J)		0.0018 (J)
8/28/2019			<0.005	0.0014 (J)	0.0019 (J)			
10/15/2019		<0.005				<0.005	0.003 (J)	
10/16/2019			<0.005					<0.005
10/17/2019				0.0066 (J)	0.0049 (J)			
3/27/2020						<0.005	<0.005	<0.005
3/28/2020		<0.005	<0.005	<0.005	<0.005			
10/12/2020						<0.005		
10/13/2020		<0.005					<0.005	<0.005
10/14/2020				<0.005	<0.005			
10/15/2020	<0.025		0.0028 (J)					
1/4/2021			<0.005					
3/2/2021						<0.005	<0.005	
3/3/2021								<0.005
3/4/2021	<0.025	0.00038 (J)	<0.005	<0.005	<0.005			
9/13/2021						<0.005	<0.005	
9/14/2021	<0.025	<0.005	<0.005	<0.005	<0.005			<0.005
3/1/2022	<0.025		<0.005	<0.005				
3/2/2022					<0.005			
3/3/2022		0.00012 (J)				<0.005	<0.005	<0.005
9/20/2022	<0.025			<0.005				
9/21/2022		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/28/2023						0.00157 (J)		0.00184 (J)
3/1/2023		<0.005						
3/2/2023	0.00205 (J)		<0.005	<0.005	0.00238 (J)		<0.005	
9/12/2023			<0.005			<0.005	<0.005	
9/13/2023		<0.005			<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	DPZ-02	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/14/2023	<0.025			<0.005				
3/19/2024						<0.005		<0.005
3/20/2024		<0.005					<0.005	
3/21/2024	<0.025		<0.005	<0.005	<0.005			
9/10/2024		<0.005				<0.005		<0.005
9/11/2024	0.00176 (J)		<0.005		<0.005		<0.005	
9/12/2024				<0.005				
Mean	0.01987	0.0044	0.004481	0.004476	0.004209	0.003738	0.004315	0.004397
Std. Dev.	0.01018	0.001525	0.001106	0.001613	0.001232	0.001602	0.001341	0.0018
Upper Lim.	0.025	0.005	0.005	0.0054	0.005	0.005	0.005	0.0067
Lower Lim.	0.00176	0.0025	0.0028	0.0024	0.0025	0.002	0.003	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/26/2024 9:28 AM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP

	MCM-06
8/31/2016	<0.002
11/30/2016	<0.002
2/16/2017	<0.002
6/2/2017	<0.002
8/17/2017	<0.002
6/20/2018	<0.002
9/27/2018	<0.002
11/7/2018	<0.002
3/6/2019	<0.002
8/28/2019	<0.002
10/17/2019	7.6E-05 (J)
3/28/2020	<0.002
9/14/2021	<0.002
3/1/2022	<0.002
9/20/2022	<0.002
3/2/2023	<0.002
9/14/2023	<0.002
3/21/2024	<0.002
9/12/2024	<0.002
Mean	0.001899
Std. Dev.	0.0004414
Upper Lim.	0.002
Lower Lim.	7.6E-05

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McManus Client: Southern Company Data: McManus AP Printed 11/26/2024, 9:43 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0003784	-13	-23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	5	23	No	10	80	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.1082**	**-43**	**-30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002384**	**30**	**23**	**Yes**	**10**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-15 (bg)	0.0005749	11	23	No	10	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	4	23	No	10	70	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0002044	-34	-45	No	16	12.5	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001483	9	45	No	16	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0005441	-14	-45	No	16	0	n/a	0.05	NP
Lithium (mg/L)	DPZ-02	-0.003635	-27	-27	No	11	9.091	n/a	0.05	NP
Lithium (mg/L)	MCM-01 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	23	No	10	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	0	23	No	10	70	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	1	23	No	10	90	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	13	37	No	14	57.14	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0.0003351	19	45	No	16	6.25	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0.0002343	18	45	No	16	0	n/a	0.05	NP

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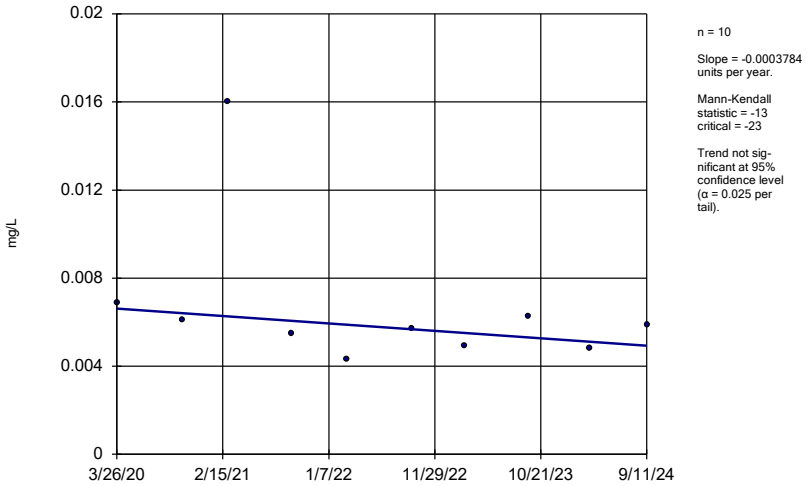
Sen's Slope Estimator

MCM-01 (bg)



n = 10

Slope = -0.0003784 units per year.

Mann-Kendall statistic = -13
critical = -23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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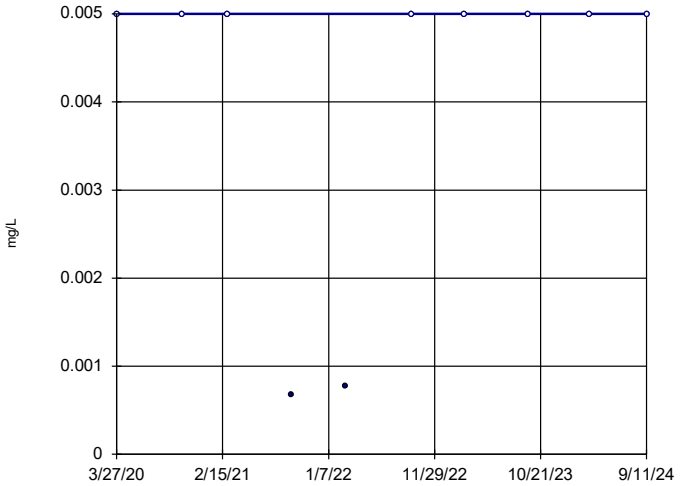
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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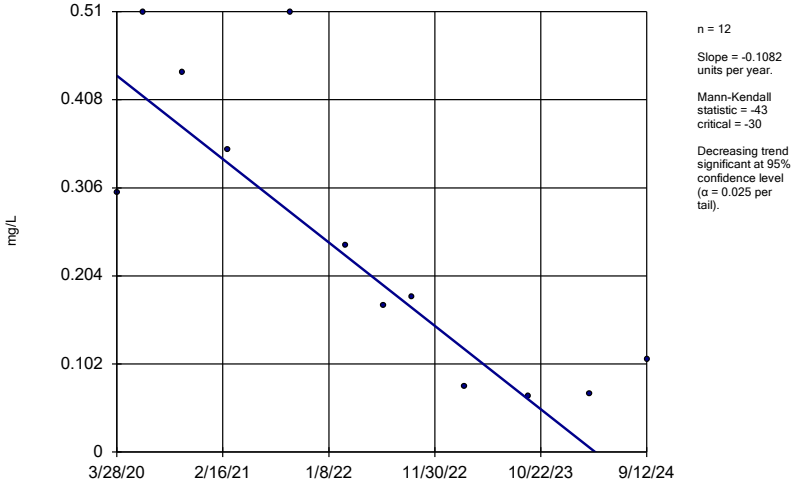
Sen's Slope Estimator

MCM-06



n = 12

Slope = -0.1082 units per year.

Mann-Kendall statistic = -43
critical = -30

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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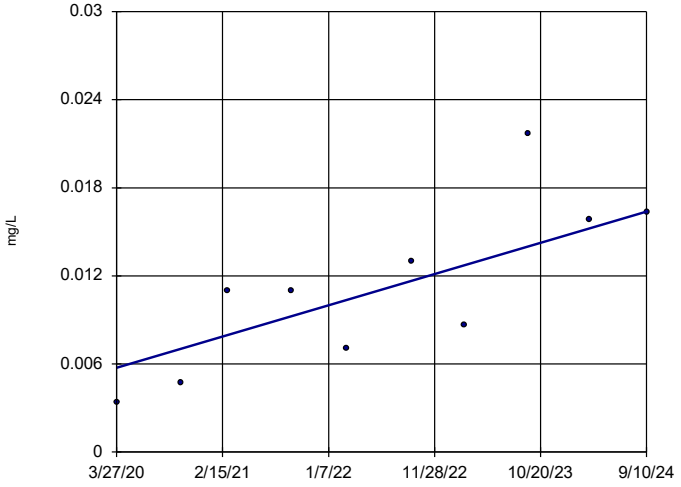
Sen's Slope Estimator

MCM-11 (bg)



n = 10

Slope = 0.002384 units per year.

Mann-Kendall statistic = 30
critical = 23

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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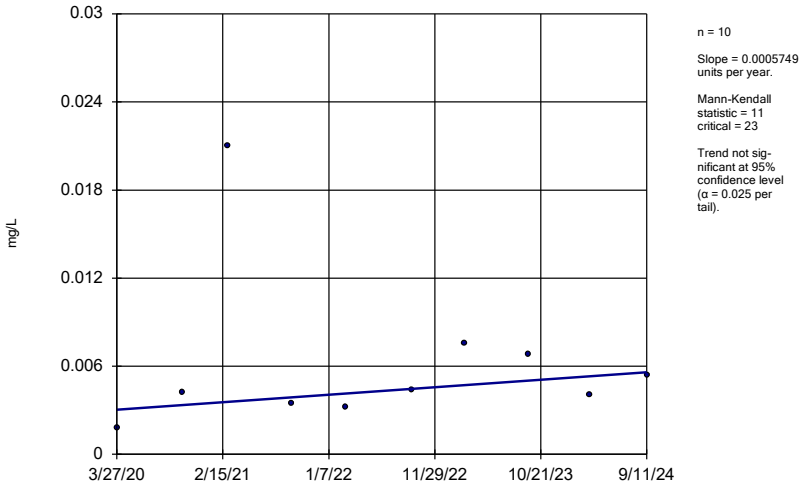
Sen's Slope Estimator

MCM-15 (bg)



n = 10

Slope = 0.0005749 units per year.

Mann-Kendall statistic = 11
critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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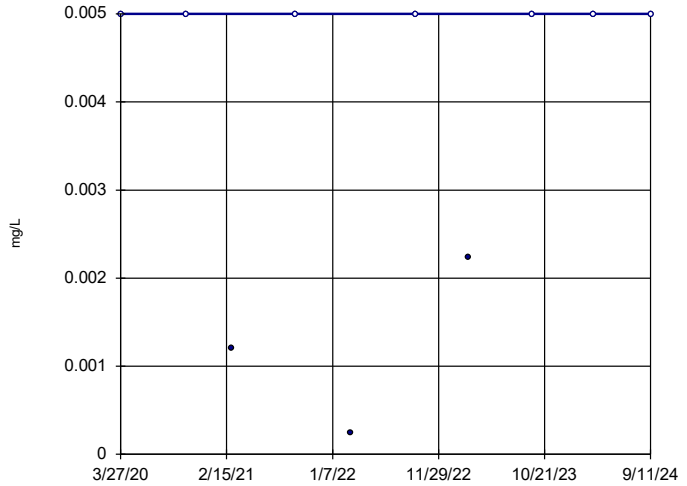
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 4
critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
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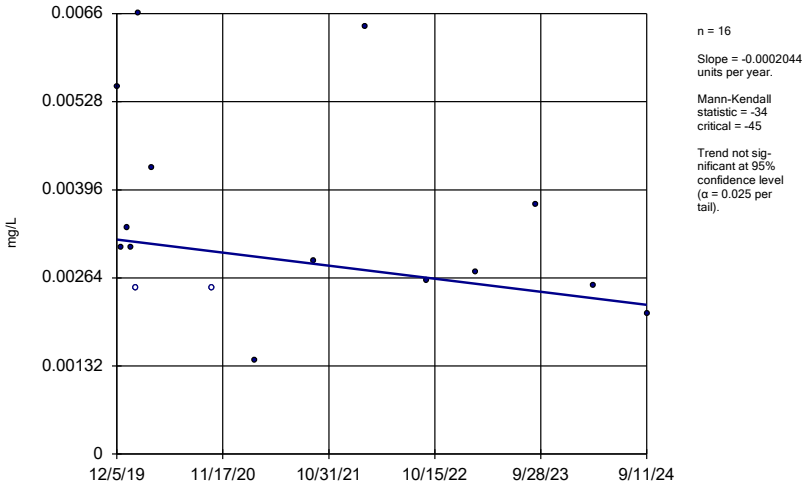
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 16

Slope = -0.0002044 units per year.

Mann-Kendall statistic = -34
critical = -45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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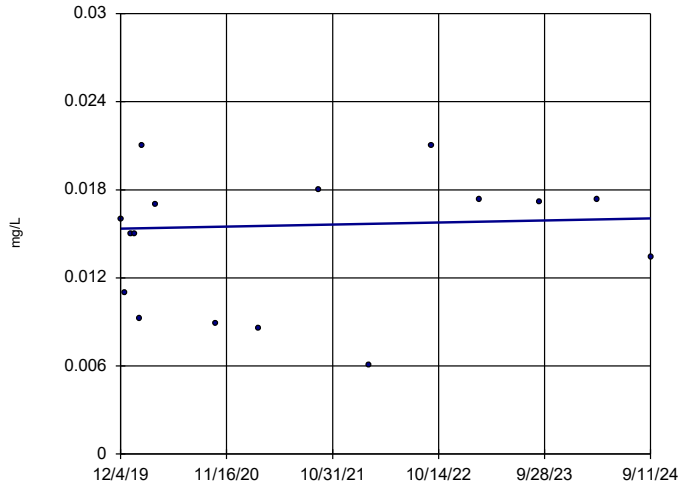
Sen's Slope Estimator

MCM-19 (bg)



n = 16

Slope = 0.0001483 units per year.

Mann-Kendall statistic = 9
critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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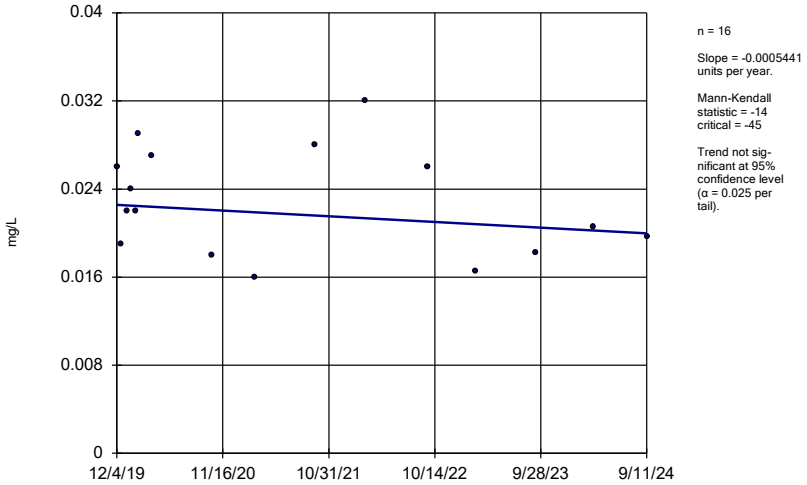
Sen's Slope Estimator

MCM-20 (bg)



n = 16

Slope = -0.0005441 units per year.

Mann-Kendall statistic = -14 critical = -45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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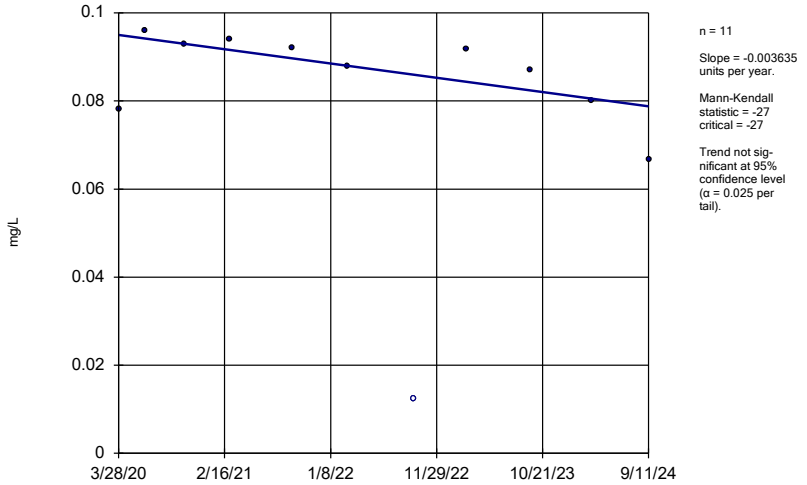
Hollow symbols indicate censored values.

Sen's Slope Estimator

DPZ-02



n = 11

Slope = -0.003635 units per year.

Mann-Kendall statistic = -27 critical = -27

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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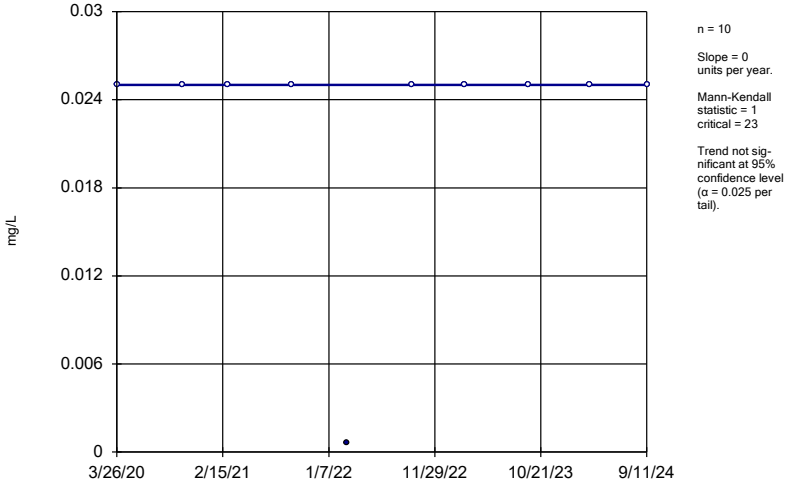
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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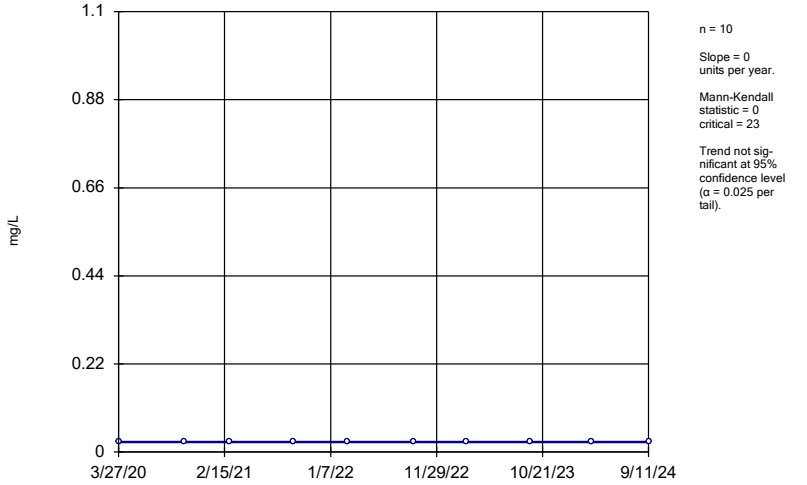
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests

Plant McManus Client: Southern Company Data: McManus AP

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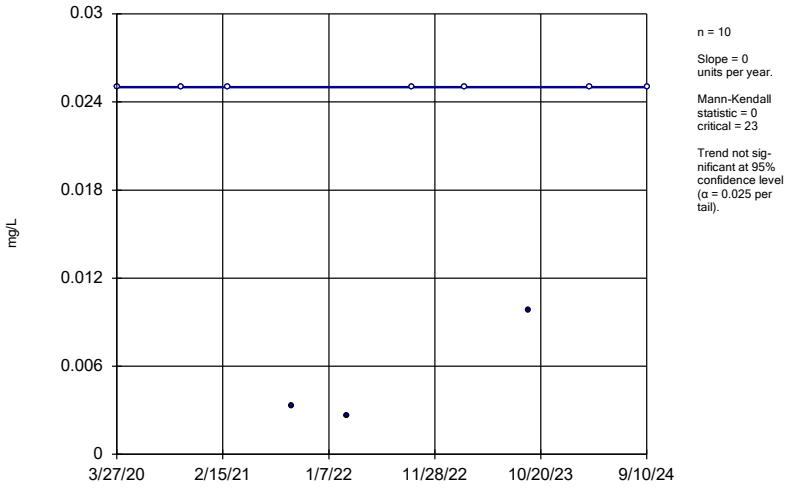
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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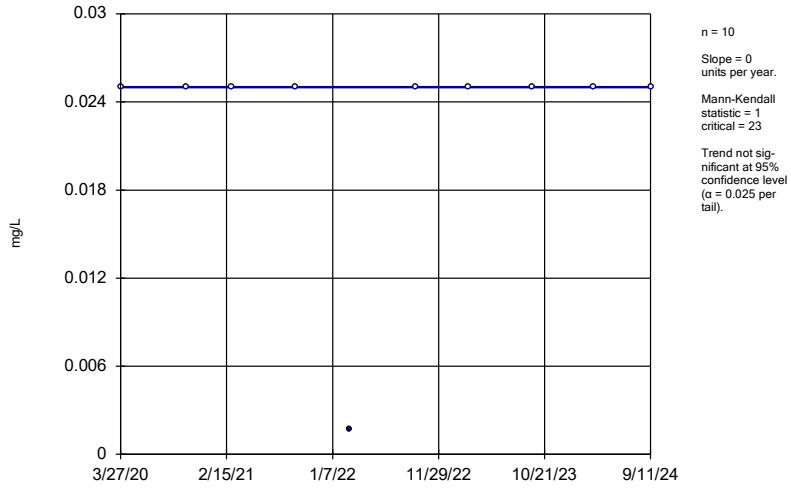
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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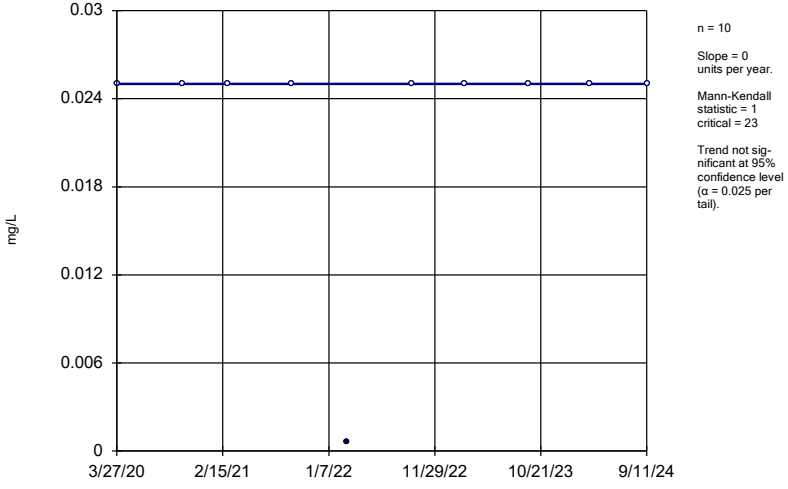
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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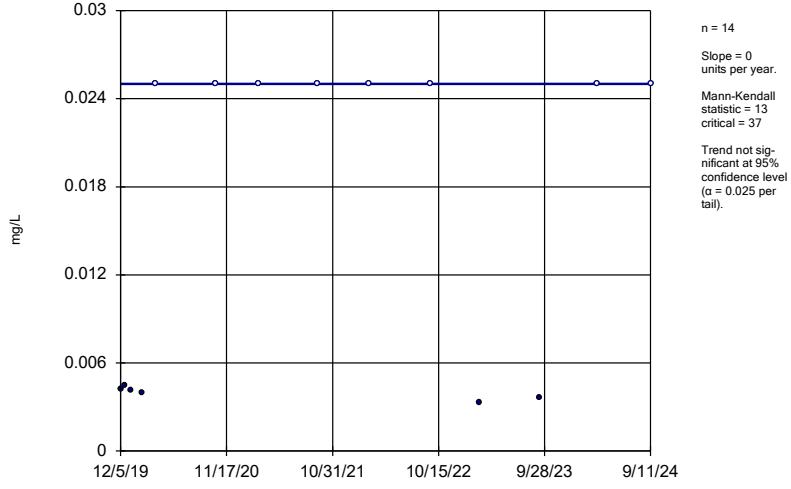
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 13 critical = 37

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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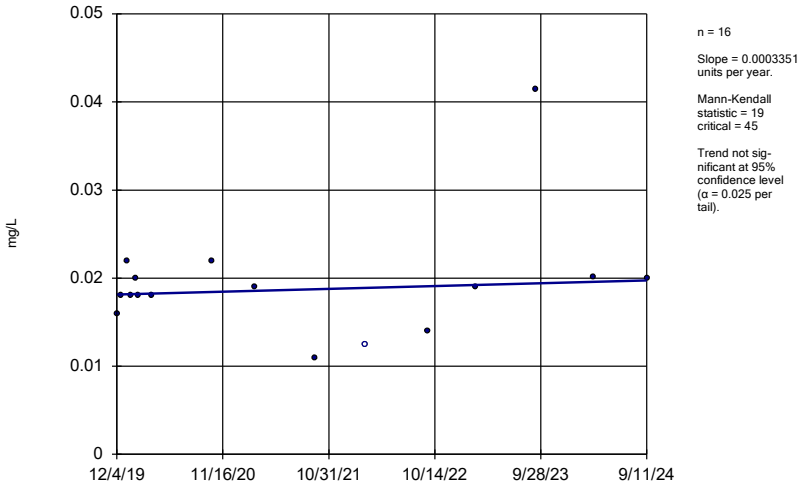
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-19 (bg)



n = 16

Slope = 0.0003351 units per year.

Mann-Kendall statistic = 19
critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

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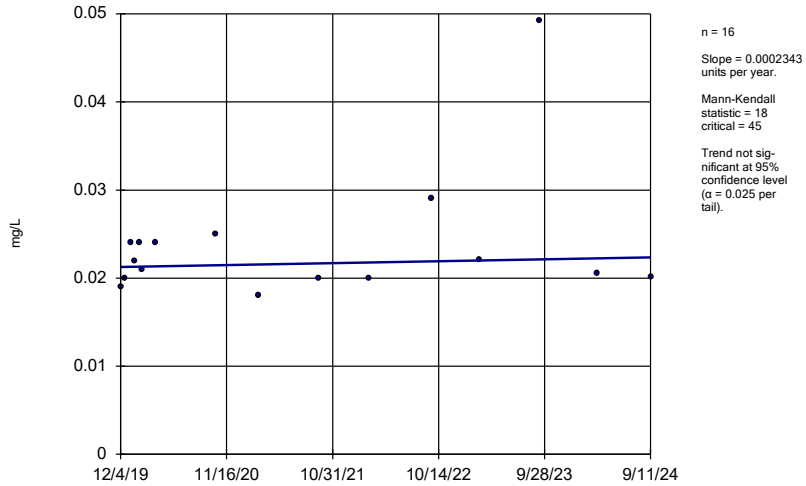
Sen's Slope Estimator

MCM-20 (bg)



n = 16

Slope = 0.0002343 units per year.

Mann-Kendall statistic = 18
critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/26/2024 9:40 AM View: Appendix IV Trend Tests
Plant McManus Client: Southern Company Data: McManus AP

APPENDIX F

ANNUAL POTABLE WELL SURVEY

ENSAFE
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Brunswick, GA 31523

Inquiry Number: 7826608.1s
November 19, 2024

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Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

MCMANUS
CRISPIN BLVD
BRUNSWICK, GA 31523

TARGET PROPERTY COORDINATES

Latitude (North):	31.215321 - 31° 12' 55.16''
Longitude (West):	81.545956 - 81° 32' 45.44''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	447995.8
UTM Y (Meters):	3453409.0
Elevation:	4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	31081-B5 BRUNSWICK WEST, GA
Version Date:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

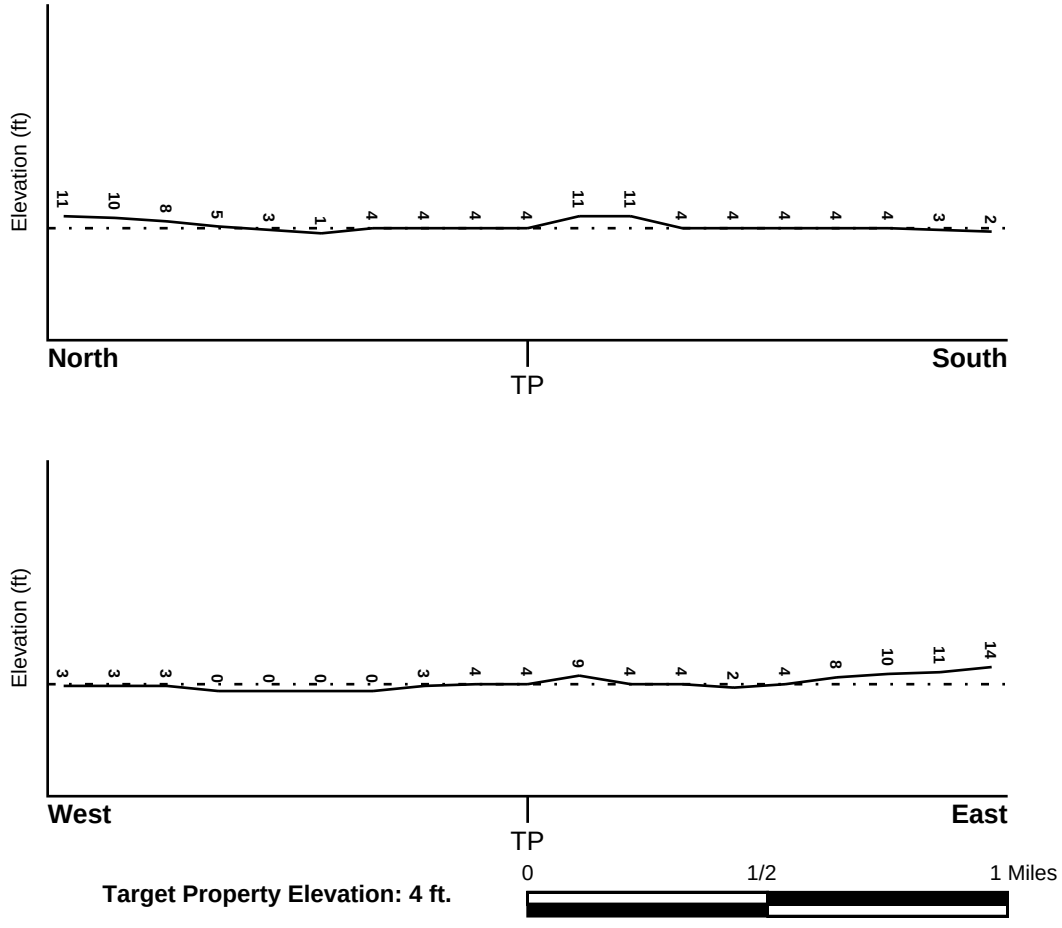
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 4 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13127C0208F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13127C0205F	FEMA FIRM Flood data
13127C0206F	FEMA FIRM Flood data
13039C0075F	FEMA FIRM Flood data
13127C0209F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BRUNSWICK WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7826608.1s

Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Mcmanus	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	Crispin Blvd Brunswick GA 31523	CONTACT:	Rebecca Steever
LAT/LONG:	31.215321 / 81.545956	INQUIRY #:	7826608.1s
		DATE:	November 19, 2024 12:03 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Mandarin

Soil Surface Texture: fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 77 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
2	18 inches	33 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
3	33 inches	61 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
4	61 inches	79 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Bohicket

Soil Surface Texture: stratified silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	stratified silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	64 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.1

Soil Map ID: 4

Soil Component Name: Sapelo

Soil Surface Texture: fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6
2	16 inches	25 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	25 inches	48 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6
4	48 inches	83 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	1.000
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	USGS40000255109	0 - 1/8 Mile SSW
B6	USGS40000255126	1/2 - 1 Mile East
C8	USGS40000255200	1/2 - 1 Mile NNE
C10	USGS40000255199	1/2 - 1 Mile NNE
D12	USGS40000255150	1/2 - 1 Mile ENE
E15	USGS40000255133	1/2 - 1 Mile East
F17	USGS40000255192	1/2 - 1 Mile NE
G19	USGS40000255185	1/2 - 1 Mile NE
H22	USGS40000255223	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I24	USGS40000255124	1/2 - 1 Mile East
G25	USGS40000255189	1/2 - 1 Mile NE
J28	USGS40000255142	1/2 - 1 Mile ENE
J31	USGS40000255151	1/2 - 1 Mile ENE
G32	USGS40000255198	1/2 - 1 Mile NE
K34	USGS40000255221	1/2 - 1 Mile NNE
L37	USGS40000255235	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

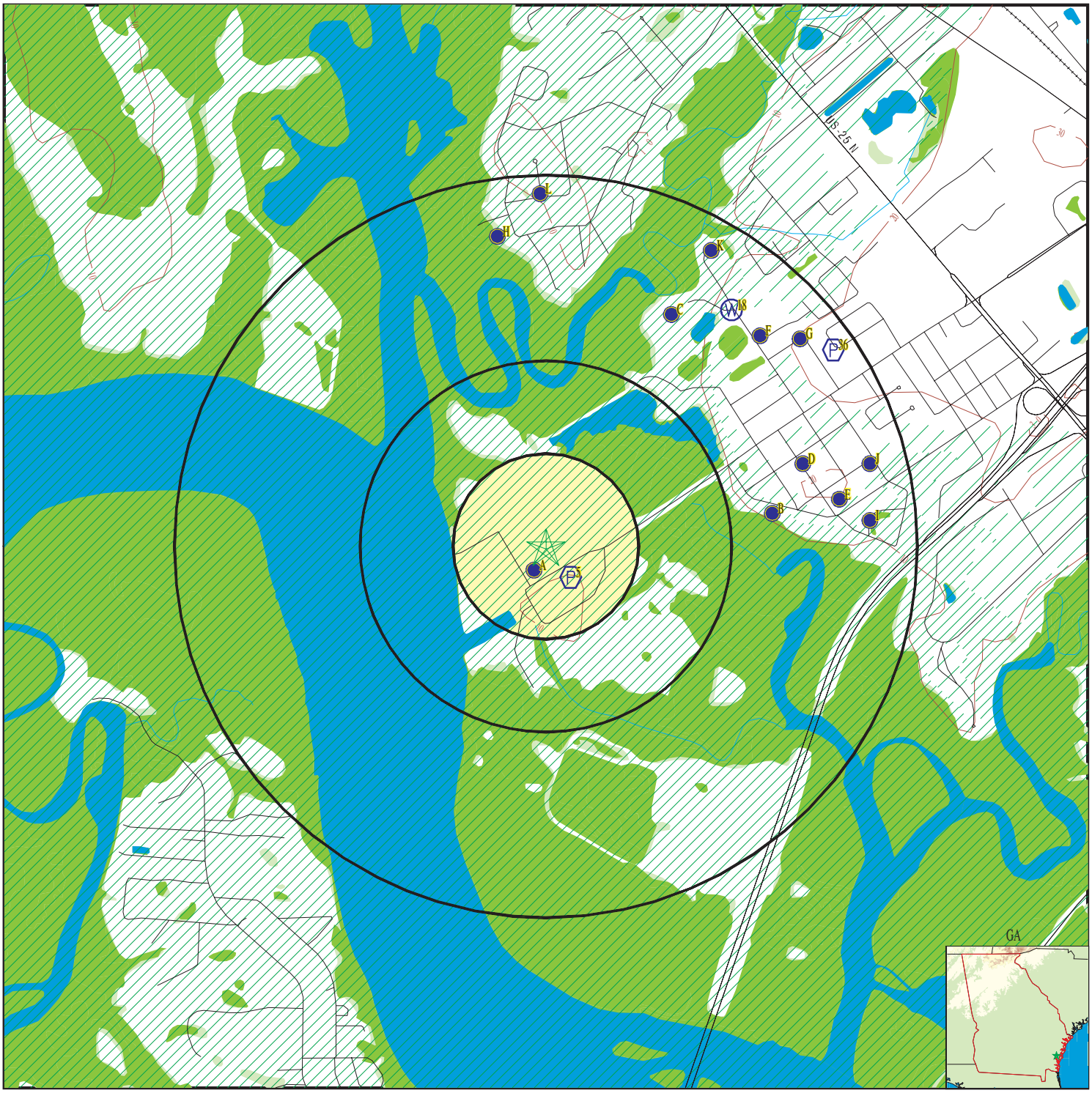
MAP ID	WELL ID	LOCATION FROM TP
5	GA1270027	0 - 1/8 Mile SE
36	GA1270058	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	0000005276	0 - 1/8 Mile SSW
A2	0000005277	0 - 1/8 Mile SSW
A3	0000005278	0 - 1/8 Mile SSW
B7	0000005287	1/2 - 1 Mile East
C9	0000005325	1/2 - 1 Mile NNE
C11	0000005324	1/2 - 1 Mile NNE
D13	0000005297	1/2 - 1 Mile ENE
E14	0000005289	1/2 - 1 Mile East
F16	0000005320	1/2 - 1 Mile NE
18	GAPR01000000052	1/2 - 1 Mile NE
G20	0000005317	1/2 - 1 Mile NE
H21	0000005339	1/2 - 1 Mile North
I23	0000005286	1/2 - 1 Mile East
G26	0000005318	1/2 - 1 Mile NE
G27	0000005319	1/2 - 1 Mile NE
J29	0000005292	1/2 - 1 Mile ENE
J30	0000005298	1/2 - 1 Mile ENE
G33	0000005323	1/2 - 1 Mile NE
K35	0000005338	1/2 - 1 Mile NNE
L38	0000005350	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 7826608.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Mcmanus	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	Crispin Blvd Brunswick GA 31523	CONTACT:	Rebecca Steever
LAT/LONG:	31.215321 / 81.545956	INQUIRY #:	7826608.1s
		DATE:	November 19, 2024 12:03 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005276**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	117.00
Casing dia:	12.00	Casing matl:	S
Depth to top:	600.00	Depth to bot:	983.00
Opening type:	X	Constr date:	19510312
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005276

A2
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005277**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	464.00
Casing dia:	8.00	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005277

A3
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005278**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	600.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005278

A4
SSW
0 - 1/8 Mile
Higher

FED USGS **USGS40000255109**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H051	Type:	Well
Description:	MCMANUS GA POWER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Not Reported	Construction Date:	19510312
Well Depth:	983	Well Depth Units:	ft
Well Hole Depth:	990	Well Hole Depth Units:	ft

5
SE
0 - 1/8 Mile
Higher

FRDS PWS GA1270027

Epa region:	04	State:	GA
Pwsid:	GA1270027	Pwsname:	GEORGIA POWER-PLANT MCMANUS
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13127
Status:	Active	Retpopsrvd:	40
Pwssvcconn:	16	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	BLALOCK, TANYA D.	Contactorgname:	BLALOCK, TANYA D.
Contactphone:	404-506-7026	Contactaddress1:	241 RALPH MCGILL BLVD.
Contactaddress2:	BIN 10221	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30308-3374
Pwsactivitycode:	A		

Pwsid:	GA1270027	Facid:	1067
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1270027	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	GEORGIA POWER-PLANT MCMANUS
PWS type code:	NTNC	Retail population served:	40
Contact:	HOWELL, DANNY	Contact address:	ONE CRISPEN ISLAND
Contact address:	BRUNSWICK	Contact city:	GA
Contact state:	31	Contact zip:	912-261-32
Contact telephone:	Not Reported		

PWS ID:	GA1270027	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000046	System name:	GEORGIA POWER-PLANT MCMANUS
System address:	GEORGIA POWER PLANT MCMANUS		
System address:	ONE CRISPEN ISLAND	System city:	BRUNSWICK
System state:	GA	System zip:	31520

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	311250	Longitude:	0813242

Violation id:	10204	Orig code:	S
State:	GA	Violation Year:	1994
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	51	Violation name:	Initial Tap Sampling for Pb and Cu
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1994
Cmp edt:	Not Reported		

Violation id:	10307	Orig code:	S

State:	GA	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	09/30/2006		

Violation ID:	10204	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/08/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10204	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/08/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	10/18/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	11/28/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	10/18/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10204	Contaminant:	Lead & Copper Rule
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	1/1/1994 0:00:00	Compliance end date:	12/8/2000 0:00:00
Enforcement date:	12/8/2000 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10204	Contaminant:	Lead & Copper Rule
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	1/1/1994 0:00:00	Compliance end date:	12/8/2000 0:00:00
Enforcement date:	2/3/1999 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	10/18/2006 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	10/18/2006 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name: GEORGIA POWER-PLANT MCMANUS

Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	11/28/2006 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

B6
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255126**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H233	Type:	Well
Description:	RANDY MCDONALD	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19910122
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-05-15
Feet below surface:	5.70	Feet to sea level:	Not Reported
Note:	Not Reported		

B7
East
1/2 - 1 Mile
Higher

GA WELLS **0000005287**

County code:	127	Well num:	33H233
Remarks:	RANDY MCDONALD	Lat:	311259
Lon:	0813209	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	200	Depth to casing:	152
Casing dia:	4	Casing matl:	P
Depth to top:	152	Depth to bot:	200
Opening type:	X	Constr date:	19910122
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005287

C8
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255200**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H199	Type:	Well
Description:	SAPP, WOODROW SR.	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Miocene Series
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	9	Level reading date:	1983-11-09
Feet below surface:	2.05	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-03-18	Feet below surface:	1.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	1.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-25	Feet below surface:	3.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	3.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	3.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	3.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-22	Feet below surface:	3.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-21	Feet below surface:	4.33
Feet to sea level:	Not Reported	Note:	Not Reported

C9
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000005325**

County code:	127	Well num:	33H199
Remarks:	SAPP, WOODROW SR.	Lat:	311327
Lon:	0813226	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	Not Reported
Aquifer code:	122MOCN	Edr id:	0000005325

C10
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255199**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H242	Type:	Well
Description:	BOBBY SAPP	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19881103
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-29
Feet below surface:	4.92	Feet to sea level:	Not Reported
Note:	Not Reported		

C11
NNE **GA WELLS** **0000005324**
1/2 - 1 Mile
Higher

County code:	127	Well num:	33H242
Remarks:	BOBBY SAPP	Lat:	311327
Lon:	0813225	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	200	Depth to casing:	158
Casing dia:	4	Casing matl:	S
Depth to top:	158	Depth to bot:	200
Opening type:	X	Constr date:	19881103
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005324

D12
ENE **FED USGS** **USGS40000255150**
1/2 - 1 Mile
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H279	Type:	Well
Description:	JOYCE GOOGE	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19890909
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-17
Feet below surface:	12.90	Feet to sea level:	Not Reported
Note:	Not Reported		

D13
ENE **GA WELLS** **0000005297**
1/2 - 1 Mile
Higher

County code:	127	Well num:	33H279
Remarks:	JOYCE GOOGE	Lat:	311306
Lon:	0813204	Latlon datum:	NAD27
Alt:	17.0	Alt datum:	NGVD29
Depth:	200	Depth to casing:	166
Casing dia:	4.0	Casing matl:	G
Depth to top:	166	Depth to bot:	200
Opening type:	X	Constr date:	19890909
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005297

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
E14 **East** **1/2 - 1 Mile** **Higher**	**GA WELLS**	**0000005289**

County code:	127	Well num:	33H253
Remarks:	RANDALL HOWELL	Lat:	311301
Lon:	0813158	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	180	Depth to casing:	151
Casing dia:	4.5	Casing matl:	P
Depth to top:	151	Depth to bot:	180
Opening type:	X	Constr date:	19900726
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005289

E15
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255133**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H253	Type:	Well
Description:	RANDALL HOWELL	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900726
Well Depth:	180	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-11
Feet below surface:	15.37	Feet to sea level:	Not Reported
Note:	Not Reported		

F16
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005320**

County code:	127	Well num:	33H281
Remarks:	STAN BOATRIGHT	Lat:	311324
Lon:	0813211	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	200	Depth to casing:	156
Casing dia:	4	Casing matl:	S
Depth to top:	156	Depth to bot:	200
Opening type:	X	Constr date:	19890805
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005320

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F17
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255192**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H281	Type:	Well
Description:	STAN BOATRIGHT	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19890805
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1989-08-05
Feet below surface:	11	Feet to sea level:	Not Reported
Note:	Not Reported		

18
NE
1/2 - 1 Mile
Higher

GA WELLS **GAPR01000000052**

Report ID:	1	Well Type:	Drilled Well
Well Age (yrs):	2	Well Depth (ft):	0
Coliform Test:	Satisfactory	Date Taken:	19-MAY-22
Results Date:	20-MAY-22	Coliform Present:	No
Fecal Present:	No		

G19
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255185**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H315	Type:	Well
Description:	A. R. SADTLER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900711
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	200	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-11
Feet below surface:	13.69	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G20
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005317**

County code:	127	Well num:	33H315
Remarks:	A. R. SADTLER	Lat:	311322
Lon:	0813206	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	200	Depth to casing:	157
Casing dia:	4.5	Casing matl:	P
Depth to top:	157	Depth to bot:	200
Opening type:	X	Constr date:	19900711
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005317

H21
North
1/2 - 1 Mile
Higher

GA WELLS **0000005339**

County code:	127	Well num:	33H294
Remarks:	MICHAEL DOWDY	Lat:	311338
Lon:	0813254	Latlon datum:	NAD27
Alt:	5	Alt datum:	NGVD29
Depth:	160	Depth to casing:	120
Casing dia:	4.5	Casing matl:	P
Depth to top:	120	Depth to bot:	160
Opening type:	X	Constr date:	19900509
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005339

H22
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000255223**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H294	Type:	Well
Description:	MICHAEL DOWDY	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900509
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-09
Feet below surface:	-.46	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I23
East
1/2 - 1 Mile
Higher

GA WELLS **0000005286**

County code:	127	Well num:	33H280
Remarks:	BOB BOWERS	Lat:	311258
Lon:	0813153	Latlon datum:	NAD27
Alt:	17.5	Alt datum:	NGVD29
Depth:	200	Depth to casing:	153
Casing dia:	4	Casing matl:	S
Depth to top:	153	Depth to bot:	200
Opening type:	X	Constr date:	19890504
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005286

I24
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255124**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H280	Type:	Well
Description:	BOB BOWERS	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19890504
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1989-05-04
Feet below surface:	10	Feet to sea level:	Not Reported
Note:	Not Reported		

G25
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255189**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H132	Type:	Well
Description:	OAK BLUFF SUBDIVISON	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19631001
Well Depth:	736	Well Depth Units:	ft
Well Hole Depth:	736	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005318**

County code:	127	Well num:	33H132
Remarks:	OAK BLUFF SUBDIVISON	Lat:	311323
Lon:	0813203	Latlon datum:	NAD27
Alt:	20.96	Alt datum:	NGVD29
Depth:	736	Depth to casing:	100.00
Casing dia:	4.00	Casing matl:	Not Reported
Depth to top:	499.00	Depth to bot:	736.00
Opening type:	X	Constr date:	19631001
Discharge:	Not Reported	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000005318

G27
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005319**

County code:	127	Well num:	33H132
Remarks:	OAK BLUFF SUBDIVISON	Lat:	311323
Lon:	0813203	Latlon datum:	NAD27
Alt:	20.96	Alt datum:	NGVD29
Depth:	736	Depth to casing:	499.00
Casing dia:	3.00	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000005319

J28
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255142**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H197	Type:	Well
Description:	JOE NELSON (SHALLOW)	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	1975
Well Depth:	260	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	9	Level reading date:	1983-11-09
Feet below surface:	9.65	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-03-18	Feet below surface:	8.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	8.25
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-01-25	Feet below surface:	9.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	9.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	10.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-22	Feet below surface:	11.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-24	Feet below surface:	11.45
Feet to sea level:	Not Reported	Note:	Not Reported

J29
ENE
1/2 - 1 Mile
Higher

GA WELLS **0000005292**

County code:	127	Well num:	33H197
Remarks:	JOE NELSON (SHALLOW)	Lat:	311305
Lon:	0813153	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	260	Depth to casing:	240
Casing dia:	2	Casing matl:	Not Reported
Depth to top:	240	Depth to bot:	260
Opening type:	X	Constr date:	1975
Discharge:	Not Reported	Prim use:	H
Aquifer code:	122MOCN	Edr id:	0000005292

J30
ENE
1/2 - 1 Mile
Higher

GA WELLS **0000005298**

County code:	127	Well num:	33H254
Remarks:	TERRY RAPE	Lat:	311307
Lon:	0813153	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	220	Depth to casing:	156
Casing dia:	4.5	Casing matl:	P
Depth to top:	156	Depth to bot:	220
Opening type:	X	Constr date:	19900720
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005298

J31
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255151**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H254	Type:	Well
Description:	TERRY RAPE	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900720
Well Depth:	220	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1990-07-20
Feet below surface:	18	Feet to sea level:	Not Reported
Note:	Not Reported		

G32
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255198**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H198	Type:	Well
Description:	H. O. NAIL	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19820401
Well Depth:	180	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	14	Level reading date:	1990-05-19
Feet below surface:	17.10	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1988-05-23	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-10-14	Feet below surface:	13.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-13	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-09	Feet below surface:	12.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-17	Feet below surface:	10.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	10.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-25	Feet below surface:	12.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	12.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	12.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	12.63
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-06-22	Feet below surface:	13.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-19	Feet below surface:	14.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-18	Feet below surface:	13
Feet to sea level:	Not Reported	Note:	Not Reported

G33
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005323**

County code:	127	Well num:	33H198
Remarks:	H. O. NAIL	Lat:	311326
Lon:	0813205	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	180	Depth to casing:	152
Casing dia:	4	Casing matl:	Not Reported
Depth to top:	152	Depth to bot:	180
Opening type:	X	Constr date:	19820401
Discharge:	Not Reported	Prim use:	H
Aquifer code:	122MOCN	Edr id:	0000005323

K34
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255221**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H318	Type:	Well
Description:	GARY LANE	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1988
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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K35
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000005338**

County code:	127	Well num:	33H318
Remarks:	GARY LANE	Lat:	311336
Lon:	0813219	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	4	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1988
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005338

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

36
NE
1/2 - 1 Mile
Higher

FRDS PWS **GA1270058**

Epa region:	04	State:	GA
Pwsid:	GA1270058	Pwsname:	OAK ACRES SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13127
Status:	Active	Retpopsrvd:	36
Pwssvcconn:	14	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	SAPP, JR, WOODROW	Contactorgname:	SAPP, JR, WOODROW
Contactphone:	912-265-2603	Contactaddress1:	4774 NEW JESUP HIGHWAY
Contactaddress2:	Not Reported	Contactcity:	BRUNSWICK
Contactstate:	GA	Contactzip:	31520
Pwsactivitycode:	A		

Pwsid:	GA1270058	Facid:	1080
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1270058	PWS name:	OAK ACRES SUBDIVISION
Address:	3 OAK ACRES ROAD	Care of:	OAK ACRES SUBDIVISION
City:	BRUNSWICK	State:	GA
Zip:	31523	Owner:	OAK ACRES SUBDIVISION
Source code:	Ground water	Population:	38

PWS ID:	GA1270058	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	GLYNN
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	38

PWS ID:	GA1270058	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000050	System name:	OAK ACRES SUBDIVISION
System address:	OAK ACRES S/D	System address:	11 OAK ACRES
System city:	BRUNSWICK	System state:	GA
System zip:	31520		

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	311322	Longitude:	0813159

State:	GA	Latitude degrees:	31
Latitude minutes:	13	Latitude seconds:	22.0000
Longitude degrees:	81	Longitude minutes:	31
Longitude seconds:	59.0000		

L37
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000255235**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H298	Type:	Well

Description:	JOHN RINNIER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900404
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-10
Feet below surface:	1.41	Feet to sea level:	Not Reported
Note:	Not Reported		

L38
North
1/2 - 1 Mile
Higher

GA WELLS **0000005350**

County code:	127	Well num:	33H298
Remarks:	JOHN RINNIER	Lat:	311344
Lon:	0813247	Latlon datum:	NAD27
Alt:	11	Alt datum:	NGVD29
Depth:	160	Depth to casing:	121
Casing dia:	4.5	Casing matl:	P
Depth to top:	121	Depth to bot:	160
Opening type:	X	Constr date:	19900404
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005350

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for GLYNN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for GLYNN COUNTY, GA

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.260 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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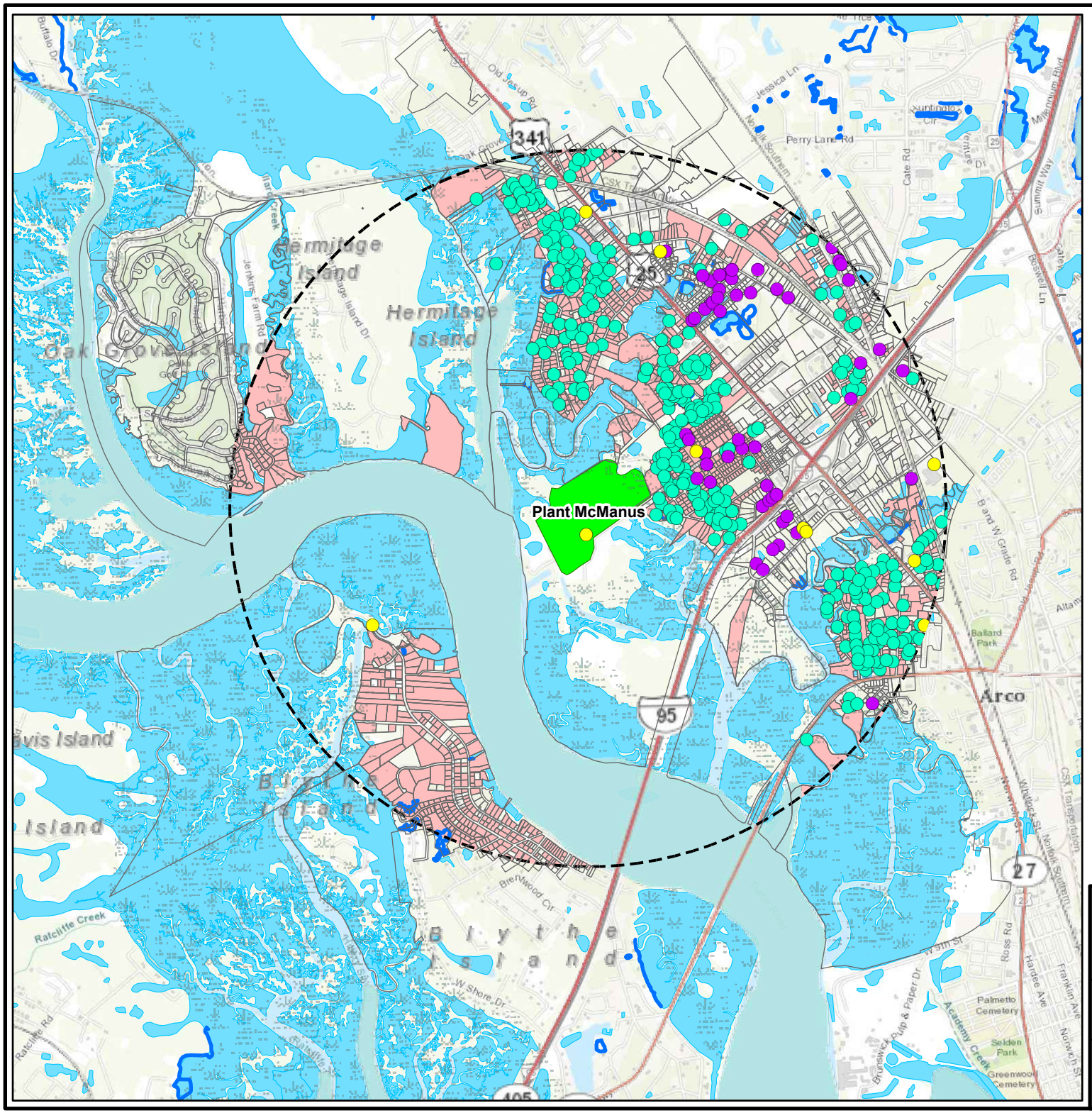

LEGEND

- Water Wells
- Inactive Private Irrigation/Drinking Well
- Private Drinking Well
- 2-Mile Radius
- Ash Pond 1
- Hydro Lines
- Lakes and Ponds
- Parcels
- Parcels Identified as Likely Having a Well

NOTE:
1) WELLS IDENTIFIED BY PARCEL LOCATION BUT THAT DO NOT HAVE AN EXACT LOCATION AVAILABLE ARE PRESENTED AS INSIDE THE 2-MILE RADIUS IF THE PARCEL STRADDLES THE INVESTIGATION BOUNDARY.

N W E S

0 2,000 4,000 8,000

GRAPHIC SCALE IN FEET

Georgia Power

PLANT MCMANUS ASH POND 1
BRUNSWICK, GA

WATER WELL SURVEY

ARCADIS

FIGURE
1

PATH: T:_ENV\GA_PowerPlant_McManus_Brunswick_GA\Water_Well_Survey_Proj\Water_Wells\Water_Wells.aprx\ Fig_1_Water_Well_Survey Last Saved by : tdrum 1/5/2024