

2022 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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Georgia Power Company

2022 Semiannual Groundwater Monitoring and Corrective Action Report

Plant McManus
Former Ash Pond 1 (AP-1)

February 28, 2023



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CERTIFICATION STATEMENT

This 2022 *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] 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, and 40 CFR Part 258.50(g).

RESOLUTE ENVIRONMENTAL & WATER RESOURCES CONSULTING, LLC

Signature:



Morris L. Maslia, P.E.


Date:

February, 28 2023

SUMMARY

This summary of the 2022 Semiannual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from July 2022 through December 2022 (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 6¹ 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 Crispin 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 18th, 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 semiannual reporting period, the Site remained in assessment monitoring as corrective measures were evaluated.

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

During the semiannual reporting period, Resolute conducted the semiannual groundwater and surface water sampling events in September 2022. Samples were submitted to either Pace Analytical (Pace) or Eurofins Environmental Testing (Eurofins) 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 III² and Appendix IV³ parameters in wells provided in the table below.

| Appendix III Parameter | September 2022 |
|--|--|
| Boron | MCM-17 |
| Calcium | MCM-07 |
| pH | MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17 |
| Appendix IV Parameter⁴ | September 2022 |
| Arsenic | MCM-06 |
| Lithium | MCM-06 and DPZ-02 |

Based on review of the Appendix III and Appendix IV statistical results, the Site will continue in assessment monitoring. Alternate source demonstrations (ASD) were submitted for lithium at wells MCM-06 and DPZ-02 on November 17, 2020 and April 29, 2022, respectively. Conditional concurrence was provided by GA EPD for MCM-06 and DPZ-02 on April 22, 2021, and June 17, 2022, respectively. Georgia Power will continue routine groundwater monitoring, reporting, and groundwater remedy evaluation at the Site. Reports will be posted to the 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 A 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 *2022 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).

The former AP-1 ceased receiving waste prior to the effective date of the USEPA CCR rule promulgated in April 2015. A notification of intent to initiate closure of the former CCR ash pond was certified on December 7, 2015, and posted to Georgia Power's website. Therefore, groundwater monitoring and reporting for the former AP-1 are being completed in accordance with the alternate schedule in § 257.100(e)(5) of the revised USEPA CCR rule (August 5, 2016).

This report documents semiannual monitoring activities completed from July 2022 through December 2022 (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.

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 Floridan 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 2 and 3). 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 1), 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. Pursuant to § 257.195(g)(1)(iv), the well classified as “assessment well” (formerly known as “delineation well”) will continue to be sampled concurrently with the detection monitoring well network (formerly known as “compliance monitoring wells”) as part of the ongoing assessment groundwater monitoring program.

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 location of the detection monitoring wells, assessment wells, and piezometers are shown on Tables 2 and 3 and Figures 4 and 5.

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

In May 2022, six piezometers (DR-01, DR-02, PT-01, PT-02, PT-03, PT-04D) were installed and developed in the vicinity of MCM-06 to aid in the ACM evaluation at MCM-06. Additional details are presented in the Draft Remedy Selection Report by Arcadis U.S., Inc. (Arcadis), submitted to EPD under a separate cover on February 28, 2023. Piezometer locations are shown on Figures 5, and construction details are included in Table 3. A well installation report that includes detailed boring and well construction logs is provided in Appendix A.

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 2022, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix A. In summary, monitoring 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; and,
- Re-development of existing wells: MCM-06, and DPZ-02.

- Well Pad and Vault Maintenance of MW-04, PT-03 and DR-01.
- Installation of LevelTroll 500 transducer in MCM-10 and replacement of AquaTroll 200 transducers in MCM-17, MCM-19, and MCM-20 on September 27, 2022.
- Installation of AquaTroll 200 transducers in piezometers PT-01, PT-02, PT-03, and PT-04D.

The well maintenance and repair documentation from July 2022 through December 2022 are presented in Appendix A.

2.2 ASSESSMENT MONITORING

Based on results of the August 2019 *Annual Groundwater and Corrective Action Monitoring Report*, assessment monitoring was initiated at the Site. Currently identified SSLs of Appendix IV constituents exceeding their respective GWPS at former AP-1 are arsenic in MCM-06 and lithium in MCM-06 and DPZ-02.

An alternate source demonstration (ASD) was prepared and submitted to GA EPD for lithium at wells MCM-06 and DPZ-02 on November 17, 2020, and April 29, 2022, respectively. Conditional concurrence was provided by GA EPD for MCM-06 and DPZ-02 on April 22, 2021, and June 17, 2022, respectively. Additional details of these ASDs are presented in Section 5.

Pursuant to § 257.96, an Assessment of Corrective Measures Report (ACM) was initiated for the former AP-1 in 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. 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 (Table 4) in the monitoring event conducted in September 2022. 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 B. The statistical results are discussed in Section 4.

2.3 ADDITIONAL SAMPLING

2.3.1 ACM Sampling

To provide additional information for the ACM, the six newly installed piezometers (PT-01, PT-02, PT-03, PT-04D, DR-01, and DR-02) and nearby wells (MCM-06 and DPZ-02) were sampled in June and September 2022. Refer to Figure 6 and 7. Results for the new piezometers are provided in the Draft Remedy Selection Report submitted under a separate cover by Arcadis on February 28, 2023. Results for MCM-06 and DPZ-02 are provided in Table 5a and 5b.

Groundwater collected during the supplemental June 2022 sampling and September 2022 monitoring event were analyzed for additional geochemical parameters (magnesium, potassium, sodium, sulfide, alkalinity, and iron). The data were collected in support of evaluating the geochemical composition of the groundwater and surface water in conjunction with the ACM and ASD activities.

The laboratory reports associated with the data described above are provided in Appendix B.

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. Georgia Power collects surface water samples along four transects (T1 through T4) in the tidal marsh adjacent to wells MCM-07, MCM-06, MCM-05, and MCM-14, respectively (Figure 8 and 9). Background surface water samples are collected at a low tide background location, BG-1LT, in Cowpen Creek, north of its confluence with Burnett Creek, and at high tide background location, BG-2HT, located in the Turtle River, north of its confluence with Gibson Creek. Surface water samples are collected in accordance with USEPA Region 4 Science and Ecosystem Support Division (SESD), Operating Procedure, Surface Water Sampling SESDPROC-201-R4 (December 16, 2016).

September and December 2022 Sampling

In September 2022, surface water samples were collected during high tide (HT, HTS, HS, HB) from each point along transects T2 and T4 and from the outmost creek locations in transects T1 and T3. Low tide surface water samples (L, LT) were collected from each transect at the fourth location (i.e., T1-4, T2-4, T3-4, T4-4). In December 2022, surface water samples were collected during high tide from the interior points along transects T1 and T3 which included locations T1-1, T1-2, T1-3, T3-1, T3-2 and T3-3.

June 2022 Sampling

Although the June 2022 event was performed outside of this reporting period, the analytical data was not complete enough to provide analysis and discussion in the prior report. Therefore, the event is presented here, as mentioned in the 2022 Annual Groundwater Monitoring and Corrective Action Report.

In June 2022, samples were collected during high tide (HT, HTS, HS, HB) at each transect at the fourth location (i.e., T1-4, T2-4, T3-4, T4-4) with additional samples being collected at the transects 2 and 4 at the first, second, and third locations. An additional high tide background sample was collected at background location 1 (BG-1HT).

Surface water collected during the June 2022 and September 2022 sampling were analyzed for arsenic, Appendix III parameters, and additional geochemical parameters (magnesium, potassium, sodium, sulfate, alkalinity). The laboratory reports associated with the surface water sampling events are provided in Appendix C and a summary of the results are presented in Table

6. Surface water data from this reporting period are consistent with historical results. Georgia Power will continue collecting the surface water samples semiannually to support assessment of corrective measures.

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 13 wells (MCM-01, -02, -04 through -07, -11, -12, -14 through -16 and -18, and DPZ-02) and 8 piezometers (MCM-03, -08, -13, DPZ-01, and DPZ-03 through -06). When other wells and piezometers in the network are utilized for potentiometric surface maps, they were gauged by hand using a Heron water level indicator. Groundwater elevations calculated during the September 2022 monitoring events are summarized in Table 1. Groundwater elevation data was used to develop a high tide and low tide potentiometric surface elevation contour map for each event (Figures 2 and 3). 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 $\left(\frac{\text{feet}}{\text{day}}\right)$

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

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

η_e = Effective porosity

Horizontal groundwater flow velocities were calculated for two well pairs at high and low tide using groundwater elevations collected from transducer measurements on September 21, 2022 and September 22, 2022. Groundwater flow velocities representing groundwater 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 0.0064 feet per day (ft/day) at low tide and 0.0090 ft/ day at high tide in September 2022, while groundwater flow for MCM-11 and MCM-12 was 0.0309 ft/ day at low tide and 0.0360 ft/day at high tide. The groundwater direction during both high and low tide was from former AP-1 to the marsh. Average groundwater flow velocities were 0.0023 ft/day or 8.21 feet per year (ft/year) at high tide and 0.019 ft/day or 6.82 ft/yr at low tide in September 2022.

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
- $\pm 5\%$ for specific conductance
- ± 0.2 milligrams per liter (mg/L) or $\pm 10\%$, 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, unfiltered samples were collected in appropriately preserved laboratory-supplied containers, placed in ice-packed coolers. No filtered samples were collected during this reporting period.

Upon completion of the sampling events, samples were submitted to Pace Analytical in June 2022 and Eurofins in September and December 2022 following chain-of-custody protocol. The field sampling forms generated during the assessment monitoring events conducted during this reporting period are included in Appendix B.

3.4 LABORATORY ANALYSES

Laboratory analysis was performed by Pace Analytical or Eurofins, which are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all Appendix III and Appendix IV constituents analyzed for this project.

The groundwater analytical results from the June 2022 supplemental sampling event and the September 2022 semiannual assessment monitoring event are summarized in Table 5a and 5b, and the laboratory analytical reports are provided in Appendix B. The surface water results for the June 2022 and September 2022 events are summarized in Table 6, and the laboratory analytical reports are provided in Appendix C. The pH field measurements recorded during the groundwater sampling events are also provided in Table 5a.

3.5 QUALITY ASSURANCE AND QUALITY CONTROL

During each sampling event, quality assurance/quality control samples (QA/QC) were collected. QA/QC samples included field blanks (FB taken daily, field equipment rinsate blanks (EB) taken when nondedicated sampling equipment was utilized, and one duplicate (DUP) sample taken per every 10 samples. QA/QC sample data were evaluated during groundwater data validation (as described below) and are included in Appendix B.

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 September 2022 are acceptable for meeting project objectives, and the results are considered valid. The associated data validation results are provided in Appendix B 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 D (GSC, 2022). A summary of methods and results are 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 statistical analysis package provided in Appendix D 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 2022 sample event.

If data from a sampling event initially exceed 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 SSL is determined. When the resample result does not verify the initial result, there is no SSL. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix IV Constituents

Background limits were used when determining the Appendix IV GWPS under USEPA rule 40 CFR § 257.95(h) and GA EPD CCR Rule 391-3-4-.10(6)(a). Parametric tolerance limits were used to calculate background limits from pooled upgradient well data when data followed a normal or transformed-normal distribution for Appendix IV parameters with a target of 95% confidence and 95% coverage. When data contained greater than 50% non-detects or when the data distribution did not follow a normal or transformed-normal distribution, a nonparametric tolerance limit was used. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in 40 CFR § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

- (1) The maximum contaminant level (MCL) established under 40 CFR §141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above rule requirements, 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 D, 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 SSLs were identified during the current reporting period:

September 2022 Assessment Monitoring Event

AP-1 (Federal and GA EPD CCR Rule):

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

An ASD was prepared and submitted to GA EPD for lithium at wells MCM-06 and DPZ-02 on November 17, 2020, and April 29, 2022, respectively. Conditional concurrence was provided by GA EPD for MCM-06 and DPZ-02 on April 22, 2021, and June 17, 2022, respectively.

Based on EPD guidance, groundwater trends at wells with SSLs were further evaluated by Groundwater Stats Consulting (GSC) using the Sen's Slope/Mann Kendall trend tests. The full report generated from the analyses is provided in Appendix D. No statistically significant trends were identified when the September 2022 data were analyzed. Trends will continue to be evaluated as data is collected in future monitoring events.

5.0 NATURE AND EXTENT

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

As described in Section 2.3.1, to assess horizontal delineation of arsenic, Georgia Power proactively collected surface water samples from along four transects in the tidal marsh adjacent to wells MCM-05, MCM-06, MCM-07, and MCM-14 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) and laboratory reporting limits of 0.015 to 0.050 mg/L (depending on sample date and location, with the higher detection limits due to high ionic strength surface water) in surface water samples collected to date (Table 6); therefore, no impacts to surface water have been detected and horizontal delineation is complete.

5.1 ALTERNATE SOURCE DEMONSTRATION

Pursuant to regulations in § 257.95(g)(3)(ii), Arcadis U.S., Inc. (Arcadis) prepared an ASD for the SSLs of lithium reported for wells MCM-06 (Arcadis, 2020a) and DPZ-02 (Arcadis, 2022). The ASDs present multiple lines of evidence that indicate that the lithium observed at former AP-1 is due to a natural source – i.e., the influx of brackish surface water. Lithium is a naturally occurring element in seawater and is present in the brackish water that is a mix of seawater and freshwater surrounding the site. GA EPD approved the ASD for lithium at monitoring well MCM-06 on April 22, 2021, and DPZ-02 on June 17, 2022. The approval was conditional on the ASD for MCM-06 being updated after 2-years with additional monitoring data and for DPZ-02 being continually supported with future monitoring data.

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

During the 2022 semiannual reporting period, a *Draft Remedy Selection Report* was prepared by Arcadis in lieu of the Semiannual Remedy Selection and Design Progress Reports previously included in the appendix of this semiannual groundwater monitoring and corrective action report. The Draft Remedy Selection Report was submitted under separate cover on February 28, 2023. 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.

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 E. The findings with the available data are consistent with the 2021 well survey (Arcadis, 2022).

7.0 CONCLUSIONS & FUTURE ACTIONS

This 2022 *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 2022 event at the former AP-1 identified the continued presence of a SSLs of arsenic and lithium in monitoring well MCM-06 and lithium in assessment well DPZ-02. The lithium SSL in MCM-06 has been addressed with an ASD conditionally approved on April 22, 2021. An ASD for the SSL of lithium above the GWPS identified at DPZ-02 was submitted and conditionally approved on June 17, 2022. The arsenic SSL in MCM-06 is vertically delineated below the GWPS by DPZ-02. Based on the surface water data collected to date, the arsenic SSL in MCM-06 does not appear in adjacent surface water. Surface water data will be collected semiannually and reported in semiannual and annual groundwater monitoring reports.

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, under separate cover. The next routine semiannual assessment monitoring event for former AP-1 is scheduled for March 2023. Progress made regarding the remedy selection will be documented in the next groundwater monitoring and corrective action report.

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TABLES

Table 1
 Summary of Groundwater Elevations
 Plant McManus
 Former AP-1
 Brunswick, Georgia

| Collection Date | | | | | September 21, 2022 | September 22, 2022 |
|------------------|--------------------------------------|---|--|------------------------------------|--|---|
| High Tide | | | | | 6:44 | |
| Low Tide | | | | | | 13:00 |
| Start Collection | | | | | 6:53 | 12:52 |
| Stop Collection | | | | | 8:30 | 14:10 |
| Well ID | Top of Casing Elevation (ft NAVD 88) | Top of Casing Elevation (April 16, 2020) [ft NAVD 88] | Difference Between Elevations (ft NAVD 88) | Well Bottom Elevation (ft NAVD 88) | High Tide GW Elevation (ft NAVD 88) ¹ | Low Tide GW Elevation (ft NAVD 88) ¹ |
| MCM-01 | 8.76 | 8.63 | -0.13 | -18.56 | 6.10 | 5.84 |
| MCM-02 | 10.58 | 11.25 | 0.67 | -16.77 | 8.50 | 8.42 |
| MCM-03 | 10.00 | 9.97 | -0.03 | -17.70 | 5.29 | 5.16 |
| MCM-04 | 12.47 | 12.39 | -0.08 | -16.10 | 5.08 | 4.49 |
| MCM-05 | 10.09 | 10.04 | -0.05 | -17.96 | 5.46 | 4.19 |
| MCM-06 | 10.17 | 10.15 | -0.02 | -17.03 | 4.06 | 2.57 |
| MCM-07 | 10.22 | 10.20 | -0.02 | -13.53 | 3.88 | 3.26 |
| MCM-08 | 9.41 | 9.42 | 0.01 | -18.88 | 3.50 | 3.43 |
| MCM-10 | 11.77 | 11.75 | -0.02 | -12.19 | 6.57 | 6.41 |
| MCM-11 | 10.37 | 10.23 | -0.14 | -13.63 | 6.13 | 5.91 |
| MCM-12 | 12.03 | 11.87 | -0.16 | -16.97 | 4.43 | 4.45 |
| MCM-13 | 12.67 | 12.56 | -0.11 | -14.79 | 3.91 | 3.72 |
| MCM-14 | 11.66 | 11.50 | -0.16 | -16.45 | 5.31 | 3.59 |
| MCM-15 | 12.87 | 12.84 | -0.03 | -13.73 | 5.61 | 5.39 |
| MCM-16 | 15.81 | 16.02 | 0.21 | -12.58 | 8.57 | 8.47 |
| MCM-17 | 11.67 | 11.49 | -0.18 | -15.77 | 3.69 | 3.13 |
| MCM-18 | 9.00 | 9.00 | 0.00 | -18.86 | 3.64 | 3.62 |
| MCM-19 | 8.71 | 8.71 | 0.00 | -19.61 | 3.27 | 2.12 |
| MCM-20 | 10.07 | 10.07 | 0.00 | -12.98 | 3.54 | 2.18 |
| DR-01 | 7.58 | NS | NS | -23.00 | 3.69 | 2.30 |
| DR-02 | 7.49 | NS | NS | -22.54 | 3.66 | 2.28 |
| PT-01 | 7.49 | NS | NS | -16.89 | 3.57 | 2.15 |
| PT-02 | 7.64 | NS | NS | -16.74 | 3.62 | 2.24 |
| PT-03 | 7.45 | NS | NS | -17.91 | 3.62 | 2.26 |
| PT-04D | 7.51 | NS | NS | -33.34 | 3.57 | 2.22 |
| MW-01R | 12.61 | NS | NS | -14.83 | 5.50 | 5.00 |
| MW-02 | 11.10 | NS | NS | -15.28 | 4.73 | 4.62 |
| MW-03 | 11.26 | NS | NS | -15.34 | 4.00 | 3.77 |
| MW-04 | 9.20 | NS | NS | -17.85 | 3.97 | 3.93 |
| MW-05 | 13.24 | NS | NS | -14.21 | 7.76 | 7.60 |
| MW-06R | 13.31 | NS | NS | -10.29 | 7.56 | 7.42 |
| MW-07 | 9.94 | NS | NS | -11.62 | 6.84 | 6.67 |
| MW-09 | 10.10 | NS | NS | -14.05 | 4.61 | 4.39 |
| MW-10 | 10.24 | NS | NS | -17.06 | 3.83 | 3.31 |
| MW-11 | 10.35 | NS | NS | -23.05 | 3.45 | 1.40 |
| MW-12 | 10.08 | NS | NS | -23.47 | 4.47 | 3.02 |
| PZ-9 | 9.41 | 9.41 | 0.00 | -14.64 | 3.95 | 3.91 |
| PZ-10 | 12.17 | 12.17 | 0.00 | -10.74 | 4.11 | 4.11 |
| PZ-11 | 9.37 | 9.37 | 0.00 | -9.71 | 4.17 | 4.01 |
| PZ-12 | 7.90 | 7.90 | 0.00 | -10.80 | 3.17 | 2.99 |
| DPZ-01 | 9.71 | 9.71 | 0.00 | -8.99 | 4.27 | 2.85 |
| DPZ-02 | 9.54 | 9.54 | 0.00 | -9.16 | 4.21 | 2.71 |
| DPZ-03 | 9.46 | 9.46 | 0.00 | -9.24 | 6.64 | 5.60 |
| DPZ-04 | 11.45 | 11.45 | 0.00 | -7.25 | 3.86 | 3.06 |
| DPZ-05 | 11.00 | 11.00 | 0.00 | -7.70 | 4.72 | 3.55 |
| DPZ-06 | 12.04 | 12.04 | 0.00 | -6.66 | 5.40 | 5.21 |
| RW-1 | 9.39 | NS | NS | -17.03 | 3.02 | 2.60 |
| RW-2 | 9.96 | NS | NS | -17.31 | 3.42 | 3.45 |
| RW-3 | 9.89 | NS | NS | -22.40 | 4.02 | 3.46 |
| RW-4 | 9.49 | NS | NS | -17.39 | 3.70 | 3.33 |
| RW-5 | 10.11 | NS | NS | -27.11 | 3.81 | 2.34 |
| RW-6 | 10.25 | NS | NS | -26.34 | 3.93 | 3.43 |
| RW-7 | 10.19 | NS | NS | -27.99 | 3.97 | 2.52 |
| RW-8 | 10.22 | NS | NS | -21.40 | 3.99 | 3.41 |
| RW-9 | 10.26 | NS | NS | -27.45 | 4.40 | 2.91 |
| RW-10 | 10.56 | NS | NS | -27.24 | 4.38 | 2.97 |
| Staff Gauge | Direct Read | NM | NM | NM | NM | NM |
| AP Monitor | Transducer | NM | NM | NM | 5.24 | 5.09 |
| Oil Dock Monitor | Transducer | NM | NM | NM | 2.92 | -2.71 |

Notes:

¹Values calculated using April 16, 2020 survey data;

NS = Not Surveyed

NM = Not Measured

NA = Not Applicable

Table 2
Monitoring Well Network Summary
Plant McManus
Former AP-1
Brunswick, GA

| Well ID | Well Function | Northing ¹ (ft) | Easting ¹ (ft) | Top of Casing Elevation ² (ft NAVD 88) | Ground Surface Elevation ^{2,3} (ft NAVD 88) | Total Depth ⁴ (ft BTOC) | Top of Screen Elevation ² (ft NAVD 88) | Bottom of Screen Elevation ² (ft NAVD 88) |
|---------|----------------------------|-------------------------------|------------------------------|---|--|---------------------------------------|---|--|
| MCM-01 | Upgradient Detection | 443727.31 | 852732.08 | 8.63 | 5.70 | 27.32 | -7.93 | -17.93 |
| MCM-02 | Upgradient Detection | 444496.53 | 852663.64 | 11.25 | 8.25 | 27.35 | -5.22 | -15.22 |
| MCM-04 | Downgradient Detection | 444804.73 | 851695.27 | 12.39 | 9.50 | 28.57 | -5.18 | -15.18 |
| MCM-05 | Downgradient Detection | 444716.63 | 851309.91 | 10.04 | 7.80 | 28.05 | -7.25 | -17.25 |
| MCM-06 | Downgradient Detection | 444407.22 | 850782.11 | 10.15 | 7.87 | 27.20 | -6.27 | -16.27 |
| MCM-07 | Downgradient Detection | 444059.38 | 850195.96 | 10.20 | 7.52 | 23.75 | -2.76 | -12.76 |
| MCM-11 | Upgradient Detection | 442429.80 | 851072.91 | 10.23 | 7.52 | 24.00 | -3.34 | -13.34 |
| MCM-12 | Downgradient Detection | 442821.17 | 851312.45 | 11.87 | 8.99 | 29.00 | -6.12 | -16.12 |
| MCM-14 | Downgradient Detection | 443358.82 | 852317.59 | 11.50 | 8.66 | 28.11 | -6.23 | -16.23 |
| MCM-15 | Upgradient Detection | 444825.53 | 851949.02 | 12.84 | 10.18 | 26.60 | -4.53 | -14.53 |
| MCM-16 | Upgradient Detection | 444551.32 | 852716.60 | 16.02 | 13.04 | 28.39 | -1.72 | -11.72 |
| MCM-17 | Downgradient Detection | 443074.41 | 851899.68 | 11.49 | 9.09 | 27.44 | -4.81 | -14.81 |
| MCM-18 | Upgradient Detection | 442067.07 | 851698.41 | 9.00 | 6.01 | 27.86 | -8.76 | -18.76 |
| MCM-19 | Upgradient Detection | 441157.82 | 852338.86 | 8.71 | 5.77 | 28.32 | -9.53 | -19.53 |
| MCM-20 | Upgradient Detection | 440944.40 | 852185.15 | 10.07 | 7.07 | 23.05 | -2.98 | -12.98 |
| DPZ-02 | Downgradient Assessment | 444391.02 | 850757.94 | 9.54 | 7.34 | 43.46 | -28.84 | -33.84 |

Notes:

1. Georgia State Plane - NAD 83 East Zone.
2. NAVD 88 - North American Vertical Datum of 1988
3. Ground Surface measured at the mag nail in the concrete pad
4. ft BTOC - feet below top of casing

Table 3
Piezometer Network Summary
Plant McManus
Former AP-1
Brunswick, GA

| Well ID | Well Function | Northing ¹ (ft) | Easting ¹ (ft) | Top of Casing Elevation ² (ft NAVD 88) | Ground Surface Elevation ^{2,3} (ft NAVD 88) | Total Depth ⁴ (ft BTOC) | Top of Screen Elevation ² (ft NAVD 88) | Bottom of Screen Elevation ² (ft NAVD 88) |
|---------|---------------|-------------------------------|------------------------------|---|--|---------------------------------------|---|--|
| MW-01R | Piezometer | 443632.5586 | 852715.1308 | 12.61 | NA | 27.44 | 0.17 | -14.83 |
| MW-02 | Piezometer | 443354.3859 | 852304.1959 | 11.10 | NA | 26.80 | -0.70 | -15.70 |
| MW-03 | Piezometer | 443081.3356 | 851904.8549 | 11.26 | NA | 27.00 | -0.60 | -15.60 |
| MW-04 | Piezometer | 442854.6307 | 851408.1446 | 9.20 | NA | 27.40 | -3.00 | -18.00 |
| MW-05 | Piezometer | 442578.1982 | 850752.3477 | 13.24 | NA | 27.60 | 0.90 | -14.10 |
| MW-06R | Piezometer | 442378.5335 | 850499.0375 | 13.25 | NA | 20.00 | 3.25 | -6.75 |
| MW-07 | Piezometer | 442792.9894 | 850224.3520 | 9.94 | NA | 21.50 | 3.40 | -11.60 |
| MW-08 | Piezometer | 443310.0596 | 849977.9965 | 8.95 | NA | 27.70 | -3.70 | -18.70 |
| MW-09 | Piezometer | 443736.7716 | 849920.8976 | 10.10 | NA | 24.20 | 0.80 | -14.20 |
| MW-10 | Piezometer | 444045.1224 | 850181.4059 | 10.24 | NA | 27.10 | -2.80 | -17.80 |
| MW-11 | Piezometer | 444359.5263 | 850709.3205 | 10.42 | NA | 32.20 | -8.20 | -23.20 |
| MW-12 | Piezometer | 444667.3620 | 851186.9003 | 10.08 | NA | 32.30 | -8.60 | -23.60 |
| MCM-03 | Piezometer | 444414.8800 | 851984.6700 | 9.97 | 7.10 | 27.70 | -7.73 | -17.73 |
| MCM-08 | Piezometer | 443758.8000 | 849716.9600 | 9.42 | 6.55 | 28.29 | -8.39 | -18.39 |
| MCM-10 | Piezometer | 442791.8800 | 850453.0500 | 11.75 | 8.61 | 23.96 | -1.25 | -11.25 |
| MCM-13 | Piezometer | 443030.2300 | 851826.1900 | 12.56 | 9.79 | 27.46 | -4.90 | -14.90 |
| PZ-09 | Piezometer | 444082.13 | 849471.64 | 9.41 | 6.57 | 24.05 | -4.56 | -14.56 |
| PZ-10 | Piezometer | 444949.09 | 851673.98 | 12.17 | 9.74 | 22.91 | -0.66 | -10.66 |
| PZ-11 | Piezometer | 443222.86 | 849280.51 | 9.37 | 6.57 | 19.08 | -4.63 | -9.63 |
| PZ-12 | Piezometer | 443593.34 | 849396.87 | 7.90 | 5.02 | 18.70 | -5.72 | -10.72 |
| DPZ-01 | Piezometer | 444695.71 | 851277.40 | 9.71 | 7.36 | 40.78 | -25.99 | -30.99 |
| DPZ-03 | Piezometer | 444073.16 | 850218.83 | 9.46 | 7.04 | 47.57 | -33.03 | -38.03 |
| DPZ-04 | Piezometer | 443062.60 | 851881.94 | 11.45 | 8.96 | 51.23 | -34.70 | -39.70 |
| DPZ-05 | Piezometer | 443376.32 | 852342.11 | 11.00 | 8.60 | 51.20 | -35.12 | -40.12 |
| DPZ-06 | Piezometer | 444614.79 | 851846.27 | 12.04 | 9.59 | 40.50 | -23.38 | -28.38 |
| RW-1 | Piezometer | 444094.0012 | 850251.1636 | 9.39 | NA | 26.42 | -2.61 | -12.61 |
| RW-2 | Piezometer | 444161.8377 | 850367.2034 | 9.96 | NA | 27.27 | -2.83 | -12.83 |
| RW-3 | Piezometer | 444228.4307 | 850479.7659 | 9.89 | NA | 32.29 | -3.07 | -13.07 |
| RW-4 | Piezometer | 444299.3305 | 850599.2604 | 9.49 | NA | 26.88 | -2.97 | -12.97 |
| RW-5 | Piezometer | 444369.6765 | 850714.2378 | 10.11 | NA | 37.22 | -2.92 | -22.92 |
| RW-6 | Piezometer | 444436.3732 | 850831.7225 | 10.25 | NA | 36.58 | -2.67 | -22.67 |
| RW-7 | Piezometer | 444504.5857 | 850949.3512 | 10.19 | NA | 38.17 | -7.69 | -22.69 |
| RW-8 | Piezometer | 444572.9068 | 851064.4671 | 10.22 | NA | 31.62 | -2.80 | -17.80 |
| RW-9 | Piezometer | 444641.6045 | 851181.2956 | 10.26 | NA | 37.71 | -7.66 | -22.66 |
| RW-10 | Piezometer | 444706.8701 | 851295.5011 | 10.56 | NA | 37.80 | -7.54 | -22.54 |
| DR-01 | Piezometer | 444407.62 | 850777.93 | 7.58 | 7.86 | 30.58 | -8.00 | -23.00 |
| DR-02 | Piezometer | 444411.68 | 850784.46 | 7.49 | 7.90 | 30.03 | -7.54 | -22.54 |
| PT-01 | Piezometer | 444408.70 | 850768.53 | 7.49 | 7.82 | 24.38 | -6.89 | -16.89 |
| PT-02 | Piezometer | 444414.19 | 850777.91 | 7.64 | 7.91 | 24.38 | -6.74 | -16.74 |
| PT-03 | Piezometer | 444418.92 | 850785.95 | 7.45 | 7.93 | 25.36 | -7.91 | -17.91 |
| PT-04D | Piezometer | 444400.23 | 850753.07 | 7.51 | 7.80 | 40.85 | -23.34 | -33.34 |

Notes:

1. Georgia State Plane - NAD 83 East Zone.
 2. NAVD 88 - North American Vertical Datum of 1988
 3. Ground Surface measured at the mag nail in the concrete pad
 4. ft BTOC - feet below top of casing
 5. PZ- 1 through PZ-8 were abandoned in 2019
 6. MCM-09 was abandoned in 2020
- NA - Not Available

Table 4
Groundwater Sampling Event Summary
Plant McManus
Former AP-1
Brunswick, GA

| Well ID | Hydraulic Location | September 2022 | Status of Monitoring Well |
|---------------------------|--------------------|-------------------------|---------------------------|
| Purpose of Sampling Event | | Semi-Annual GW Sampling | |
| MCM-01 | Upgradient | X | Assessment |
| MCM-02 | Upgradient | X | Assessment |
| MCM-04 | Downgradient | X | Assessment |
| MCM-05 | Downgradient | X | Assessment |
| MCM-06 | Downgradient | X | Assessment |
| MCM-07 | Downgradient | X | Assessment |
| MCM-11 | Upgradient | X | Assessment |
| MCM-12 | Downgradient | X | Assessment |
| MCM-14 | Downgradient | X | Assessment |
| MCM-15 | Upgradient | X | Assessment |
| MCM-16 | Upgradient | X | Assessment |
| MCM-17 | Downgradient | X | Assessment |
| MCM-18 | Upgradient | X | Assessment |
| MCM-19 | Upgradient | X | Assessment |
| MCM-20 | Upgradient | X | Assessment |
| DPZ-02 | Downgradient | X | Assessment |

Notes:
X - Sampled
- - Not Sampled

Table 5a
Appendix III and IV Groundwater Data Summary
Plant McManus
Former Ash Pond (AP-1)
Brunswick, GA

| WELL ID Sample Date | Appendix III | | | | | | | Appendix IV | | | | | | | | | | | | | |
|------------------------|--------------|---------|----------|----------|---------|-------|------|-------------|----------|--------|-----------|-----------|----------|-----------|-----------|----------|-----------|------------|--------|----------|----------|
| | Boron | Calcium | Chloride | Fluoride | Sulfate | TDS | pH | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Lead | Lithium | Mercury | Molybdenum | Radium | Selenium | Thallium |
| DPZ-02 | | | | | | | | | | | | | | | | | | | | | |
| 6/28/2022 | | 225 | 9640 | | 553 | 15400 | | | 0.025 | | | | | | | | | | | | |
| 9/20/2022 | 1.7 | 240 | 7400 | <4.0 | 820 | 13000 | 7.07 | <0.0015 | 0.021 | 0.069 | <0.00020 | <0.000078 | <0.0010 | <0.00022 | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 8.20 | <0.0012 | <0.00026 |
| MCM-01 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.35 J | 9.2 | 17 | <0.040 | 39 | 100 | 4.95 | <0.0015 | 0.0057 J | 0.11 | <0.00020 | <0.000078 | 0.0014 J | <0.00022 | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 0.863 | <0.0012 | <0.00026 |
| MCM-02 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.23 J | 4.3 | 23 | <0.040 | 29 | 90 | 5.14 | <0.0015 | <0.0012 | 0.076 | <0.00020 | <0.000078 | <0.0010 | 0.00032 J | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 0.789 | <0.0012 | <0.00026 |
| MCM-04 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.19 J | 7.8 | 47 | <0.040 | 52 | 180 | 5.34 | <0.0015 | 0.0017 J | 0.029 | <0.00020 | <0.000078 | 0.0015 J | 0.0025 | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 1.67 | <0.0012 | <0.00026 |
| MCM-05 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.61 | 28 | 1100 | 0.48 | 100 | 2100 | 6.93 | <0.0015 | 0.0077 | 0.014 | <0.00020 | <0.000078 | 0.0016 J | 0.00026 J | <0.00081 | 0.018 J | <0.000080 | 0.00095 J | 1.42 | <0.0012 | <0.00026 |
| MCM-06 | | | | | | | | | | | | | | | | | | | | | |
| 6/28/2022 | | 73.5 | 3520 | | 213 | 6140 | | | 0.17 | | | | | | | | | | | | |
| 9/20/2022 | 1.1 | 47 | 2800 | 1.1 J | 320 | 3900 | 7.29 | <0.0015 | 0.18 | 0.027 | <0.00020 | <0.000078 | <0.0010 | <0.00022 | <0.00081 | 0.043 | <0.000080 | 0.0013 J | 1.51 | <0.0012 | <0.00026 |
| MCM-07 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 1.3 | 190 | 6400 | 0.18 | 660 | 9400 | 6.27 | <0.0015 | 0.010 | 0.12 | <0.00020 | 0.00020 J | 0.0027 J | 0.00031 J | <0.00081 | 0.020 J | <0.000080 | 0.00095 J | 8.23 | <0.0012 | <0.00026 |
| MCM-11 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.17 J | 7.6 | 32 | 0.11 | 23 | 110 | 4.97 | <0.0015 | 0.013 | 0.040 | <0.00020 | <0.000078 | 0.0015 J | <0.00022 | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 0.797 | <0.0012 | <0.00026 |
| MCM-12 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 1.3 | 4.7 | 400 | 1.3 | <2.0 | 1300 | 6.30 | <0.0015 | <0.0012 | 0.068 | 0.0011 J | <0.000078 | 0.0077 J | 0.00042 J | 0.00083 J | 0.0075 J | <0.000080 | <0.00086 | 1.54 | <0.0012 | <0.00026 |
| MCM-14 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 1.0 | 74 | 3300 | 0.12 | 270 | 7400 | 6.61 | <0.0015 | <0.0012 | 0.059 | <0.00020 | <0.000078 | 0.0015 J | <0.00022 | <0.00081 | 0.028 | <0.000080 | <0.00086 | 4.52 | <0.0012 | <0.00026 |
| MCM-15 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.14 J | 0.83 | 3.3 | <0.040 | 6.3 | 38 | 5.23 | <0.0015 | 0.0044 J | 0.022 | <0.00020 | <0.000078 | 0.0020 J | <0.00022 | 0.00092 J | <0.0049 | <0.000080 | 0.00094 J | 1.23 | <0.0012 | <0.00026 |
| MCM-16 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 0.12 J | 4.6 | 17 | <0.040 | 24 | 78 | 4.91 | <0.0015 | <0.0012 | 0.11 | <0.00020 | <0.000078 | 0.0015 J | 0.00024 J | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 1.02 | <0.0012 | <0.00026 |
| MCM-17 | | | | | | | | | | | | | | | | | | | | | |
| 9/21/2022 | 1.8 | 110 | 3300 | 0.78 | 330 | 6200 | 6.72 | <0.0015 | <0.0012 | 0.089 | 0.00029 J | <0.000078 | 0.0063 J | 0.00025 J | <0.00081 | 0.023 J | <0.000080 | <0.00086 | 5.26 | <0.0012 | <0.00026 |
| MCM-18 | | | | | | | | | | | | | | | | | | | | | |
| 9/20/2022 | 0.18 J | 20 | 1200 | 0.61 J | 160 | 2000 | 4.47 | <0.0015 | 0.0026 J | 0.11 | 0.0030 | 0.00078 J | 0.0021 J | <0.00022 | <0.00081 | <0.0049 | <0.000080 | <0.00086 | 9.35 | <0.0012 | <0.00026 |

Table 5a
Groundwater Data Summary
Plant McManus
Former Ash Pond (AP-1)
Brunswick, GA

| WELL ID | Appendix III | | | | | | | Appendix IV | | | | | | | | | | | | | | |
|---------------|--------------|-------|---------|----------|----------|---------|------|-------------|----------|---------|--------|-----------|---------|----------|----------|---------|-----------|----------|------------|----------|----------|----------|
| | Sample Date | Boron | Calcium | Chloride | Fluoride | Sulfate | TDS | pH | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Lead | Lithium | Mercury | Molybdenum | Radium | Selenium | Thallium |
| MCM-19 | | | | | | | | | | | | | | | | | | | | | | |
| 9/20/2022 | 0.77 | 150 | 6200 | <4.0 | 740 | 10000 | 5.14 | <0.0015 | 0.021 | 0.12 | 0.017 | 0.0083 | <0.0010 | <0.00022 | <0.00081 | 0.014 J | <0.000080 | <0.00086 | 18.2 | 0.0046 J | <0.00026 | |
| MCM-20 | | | | | | | | | | | | | | | | | | | | | | |
| 9/20/2022 | 0.9 | 100 | 5700 | 4.3 J | 750 | 8600 | 3.63 | <0.0015 | 0.026 | 0.12 | 0.020 | 0.0043 | <0.0010 | 0.030 | <0.00081 | 0.029 | <0.000080 | <0.00086 | 30.1 | 0.0027 J | <0.00026 | |

- Notes:
1. Results for substances (except radium and pH) are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L) and pH is reported in standard units (SU).
 2. Radium reported in Combined Radium 226 + 228
 3. < indicates the substance was not detected above the analytical Method Detection Limit (MDL)
 4. J - Estimated value. Substance was detected above the MDL and below the laboratory's Reporting Limit (RL)
 5. U - Estimated value for radium. Substance was detected below the Minimum Detection Concentration (MDC) or a product of inaccurate or imprecise Method Detection Limits.
 6. TDS - Total Dissolved Solids
 7. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring
 8. Blank values indicate the parameter was not analyzed
 9. pH - Parameter measured in the field

Table 5b
 Geochemical Groundwater Data Summary
 Plant McManus
 Former Ash Pond (AP-1)
 Brunswick, GA

| WELL ID | Total Alkalinity (CaCO3) | Bicarbonate (CaCO3) | Carbonate (CaCO3) | Iron | Iron, Dissolved | Magnesium | Magnesium, Dissolved | Potassium | Potassium, Dissolved | Sodium | Sodium, Dissolved | Sulfide |
|---------------|--------------------------|---------------------|-------------------|---------|-----------------|-----------|----------------------|-----------|----------------------|--------|-------------------|---------|
| DPZ-02 | | | | | | | | | | | | |
| 6/28/2022 | 394 | | | 0.022 J | <0.022 | 471 | 503 | 184 | 182 | 3610 | 4370 | 24.3 |
| 9/20/2022 | 410 | 410 | <5.0 | <0.026 | <0.026 | 450 | | 140 | | 4100 | | 23.0 |
| MCM-01 | | | | | | | | | | | | |
| 9/21/2022 | 5.0 | 5.0 | <5.0 | 2.7 | | 1.9 | | 2.2 | | 17 | | |
| MCM-02 | | | | | | | | | | | | |
| 9/21/2022 | 5.9 | 5.9 | <5.0 | 1.2 | | 2.1 | | 0.81 J | | 19 | | |
| MCM-04 | | | | | | | | | | | | |
| 9/21/2022 | 12 | 12 | <5.0 | 2.4 | | 2.4 | | 7.7 | | 39 | | |
| MCM-05 | | | | | | | | | | | | |
| 9/21/2022 | 210 | 210 | <5.0 | <0.026 | | 60 | | 33 | | 620 | | |
| MCM-06 | | | | | | | | | | | | |
| 6/28/2022 | 286 | | | 0.11 | <0.022 | 154 | 151 | 94 | 83.0 | 1720 | 2160 | 23.3 |
| 9/20/2022 | 270 | 270 | <5.0 | 0.056 J | <0.026 | 91 | | 56 | | 1400 | | 20.0 |
| MCM-07 | | | | | | | | | | | | |
| 9/21/2022 | 300 | 300 | <5.0 | 0.033 J | | 410 | | 100 | | 3100 | | |
| MCM-11 | | | | | | | | | | | | |
| 9/21/2022 | 26 | 26 | <5.0 | 7.0 | | 1.8 | | 0.69 J | | 23 | | |
| MCM-12 | | | | | | | | | | | | |
| 9/21/2022 | 450 | 450 | <5.0 | 0.17 | | 8.7 | | 19 | | 400 | | |
| MCM-14 | | | | | | | | | | | | |
| 9/21/2022 | 210 | 210 | <5.0 | <0.026 | | 150 | | 61 | | 1600 | | |

Table 5b
Groundwater Geochemical Data Summary
Plant McManus
Former Ash Pond (AP-1)
Brunswick, GA

| WELL ID | Total Alkalinity (CaCO3) | Bicarbonate (CaCO3) | Carbonate (CaCO3) | Iron | Iron, Dissolved | Magnesium | Magnesium, Dissolved | Potassium | Potassium, Dissolved | Sodium | Sodium, Dissolved | Sulfide |
|---------------|--------------------------|---------------------|-------------------|---------|-----------------|-----------|----------------------|-----------|----------------------|--------|-------------------|---------|
| MCM-15 | | | | | | | | | | | | |
| 9/21/2022 | 6.7 | 6.7 | <5.0 | 0.46 | | 0.33 J | | 7.3 | | 2.6 | | |
| MCM-16 | | | | | | | | | | | | |
| 9/21/2022 | 3.4 J | <5.0 | <5.0 | 1.7 | | 2.3 | | 1.0 | | 11 | | |
| MCM-17 | | | | | | | | | | | | |
| 9/21/2022 | 570 | 570 | <5.0 | 0.034 J | | 170 | | 86 | | 1800 | | |
| MCM-18 | | | | | | | | | | | | |
| 9/20/2022 | <2.2 | <5.0 | <5.0 | 32 | | 62 | | 9.0 | | 690 | | |
| MCM-19 | | | | | | | | | | | | |
| 9/20/2022 | 29 | 29 | <5.0 | 120 | | 430 | | 73 | | 3200 | | |
| MCM-20 | | | | | | | | | | | | |
| 9/20/2022 | <2.2 | <5.0 | <5.0 | 130 | 120 | 330 | | 74 | | 2900 | | 2.10 |

- Notes:
1. Results for substances are reported in milligrams per liter (mg/L).
 2. < indicates the substance was not detected above the analytical Method Detection Limit (MDL)
 3. J - Estimated value. Substance was detected above the MDL and below the laboratory's Reporting Limit (RL)
 4. Blank values indicate the parameter was not analyzed

Table 6
Plant McManus
Surface Water Analytical Results
Historical Data Summary

| Sample ID | Date | pH | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Arsenic (mg/L) | Boron (mg/L) | Lithium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Total Alk (mg/L) | TDS (mg/L) | Chloride (mg/L) | Fluoride (mg/L) | Sulfate (mg/L) |
|-----------|------------|------|-------------------|---------------------|---------------------|------------------|-------------------|-----------------|-------------------|-----------------------|---------------------|---------------------|---------------|--------------------|--------------------|-------------------|
| BG-1LT | 6/8/2022 | 6.58 | 222 | 690 | 252 | 5370 | <0.0043 | 2.9 | 0.097 J | 99.2 | <5.0 | 99.2 | 23000 | 7920 | <5.0 | 1040 |
| BG-1LT | 9/28/2022 | 5.95 | 260 | 780 | 200 | 6000 | <0.0060 | 2.8 | 0.10 | 110 | <5.0 | 110 | 20000 | 13000 | <8.0 | 1600 |
| BG-2HT | 6/7/2022 | 7.51 | 284 | 890 | 330 | 6990 | <0.0043 | 3.6 | 0.11 J | 118 | <5.0 | 118 | 26000 | 10200 | <5.0 | 1370 |
| BG-2HT | 9/22/2022 | 7.12 | 280 | 840 | 250 | 7200 | 0.0026 | 2.9 J | 0.11 | 110 | <5.0 | 110 | 24000 | 14000 | <1.6 | 1900 |
| T1-1HT | 12/20/2022 | 7.56 | 360 | 1000 | 320 | 8300 | 0.0020 | 3.6 | 0.14 | 130 | <5.0 | 130 | 24000 | 16000 | <10 | 2000 |
| T1-2HT | 12/20/2022 | 7.55 | 370 | 1100 | 340 | 8800 | 0.0019 | 3.8 | 0.15 | 130 | <5.0 | 130 | 27000 | 16000 | <10 | 2100 |
| T1-2HTS | 12/20/2022 | 7.57 | 360 | 1000 | 330 | 8500 | 0.0021 | 3.7 | 0.14 | 130 | <5.0 | 130 | 24000 | 18000 | <10 | 2300 |
| T1-3HT | 12/20/2022 | 7.53 | 370 | 1100 | 340 | 8800 | 0.0025 | 4.0 | 0.14 | 130 | <5.0 | 130 | 25000 | 29000 | <10 | 3900 |
| T1-3HTS | 12/20/2022 | 7.54 | 380 | 1100 | 330 | 9300 | 0.0018 | 4.1 | 0.14 | 130 | <5.0 | 130 | 23000 | 20000 | <10 | 2600 |
| T1-4HT | 6/7/2022 | 7.43 | 242 | 755 | 274 | 5740 | 0.0049 J | 3.4 | 0.11 J | 98.8 | <5.0 | 98.8 | 22700 | 3260 | <5.0 | 380 |
| T1-4HT | 9/22/2022 | 6.98 | 240 | 720 | 240 | 5700 | 0.0027 | 2.0 J | 0.092 | 100 | <5.0 | 100 | 18000 | 12000 | <10 | 1400 |
| T1-4HTS | 6/7/2022 | 7.50 | 248 | 775 | 282 | 5990 | <0.0043 | 3.6 | 0.11 J | 99.8 | <5.0 | 99.8 | 24500 | 4270 | 1.1 J | 1230 |
| T1-4HTS | 9/22/2022 | 7.03 | 240 | 720 | 250 | 5700 | 0.0023 | 2.1 J | 0.092 | 100 | <5.0 | 100 | 17000 | 12000 | <1.6 | 1500 |
| T1-4LT | 9/28/2022 | 6.69 | 260 | 770 | 190 | 6100 | <0.0060 | 2.5 | 0.10 | 110 | <5.0 | 110 | 20000 | 13000 | <8.0 | 1500 |
| T2-1HT | 6/7/2022 | 7.55 | 214 | 663 | 242 | 5180 | <0.0043 | 3.4 | 0.098 J | 87.5 | <5.0 | 87.5 | 21200 | 3560 | 1.0 J | 1050 |
| T2-1HT | 9/22/2022 | 7.28 | 230 | 700 | 240 | 5500 | 0.0027 | 2.1 J | 0.090 | 100 | <5.0 | 100 | 17000 | 15000 | <1.6 | 1500 |
| T2-2HT | 6/7/2022 | 7.40 | 244 | 762 | 279 | 5940 | <0.0043 | 3.8 | 0.11 J | 98.5 | <5.0 | 98.5 | 20600 | 4550 | 1.0 J | 1210 |
| T2-2HT | 9/22/2022 | 6.99 | 250 | 750 | 250 | 5900 | 0.0025 | 2.0 J | 0.096 | 100 | <5.0 | 100 | 16000 | 15000 | <1.6 | 1500 |
| T2-2HTS | 6/7/2022 | 7.49 | 206 | 634 | 232 | 4990 | <0.0043 | 3.1 | 0.098 J | 83.3 | <5.0 | 83.3 | 18400 | 3430 | 1.0 J | 1010 |
| T2-2HTS | 9/22/2022 | 7.06 | 230 | 690 | 230 | 5400 | 0.0028 | 1.9 J | 0.088 | 100 | <5.0 | 100 | 19000 | 12000 | <1.6 | 1500 |
| T2-3HT | 6/7/2022 | 7.43 | 253 | 795 | 290 | 6130 | <0.0043 | 3.8 | 0.12 J | 98.3 | <5.0 | 98.3 | 24100 | 4090 | 1.1 J | 1250 |
| T2-3HT | 9/22/2022 | 6.97 | 250 | 760 | 250 | 6000 | 0.0030 | 2.2 J | 0.097 | 100 | <5.0 | 100 | 20000 | 13000 | <1.6 | 1600 |
| T2-3HTS | 6/7/2022 | 7.58 | 230 | 717 | 263 | 5530 | <0.0043 | 3.5 | 0.11 J | 95.7 | <5.0 | 95.7 | 23400 | 3740 | 1.0 J | 1210 |

| Sample ID | Date | pH | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Arsenic (mg/L) | Boron (mg/L) | Lithium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Total Alk (mg/L) | TDS (mg/L) | Chloride (mg/L) | Fluoride (mg/L) | Sulfate (mg/L) |
|-----------|------------|------|-------------------|---------------------|---------------------|------------------|-------------------|-----------------|-------------------|-----------------------|---------------------|---------------------|---------------|--------------------|--------------------|-------------------|
| T2-3HTS | 9/22/2022 | 7.03 | 240 | 710 | 240 | 5600 | 0.0024 | 1.9 J | 0.087 | 100 | <5.0 | 100 | 17000 | 12000 | <1.6 | 1400 |
| T2-4HT | 6/7/2022 | 7.44 | 229 | 718 | 262 | 5460 | <0.0043 | 3.3 | 0.10 J | 89.8 | <5.0 | 89.8 | 21600 | 3810 | 1.0 J | 1040 |
| T2-4HT | 9/22/2022 | 7.01 | 240 | 720 | 240 | 5700 | 0.0027 | 2.1 J | 0.090 | 100 | <5.0 | 100 | 17000 | 12000 | <1.6 | 1600 |
| T2-4HTS | 6/7/2022 | 7.56 | 208 | 647 | 235 | 4990 | <0.0043 | 3.0 | 0.096 J | 86.6 | <5.0 | 86.6 | 19900 | 3700 | 1.0 J | 1040 |
| T2-4HTS | 9/22/2022 | 7.04 | 240 | 730 | 250 | 5700 | 0.0025 | 1.7 J | 0.091 | 100 | <5.0 | 100 | 22000 | 11000 | <1.6 | 1500 |
| T2-4LT | 9/28/2022 | 7.06 | 260 | 760 | 190 | 5900 | <0.0060 | 2.5 | 0.10 | 110 | <5.0 | 110 | 19000 | 14000 | <8.0 | 1700 |
| T3-1HT | 12/20/2022 | 6.58 | 360 | 1100 | 320 | 8800 | 0.0020 | 3.8 | 0.14 | 130 | <5.0 | 130 | 25000 | 20000 | <10 | 2500 |
| T3-2HT | 12/20/2022 | 7.31 | 370 | 1100 | 330 | 8400 | 0.0018 | 3.9 | 0.12 | 130 | <5.0 | 130 | 26000 | 20000 | <10 | 2600 |
| T3-2HTS | 12/20/2022 | 7.14 | 360 | 1100 | 330 | 10000 | 0.0019 | 3.8 | 0.13 | 130 | <5.0 | 130 | 26000 | 16000 | <10 | 2000 |
| T3-3HT | 12/20/2022 | 7.46 | 360 | 1100 | 330 | 24000 | 0.0020 | 4.0 | 0.14 | 130 | <5.0 | 130 | 24000 | 23000 | <10 | 3100 |
| T3-3HTS | 12/20/2022 | 7.39 | 360 | 1100 | 330 | 9100 | 0.0023 | 3.8 | 0.15 | 130 | <5.0 | 130 | 24000 | 16000 | <10 | 2100 |
| T3-4HT | 6/7/2022 | 7.37 | 247 | 775 | 283 | 5870 | <0.0043 | 3.3 | 0.11 J | 101 | <5.0 | 101 | 22800 | 3930 | 1.1 J | 1240 |
| T3-4HT | 9/22/2022 | 6.98 | 240 | 750 | 250 | 5800 | 0.0027 | 2.2 J | 0.091 | 100 | <5.0 | 100 | 22000 | 13000 | <1.6 | 1600 |
| T3-4HTS | 6/7/2022 | 7.51 | 171 | 521 | 187 | 4080 | <0.0043 | 2.4 J | 0.079 J | 73.1 | <5.0 | 73.1 | 16900 | 2660 | <1.0 | 861 |
| T3-4HTS | 9/22/2022 | 7.09 | 210 | 620 | 210 | 4900 | 0.0021 | 2.1 | 0.079 | 95 | <5.0 | 95 | 19000 | 11000 | <1.6 | 1400 |
| T3-4LT | 9/28/2022 | 7.16 | 260 | 780 | 200 | 6100 | <0.0060 | 2.7 | 0.10 | 110 | <5.0 | 110 | 17000 | 14000 | <8.0 | 1600 |
| T4-1HB | 6/7/2022 | 7.34 | 245 | 770 | 280 | 5830 | <0.0043 | 3.5 | 0.11 J | 96.6 | <5.0 | 96.6 | 22900 | 3930 | 1.1 J | 1250 |
| T4-1HB | 9/22/2022 | 6.85 | 260 | 770 | 250 | 6800 | 0.0030 | 2.9 J | 0.099 | 110 | <5.0 | 110 | 20000 | 13000 | <1.6 | 1600 |
| T4-1HS | 6/7/2022 | 7.03 | 241 | 760 | 279 | 5790 | <0.0043 | 3.5 | 0.11 J | 98.9 | <5.0 | 98.9 | 18900 | 4040 | 1.1 J | 1240 |
| T4-1HS | 9/22/2022 | 6.59 | 250 | 760 | 250 | 6700 | 0.0030 | 2.9 J | 0.099 | 110 | <5.0 | 110 | 21000 | 13000 | <1.6 | 1700 |
| T4-2HB | 6/7/2022 | 7.38 | 251 | 787 | 287 | 6000 | <0.0043 | 3.7 | 0.11 J | 99.8 | <5.0 | 99.8 | 23100 | 4140 | 1.1 J | 1300 |
| T4-2HB | 9/22/2022 | 6.98 | 260 | 770 | 240 | 6700 | 0.0030 | 2.9 J | 0.10 | 110 | <5.0 | 110 | 24000 | 13000 | <1.6 | 1700 |
| T4-2HS | 6/7/2022 | 7.49 | 236 | 741 | 272 | 5670 | <0.0043 | 3.4 | 0.11 J | 99.6 | <5.0 | 99.6 | 21400 | 3860 | 1.1 J | 1210 |
| T4-2HS | 9/22/2022 | 6.96 | 260 | 770 | 240 | 6800 | 0.0023 | 2.9 J | 0.10 | 110 | <5.0 | 110 | 11000 | 13000 | <1.6 | 1700 |
| T4-3HB | 6/7/2022 | 7.33 | 249 | 787 | 285 | 6020 | <0.0043 | 3.5 | 0.11 J | 105 | <5.0 | 105 | 24700 | 4080 | 1.1 J | 1360 |
| T4-3HB | 9/22/2022 | 6.97 | 260 | 790 | 250 | 6800 | 0.0027 | 3.4 J | 0.10 | 110 | <5.0 | 110 | 21000 | 13000 | <1.6 | 1700 |
| T4-3HS | 6/7/2022 | 7.51 | 242 | 761 | 279 | 5880 | <0.0043 | 3.4 | 0.10 J | 97.5 | <5.0 | 97.5 | 20800 | 8700 | <5.0 | 1160 |

| Sample ID | Date | pH | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Arsenic (mg/L) | Boron (mg/L) | Lithium (mg/L) | Bicarbonate (mg/L) | Carbonate (mg/L) | Total Alk (mg/L) | TDS (mg/L) | Chloride (mg/L) | Fluoride (mg/L) | Sulfate (mg/L) |
|-----------|-----------|------|-------------------|---------------------|---------------------|------------------|-------------------|-----------------|-------------------|-----------------------|---------------------|---------------------|---------------|--------------------|--------------------|-------------------|
| T4-3HS | 9/22/2022 | 7.01 | 260 | 780 | 240 | 6700 | 0.0030 | 2.7 J | 0.10 | 110 | <5.0 | 110 | 23000 | 13000 | <1.6 | 1600 |
| T4-4HB | 6/7/2022 | 7.49 | 263 | 829 | 305 | 6340 | <0.0043 | 3.8 | 0.12 J | 106 | <5.0 | 106 | 25000 | 9750 | <5.0 | 1300 |
| T4-4HB | 9/22/2022 | 7.06 | 270 | 810 | 230 | 6700 | 0.0027 | 2.7 J | 0.11 | 110 | <5.0 | 110 | 23000 | 13000 | <1.6 | 1700 |
| T4-4HS | 6/7/2022 | 7.53 | 248 | 782 | 284 | 5980 | <0.0043 | 3.4 | 0.11 J | 101 | <5.0 | 101 | 22000 | 9120 | <5.0 | 1190 |
| T4-4HS | 9/22/2022 | 7.03 | 260 | 790 | 250 | 7000 | 0.0029 | 2.8 J | 0.10 | 110 | <5.0 | 110 | 21000 | 13000 | <1.6 | 1700 |
| T4-4L | 9/27/2022 | 7.14 | 260 | 760 | 190 | 5900 | <0.0060 | 2.6 | 0.10 | 130 | <5.0 | 130 | 21000 | 13000 | <8.0 | 1500 |

1. Results shown in milligrams per liter (mg/L).
2. "<" - not detected at the laboratory's Method Detection Limit (MDL) shown
3. "J" - Estimated concentration greater than the laboratory's MDL, but less than the laboratory's reporting limit.

Table 7
 2022 Horizontal Groundwater Flow Velocity Calculations
 Plant McManus
 Former Ash Pond 1 (AP-1)
 Brunswick, GA

| Tide Level | 9/22/2022 | | 9/21/2022 | |
|---|-----------|----------|-----------|----------|
| | Low | Low | High | High |
| Well 1 | MCM-16 | MCM-11 | MCM-16 | MCM-11 |
| Well 2 | MCM-02 | MCM-12 | MCM-02 | MCM-12 |
| Distance between | 75.63 | 458.82 | 75.63 | 458.82 |
| Head Well 1 | 8.47 | 5.91 | 8.57 | 6.13 |
| Head Well 2 | 8.42 | 4.45 | 8.50 | 4.43 |
| Hydraulic gradient i | 0.00066 | 0.00318 | 0.00093 | 0.00371 |
| K (cm/s site avg. from slug tests) | 0.0012 | 0.0012 | 0.0012 | 0.0012 |
| Effectively Porosity Ne (0.35 from HAR) | 0.35 | 0.35 | 0.35 | 0.35 |
| Velocity in cm/s | 2.27E-06 | 1.09E-05 | 3.17E-06 | 1.27E-05 |
| Velocity in ft/day | 0.0064 | 0.0309 | 0.0090 | 0.0360 |
| Velocity in ft/year | 2.35 | 11.29 | 3.28 | 13.14 |
| Average Velocity ft/day | 0.019 | | 0.023 | |
| Average Velocity ft/year | 6.82 | | 8.21 | |

K - Hydraulic Conductivity

HAR - Hydraulic Assessment Report

cm/s - Centimeters per second

ft/ day - feet per day

ft/year - feet per year

Table 8
 Federal and Georgia EPD Groundwater Protection Standards September 2022
 Plant McManus
 Former AP-1
 Brunswick, Georgia

| MCMANUS ASH POND GWPS – FEDERAL AND GEORGIA EPD | | | | |
|--|------------|------------|-------------------------|-------------|
| Constituent Name | MCL | RSL | 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 | | 55.8 | 55.8 |
| Fluoride, Total (mg/L) | 4 | | 1.5 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.029 | 0.04 |
| 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 | | 0.15 | 0.15 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

Groundwater Protection Standards from Appendix D - Groundwater Stats Consulting, September 2022

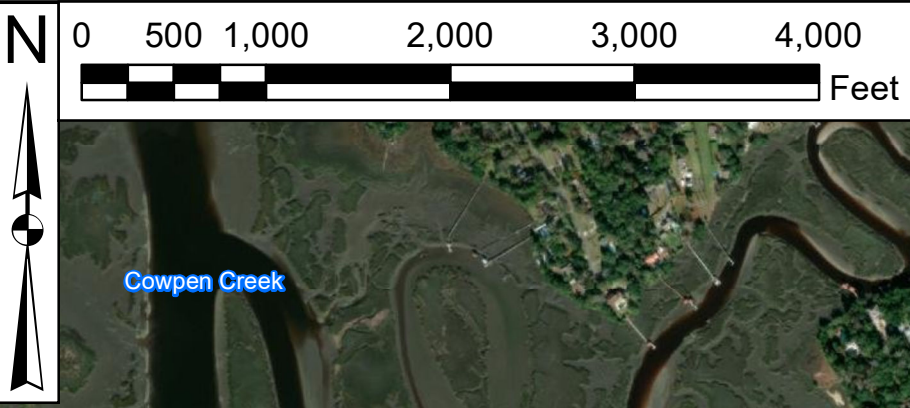
Notes:

mg/L = milligram per liter;
 pCi/L = picocuries per liter;
 n/a = Not Available;
 MCL = Maximum Contaminant Level;
 RSL = Rule Specified Limit (Adopted by EPD on February 2022)

[1] The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95 (h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).

[2] Under 40 CFR § 257(h)(1-3) the GWPS is: (i) the MCL, (ii) where the MCL is not established, the rule specific GWPS, or (iii) background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

FIGURES



Legend
 CCR Permitted Boundary

Resolute
 Environmental & Water Resources Consulting

**Plant McManus
 Former AP-1
 Site Location Map**
 Brunswick, GA

**Figure
 1**

Woodstock, GA February 2023



Legend

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

MCM-12 Groundwater Elevation (Detection Well)
4.45

MCM-08 Groundwater Elevation (Piezometer)
3.43

DPZ-04 Groundwater Elevation (Deep Piezometer)
3.06*

DPZ-02 Groundwater Elevation (Assessment Well)
2.71*

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



| | | | | |
|--|--|---|---------------|---------------------|
| | | Plant McManus Former AP-1 Potentiometric Surface Map Low Tide September 22, 2022 | | Figure 2 |
| | | Woodstock, GA | February 2023 | |

2022 Semiannual Groundwater Monitoring and Corrective Action Report



Legend

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

MCM-12 Groundwater Elevation (Detection Well)
4.45

MCM-08 Groundwater Elevation (Piezometer)
3.43

DPZ-04 Groundwater Elevation (Deep Piezometer)
3.06*

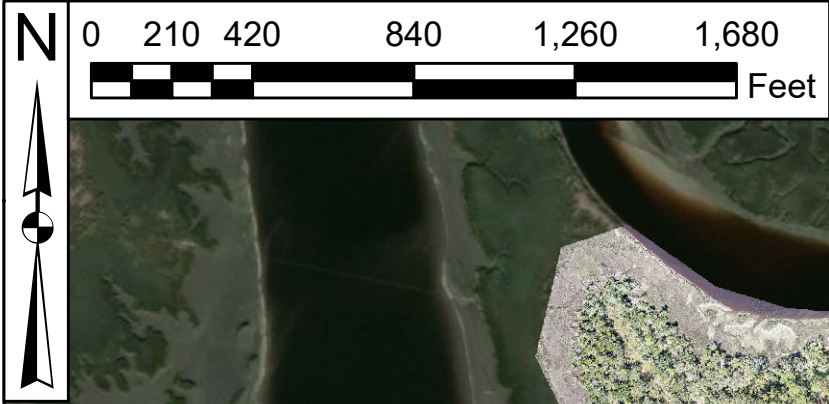
DPZ-02 Groundwater Elevation (Assessment Well)
4.21*

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






| | | | | |
|--|--|--|---------------|---------------------|
| | | Plant McManus Former AP-1 Potentiometric Surface Map High Tide September 21, 2022 | | Figure 3 |
| | | Woodstock, GA | February 2023 | |

2022 Semiannual Groundwater Monitoring and Corrective Action Report



Legend

-  Detection Well
-  Assessment Well
-  CCR Permitted Boundary

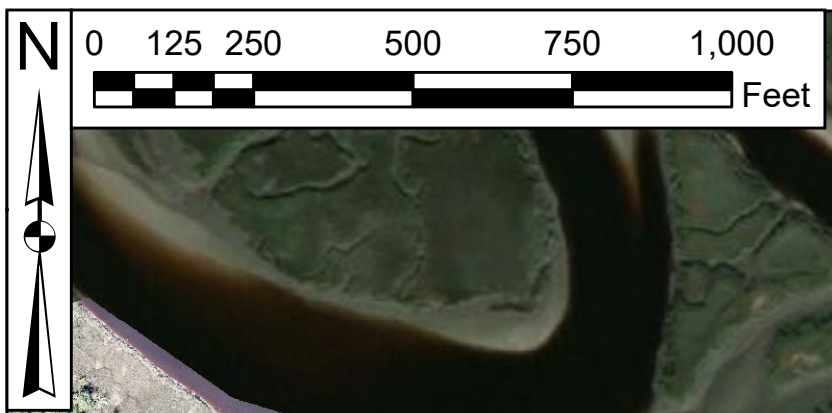
Resolute
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Woodstock, GA February 2023

**Plant McManus
Former AP-1
Monitoring Well Location Map**
Brunswick, GA

**Figure
4**

2022 Semiannual Groundwater Monitoring and Corrective Action Report



Legend

- Piezometer
- Deep Piezometer
- CCR Permitted Boundary



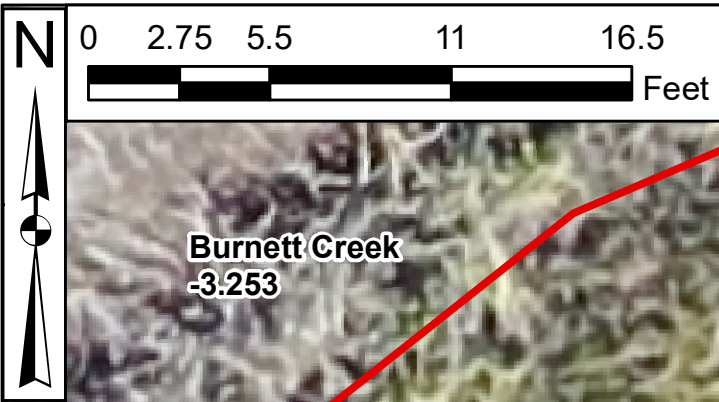
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Woodstock, GA February 2023

**Plant McManus
Former AP-1
Piezometer Location Map**

Brunswick, GA

**Figure
5**



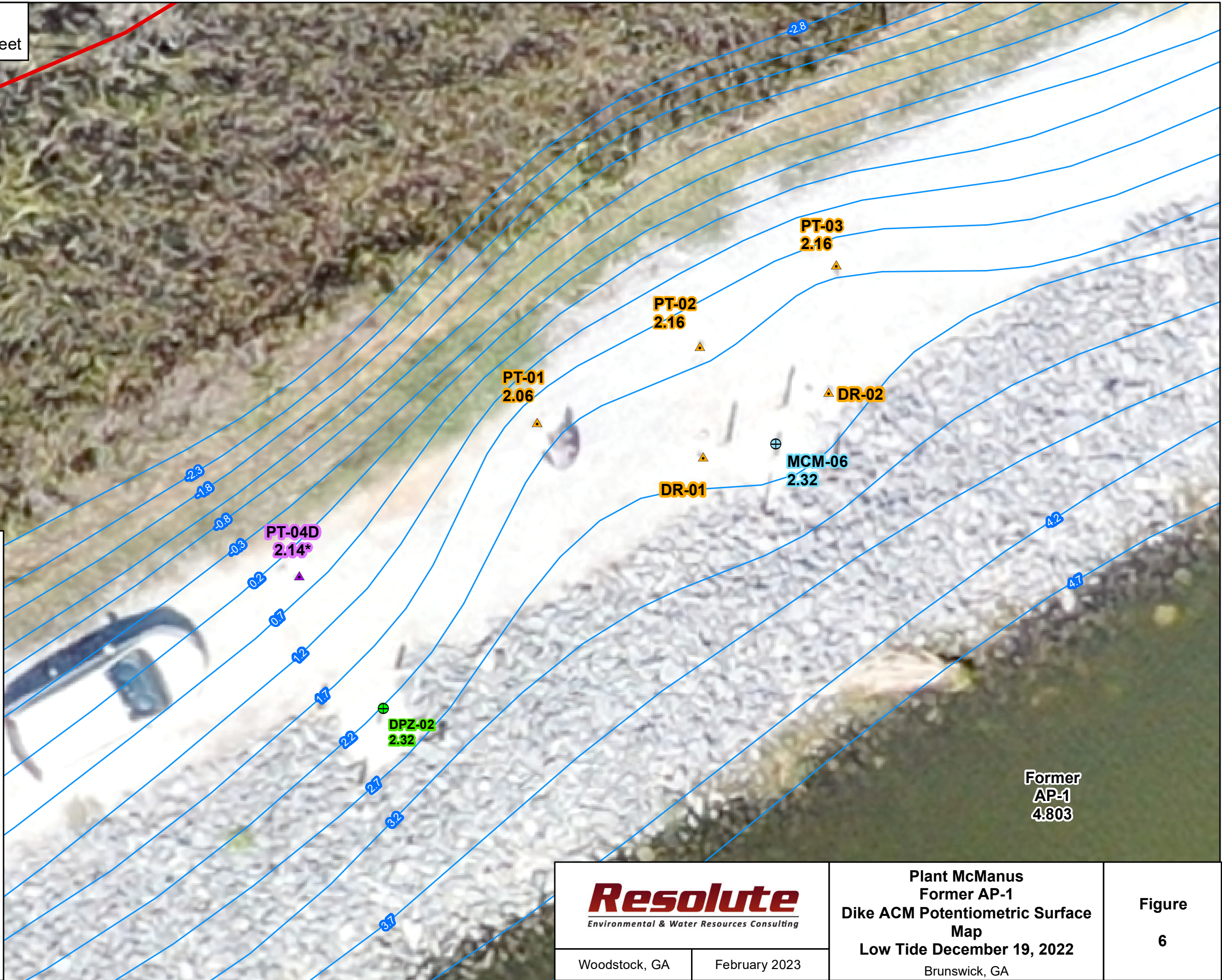
Burnett Creek
-3.253



Legend

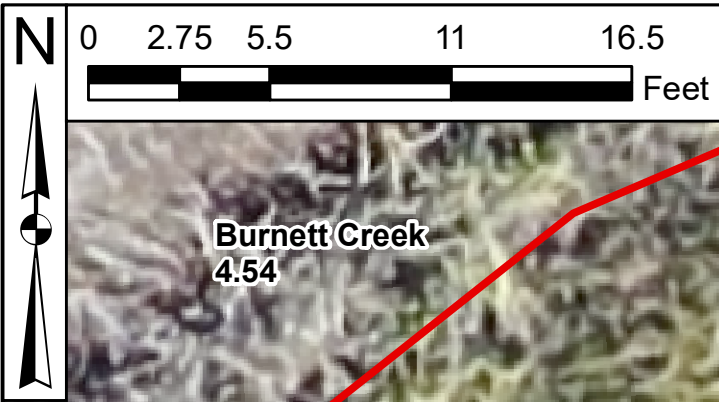
- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- 2022-12-19 LT Potentiometric Surface
- CCR Permitted Boundary
- MCM-06 Groundwater Elevation (Detection Well)
2.32
- PT-01 Groundwater Elevation (Piezometer)
2.06
- PT-04D Groundwater Elevation (Deep Piezometer)
2.14*
- DPZ-02 Groundwater Elevation (Assessment Well)
2.32*

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



Former
AP-1
4.803

| | | | |
|---------------|---------------|--|---------------------|
| | | Plant McManus Former AP-1 Dike ACM Potentiometric Surface Map Low Tide December 19, 2022 Brunswick, GA | Figure 6 |
| Woodstock, GA | February 2023 | | |



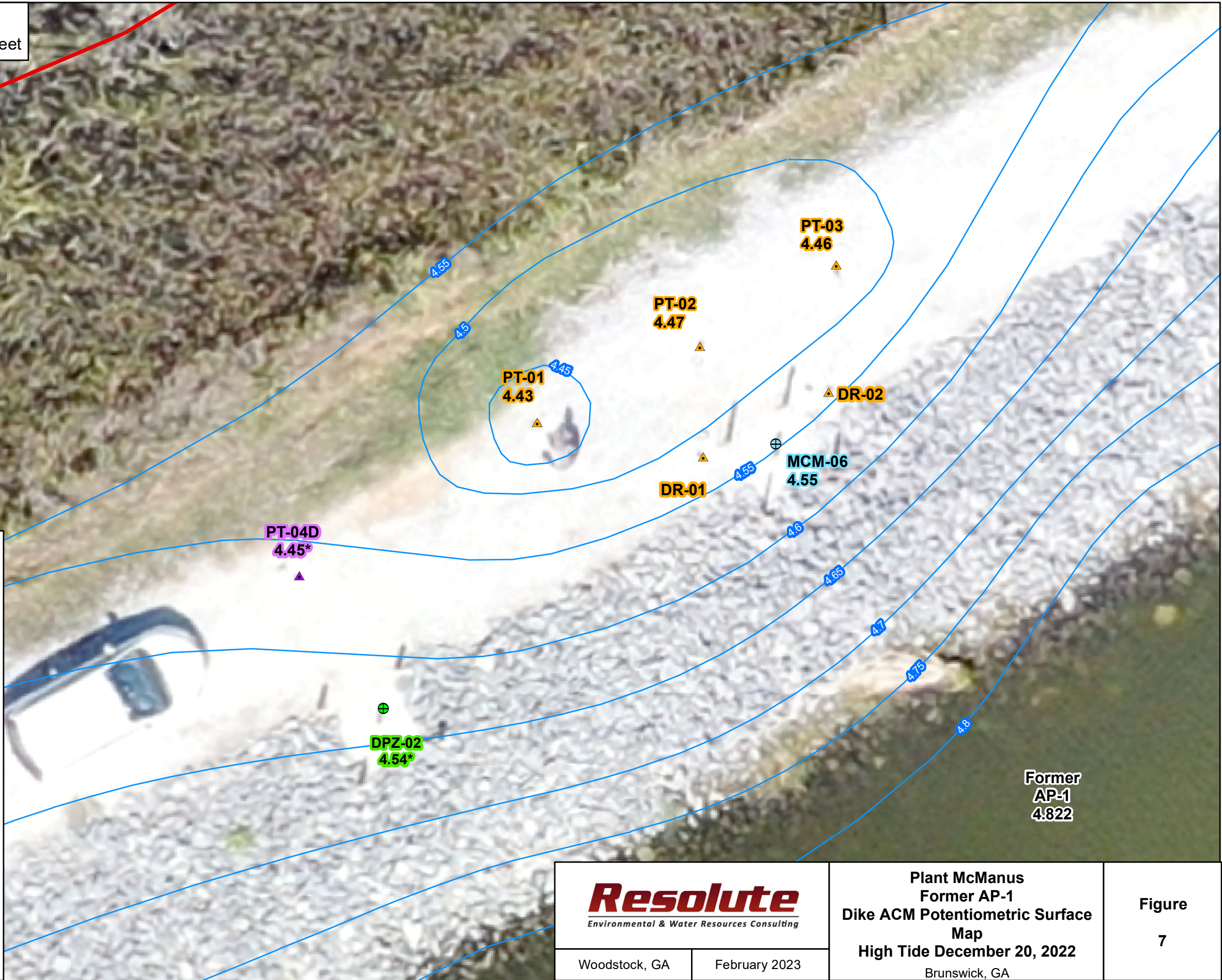
Burnett Creek
4.54



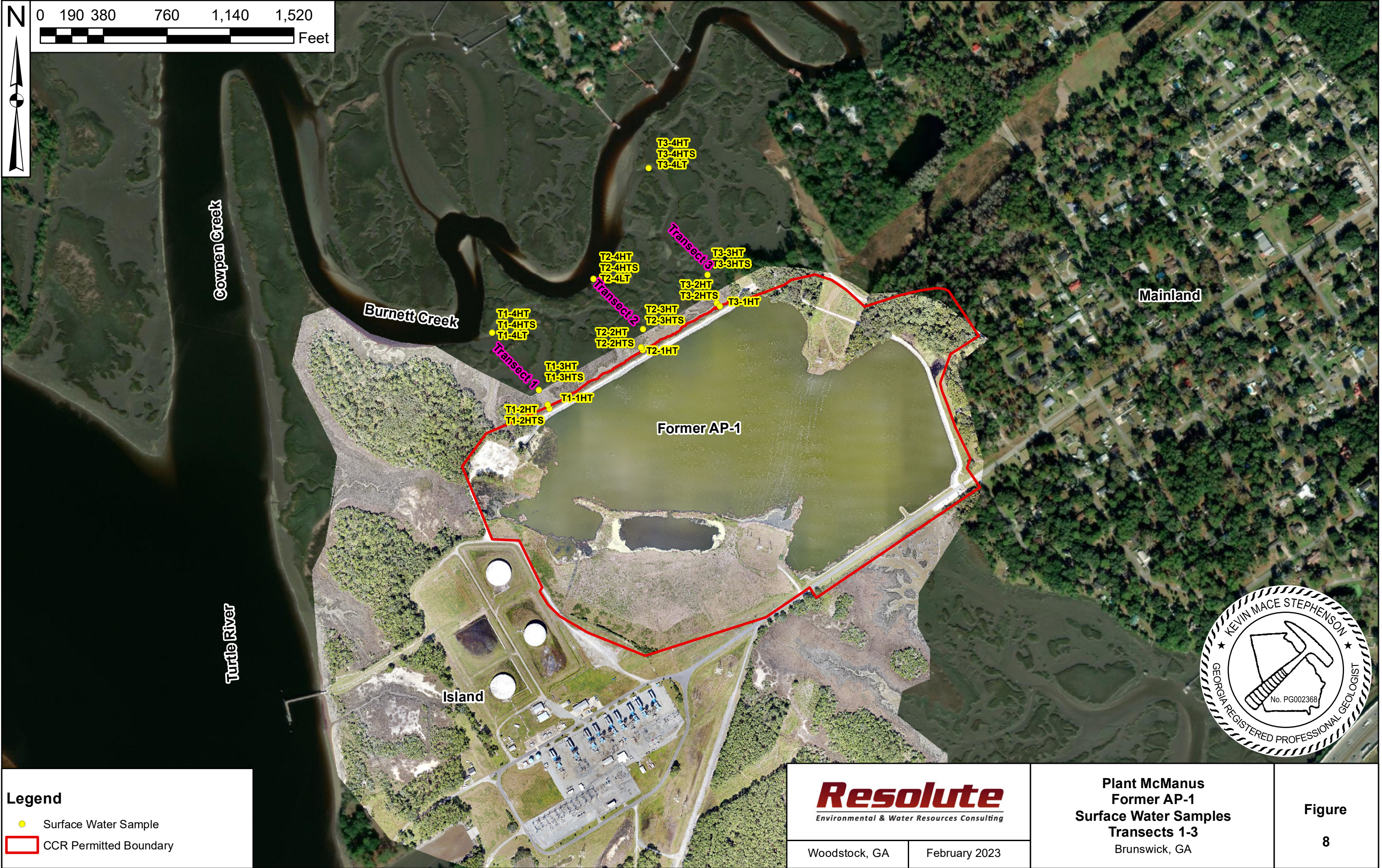
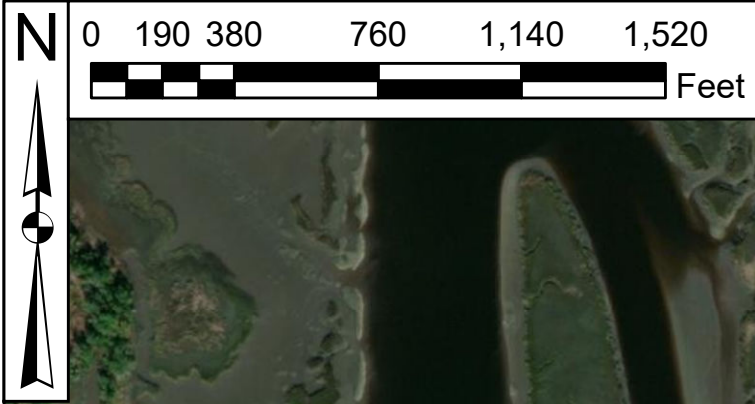
Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- 2022-12-20 HT Potentiometric Surface
- CCR Permitted Boundary
- MCM-06
4.55 Groundwater Elevation (Detection Well)
- PT-01
4.43 Groundwater Elevation (Piezometer)
- PT-04D
4.45* Groundwater Elevation (Deep Piezometer)
- DPZ-02
4.54* Groundwater Elevation (Assessment Well)

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



| | | | |
|---------------|---------------|--|-------------------------------|
| | | Plant McManus Former AP-1 Dike ACM Potentiometric Surface Map High Tide December 20, 2022 | Figure 7 |
| Woodstock, GA | February 2023 | Brunswick, GA | |



2022 Semiannual Groundwater Monitoring and Corrective Action Report

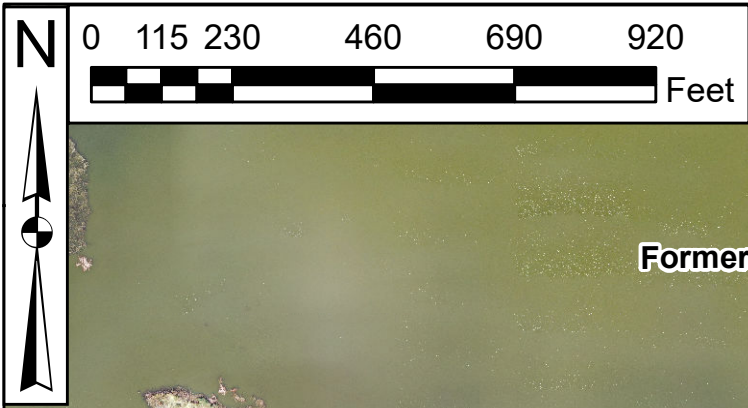
| Legend | |
|--|------------------------|
| ● | Surface Water Sample |
| | CCR Permitted Boundary |

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| | |
|---------------|---------------|
| Woodstock, GA | February 2023 |
|---------------|---------------|

**Plant McManus
Former AP-1
Surface Water Samples
Transects 1-3
Brunswick, GA**

**Figure
8**



| |
|---|
| Legend |
| ● Surface Water Sample |
| CCR Permitted Boundary |

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Environmental & Water Resources Consulting

Woodstock, GA February 2023

**Plant McManus
Former AP-1
Surface Water Samples
Transect 4
Brunswick, GA**

**Figure
9**

2022 Semiannual Groundwater Monitoring and Corrective Action Report

Source: Esri, Maxar, G
Earthstar Geographics,

APPENDIX A

WELL INSTALLATION, MAINTENANCE AND REPAIR DOCUMENTATION

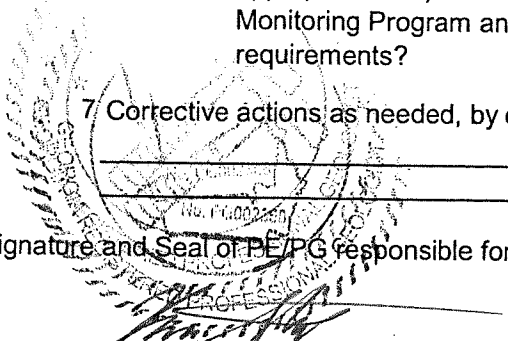
Groundwater Monitoring Well Integrity Form

Site Name McManns
 Permit Number _____
 Well ID _____
 Date 9/21/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



Groundwater Monitoring Well Integrity Form

Site Name McManns
 Permit Number _____
 Well ID MCM-02
 Date 9/21/22

- | | | yes | no | n/a |
|----------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | | |
|----------------------------|---|-------------------------------------|--------------------------|--------------------------|
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

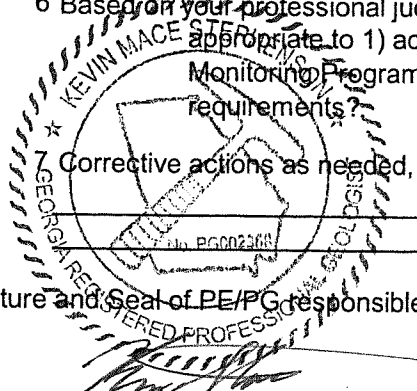
- | | | | | |
|----------------------|--|-------------------------------------|--------------------------|--------------------------|
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | | |
|--------------------------|---|-------------------------------------|--------------------------|--------------------------|
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | | |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions as needed, by date: _____



Signature and Seal of PE/PG responsible for inspection

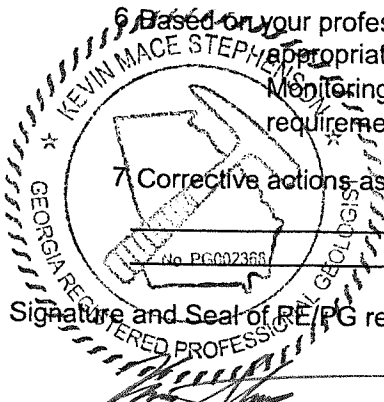
Groundwater Monitoring Well Integrity Form

Site Name _____
 Permit Number McManns
 Well ID _____
 Date McM-03
9/20/22

| | yes | no | n/a |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?
 style="text-align: center;">

7 Corrective actions, as needed, by date:



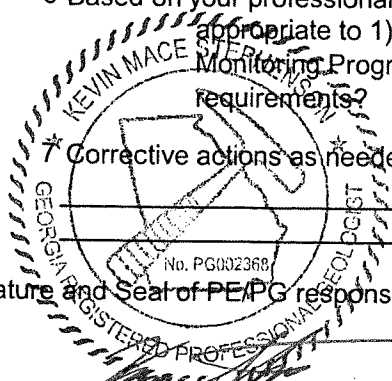
Signature and Seal of RE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name McManns
 Permit Number _____
 Well ID MGW-04
 Date 9/21/23

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date: _____



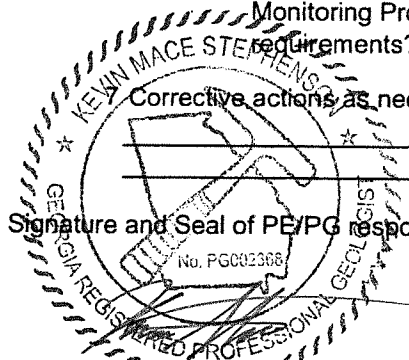
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID MCM-05
 Date 9/21/22

| | yes | no | n/a |
|--|----------|----------|-------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c Does the casing have a functioning weep hole? | <u>X</u> | _____ | _____ |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e Is the well locked and is the lock in good condition? | <u>X</u> | _____ | _____ |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c Is the well properly vented for equilibration of air pressure? | <u>X</u> | _____ | _____ |
| d Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <u>X</u> | _____ | _____ |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <u>X</u> | _____ | _____ |
| c Does the well require redevelopment (low flow, turbid)? | _____ | <u>X</u> | _____ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <u>X</u> | _____ | _____ |

Corrective actions, as needed, by date:



Signature and Seal of PE/PG responsible for inspection

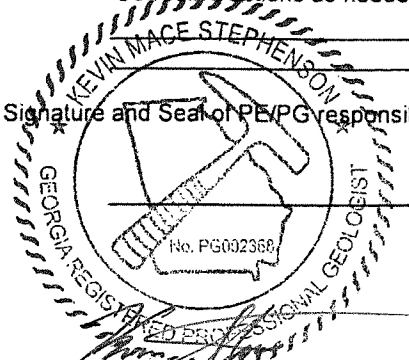
Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MCM-06
 Date 9/20/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

 Signature and Seal of PE/PG responsible for inspection



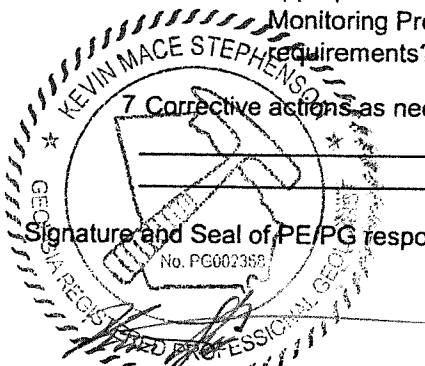
Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID MCM-07
 Date 9/21/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions, as needed, by date:

Signature and Seal of PE/PG responsible for inspection



Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID MCM-08
 Date 9/20/22

- 1 Location/Identification**
- | | | yes | no | n/a |
|---|--|-------------------------------------|-------------------------------------|--------------------------|
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 2 Protective Casing**
- | | | | | |
|---|---|-------------------------------------|--------------------------|--------------------------|
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 3 Surface pad**
- | | | | | |
|---|--|-------------------------------------|--------------------------|--------------------------|
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

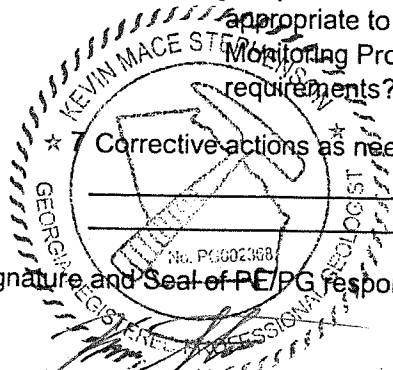
- 4 Internal casing**
- | | | | | |
|---|---|-------------------------------------|--------------------------|--------------------------|
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 5 Sampling: Groundwater Wells Only:**
- | | | | | |
|---|---|--------------------------|--------------------------|-------------------------------------|
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

| | | | |
|--|-------------------------------------|--------------------------|--------------------------|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|-------------------------------------|--------------------------|--------------------------|

7 Corrective actions as needed, by date:

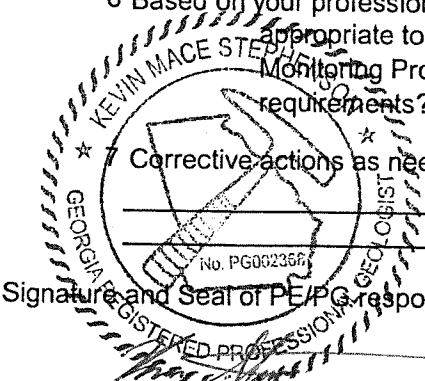
Signature and Seal of PE/PG responsible for inspection


Groundwater Monitoring Well Integrity Form

Site Name _____
 Permit Number McMdowns
 Well ID _____
 Date MCM-10
9/20/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

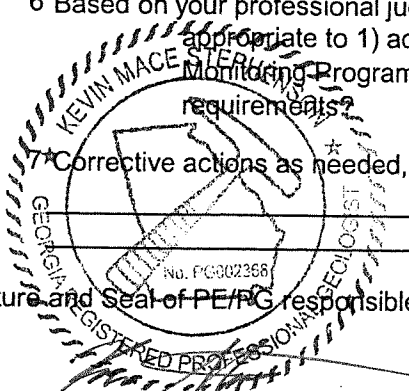
Groundwater Monitoring Well Integrity Form

Site Name McManns
 Permit Number _____
 Well ID MCM-11
 Date 9/21/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection



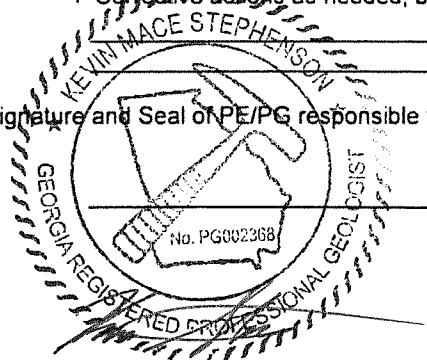
Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MCM-12
 Date 9/21/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection _____



Groundwater Monitoring Well Integrity Form

Site Name _____
 Permit Number McMannus
 Well ID _____
 Date 11/13

- | | | yes | no | n/a |
|----------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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|----------------------------|---|-------------------------------------|--------------------------|--------------------------|
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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|----------------------|--|-------------------------------------|--------------------------|--------------------------|
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | | |
|--------------------------|---|-------------------------------------|--------------------------|--------------------------|
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | | |
|--|---|--------------------------|--------------------------|-------------------------------------|
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

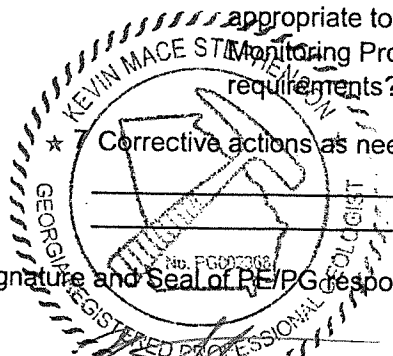
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

yes no n/a

_____ _____ _____

Corrective actions as needed, by date:

 Signature and Seal of PE/PG responsible for inspection



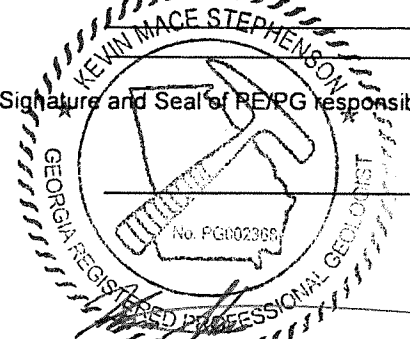
Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MCM-14
 Date 9/21/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

 Signature and Seal of R/PG responsible for inspection

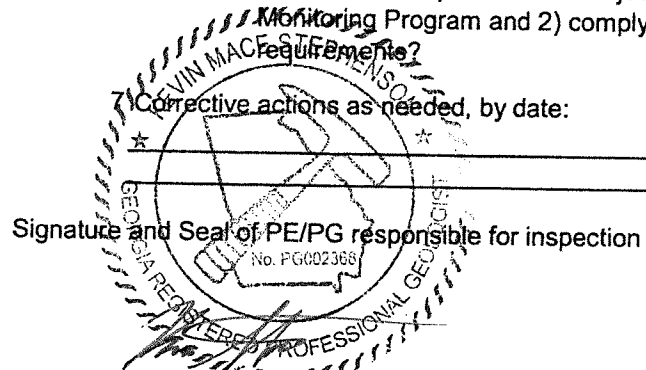


Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID MCM-15
 Date 9/21/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date: _____



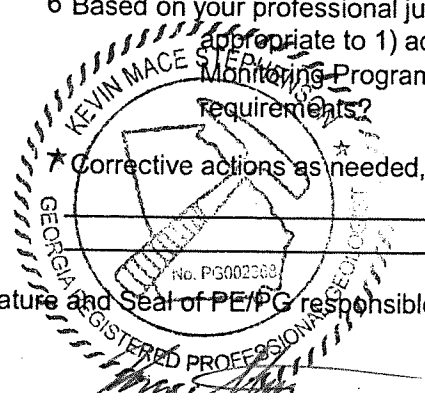
Groundwater Monitoring Well Integrity Form

Site Name McManns
 Permit Number _____
 Well ID MCM-16
 Date 9/2/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

★ Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

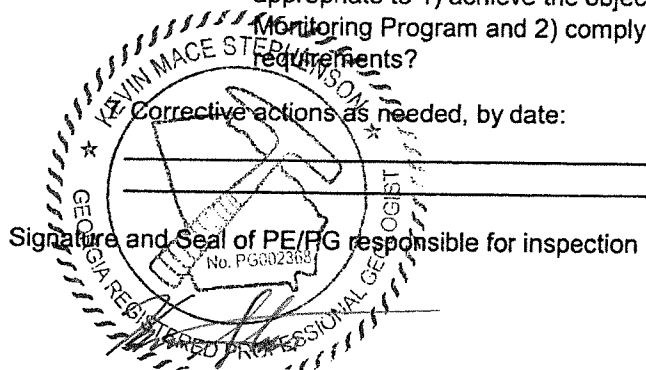


Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID MCM-17
 Date _____

| | yes | no | n/a |
|--|----------|----------|-------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c Does the casing have a functioning weep hole? | <u>X</u> | _____ | _____ |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e Is the well locked and is the lock in good condition? | <u>X</u> | _____ | _____ |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c Is the well properly vented for equilibration of air pressure? | <u>X</u> | _____ | _____ |
| d Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <u>X</u> | _____ | _____ |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <u>X</u> | _____ | _____ |
| c Does the well require redevelopment (low flow, turbid)? | _____ | <u>X</u> | _____ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <u>X</u> | _____ | _____ |

Corrective actions as needed, by date: _____

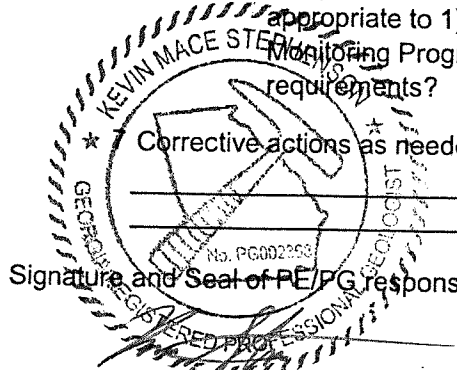


Groundwater Monitoring Well Integrity Form

Site Name Morlanus
 Permit Number _____
 Well ID MCN-18
 Date 9/20/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

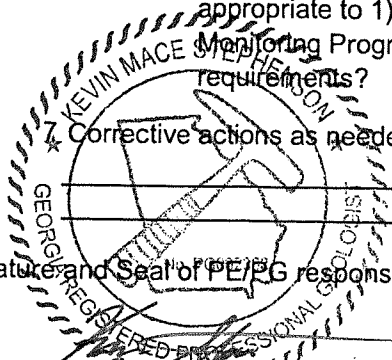
Groundwater Monitoring Well Integrity Form

Site Name McMans
 Permit Number _____
 Well ID MCW19
 Date 9/20/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date: _____

Signature and Seal of PE/PG responsible for inspection



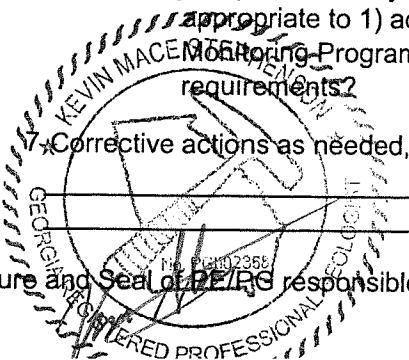
Signature: KEVIN MACE

Groundwater Monitoring Well Integrity Form

Site Name McManns
 Permit Number _____
 Well ID WCM-20
 Date 9/20/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Corrective actions as needed, by date:

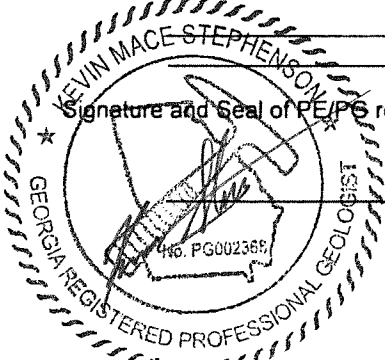
Signature and Seal of PE/PC responsible for inspection


Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID PZ-09
 Date 9/27/22

- | | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



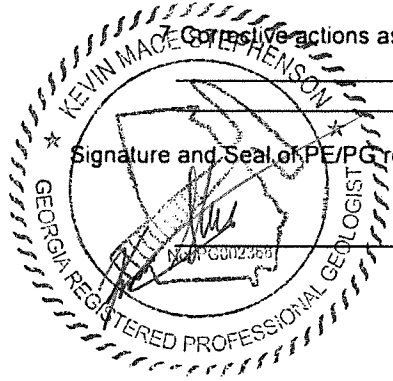
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID PZ-10
 Date 9/27/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date: _____



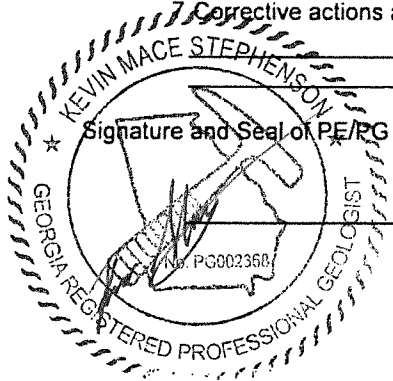
Signature and Seal of PE/PG responsible for inspection _____

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID PZ-11
 Date 9/27/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

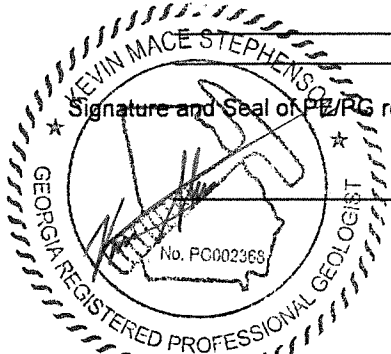
Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID PZ-12
 Date 9/27/22

| | | yes | no | n/a |
|--|---|-------|-------|-------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | ✓ | _____ | _____ |
| b | Is the well properly identified with the correct well ID? | ✓ | _____ | _____ |
| c | Is the well in a high traffic area and does the well require protection from traffic? | _____ | ✓ | _____ |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ✓ | _____ | _____ |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | ✓ | _____ | _____ |
| b | Is the casing free of degradation or deterioration? | ✓ | _____ | _____ |
| c | Does the casing have a functioning weep hole? | ✓ | _____ | _____ |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ✓ | _____ | _____ |
| e | Is the well locked and is the lock in good condition? | ✓ | _____ | _____ |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | ✓ | _____ | _____ |
| b | Is the well pad sloped away from the protective casing? | ✓ | _____ | _____ |
| c | Is the well pad in complete contact with the protective casing? | ✓ | _____ | _____ |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | ✓ | _____ | _____ |
| e | Is the pad surface clean (not covered with sediment or debris)? | ✓ | _____ | _____ |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | ✓ | _____ | _____ |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ✓ | _____ | _____ |
| c | Is the well properly vented for equilibration of air pressure? | ✓ | _____ | _____ |
| d | Is the survey point clearly marked on the inner casing? | ✓ | _____ | _____ |
| e | Is the depth of the well consistent with the original well log? | ✓ | _____ | _____ |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ✓ | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | _____ | _____ | ✓ |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | ✓ |
| c | Does the well require redevelopment (low flow, turbid)? | _____ | _____ | ✓ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | ✓ | _____ | _____ |

7 Corrective actions as needed, by date:

 Signature and Seal of PE/PG responsible for inspection



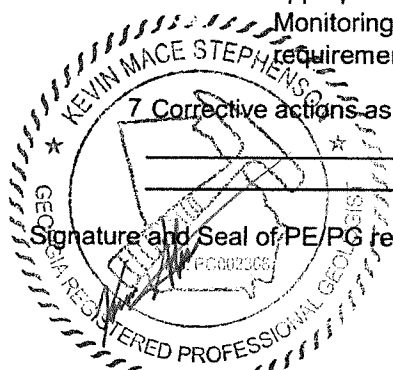
Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DPZ-01
 Date 9/22/22

| | yes | no | n/a |
|---|----------|----------|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c Does the casing have a functioning weep hole? | <u>X</u> | _____ | _____ |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e Is the well locked and is the lock in good condition? | <u>X</u> | _____ | _____ |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c Is the well properly vented for equilibration of air pressure? | <u>X</u> | _____ | _____ |
| d Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | _____ | _____ | <u>X</u> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | <u>X</u> |
| c Does the well require redevelopment (low flow, turbid)? | _____ | _____ | <u>X</u> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <u>X</u> | _____ | _____ |

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

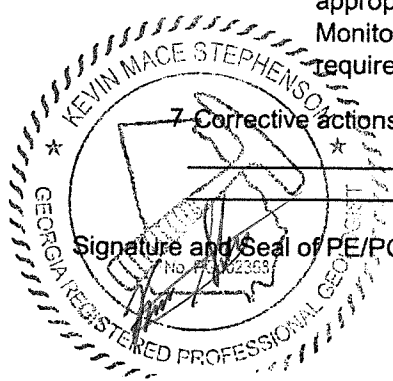


Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DP2-02
 Date 9/20/22

| | yes | no | n/a |
|--|----------|----------|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c Does the casing have a functioning weep hole? | <u>X</u> | _____ | _____ |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e Is the well locked and is the lock in good condition? | <u>X</u> | _____ | _____ |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c Is the well properly vented for equilibration of air pressure? | <u>X</u> | _____ | _____ |
| d Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <u>X</u> | _____ | _____ |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | <u>X</u> |
| c Does the well require redevelopment (low flow, turbid)? | _____ | <u>X</u> | _____ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <u>X</u> | _____ | _____ |

7 Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

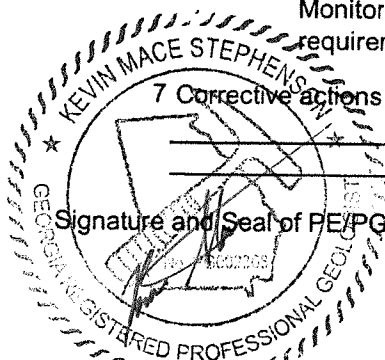
Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DPZ-03
 Date 4/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



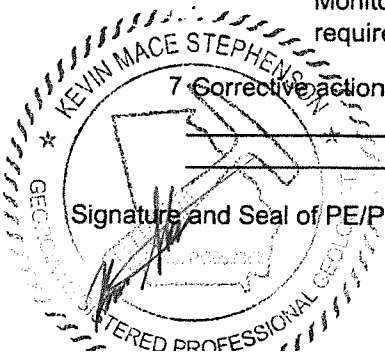
Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DPZ-04
 Date 9/22/22

| | yes | no | n/a |
|---|----------|----------|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c Does the casing have a functioning weep hole? | <u>X</u> | _____ | _____ |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e Is the well locked and is the lock in good condition? | <u>X</u> | _____ | _____ |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c Is the well properly vented for equilibration of air pressure? | <u>X</u> | _____ | _____ |
| d Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | _____ | _____ | <u>X</u> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | <u>X</u> |
| c Does the well require redevelopment (low flow, turbid)? | _____ | _____ | <u>X</u> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <u>X</u> | _____ | _____ |

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

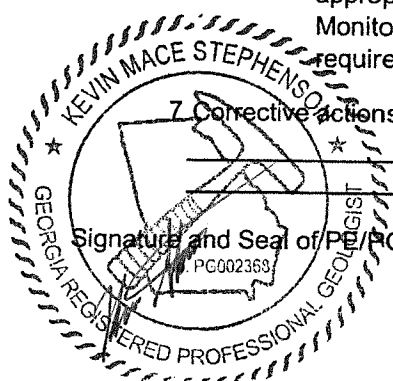


Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DPZ-05
 Date 9/22/22

| | yes | no | n/a |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



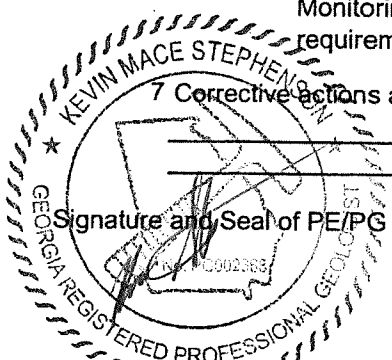
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DPZ-06
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



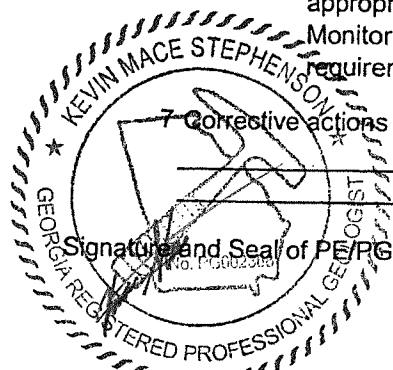
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-1
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



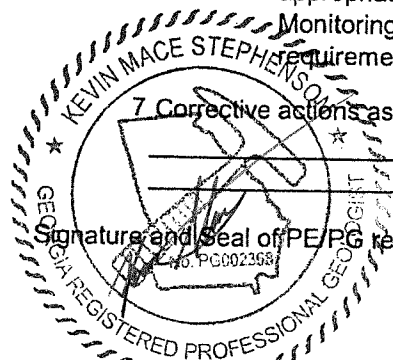
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-2
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



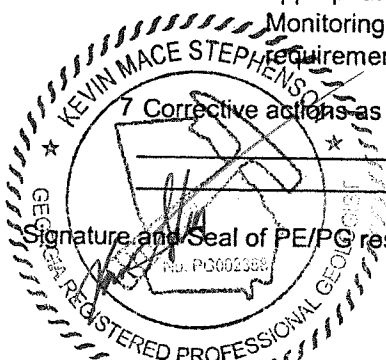
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-3
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------|-------|-------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | ✓ | _____ | _____ |
| b | Is the well properly identified with the correct well ID? | ✓ | _____ | _____ |
| c | Is the well in a high traffic area and does the well require protection from traffic? | _____ | ✓ | _____ |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ✓ | _____ | _____ |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | ✓ | _____ | _____ |
| b | Is the casing free of degradation or deterioration? | ✓ | _____ | _____ |
| c | Does the casing have a functioning weep hole? | ✓ | _____ | _____ |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ✓ | _____ | _____ |
| e | Is the well locked and is the lock in good condition? | ✓ | _____ | _____ |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | ✓ | _____ | _____ |
| b | Is the well pad sloped away from the protective casing? | ✓ | _____ | _____ |
| c | Is the well pad in complete contact with the protective casing? | ✓ | _____ | _____ |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | ✓ | _____ | _____ |
| e | Is the pad surface clean (not covered with sediment or debris)? | ✓ | _____ | _____ |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | ✓ | _____ | _____ |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ✓ | _____ | _____ |
| c | Is the well properly vented for equilibration of air pressure? | ✓ | _____ | _____ |
| d | Is the survey point clearly marked on the inner casing? | ✓ | _____ | _____ |
| e | Is the depth of the well consistent with the original well log? | ✓ | _____ | _____ |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ✓ | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | _____ | _____ | ✓ |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | ✓ |
| c | Does the well require redevelopment (low flow, turbid)? | _____ | _____ | ✓ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | ✓ | _____ | _____ |

7 Corrective actions as needed, by date:



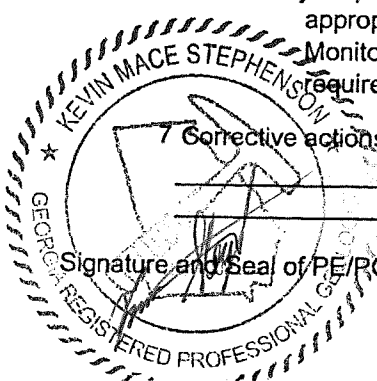
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-4
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



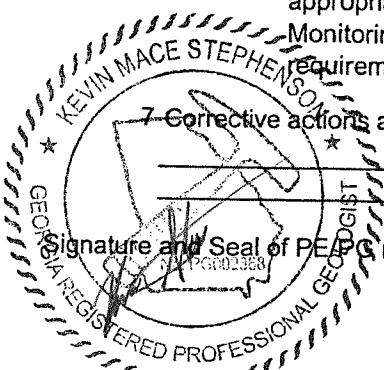
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-5
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



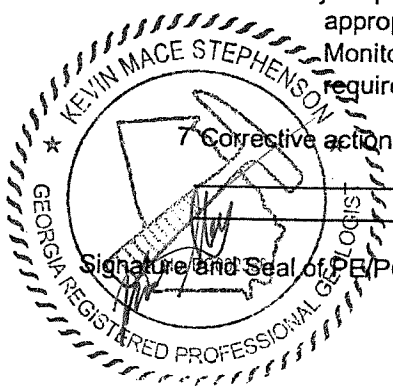
Signature and Seal of PEAPC responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-6
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



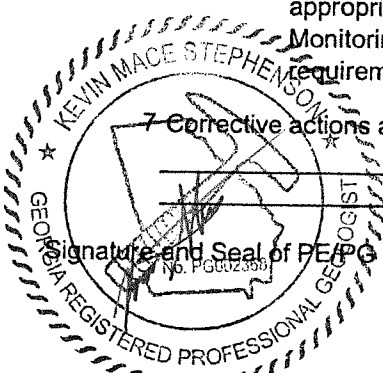
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Piant McManus
 Permit Number _____
 Well ID RW-7
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



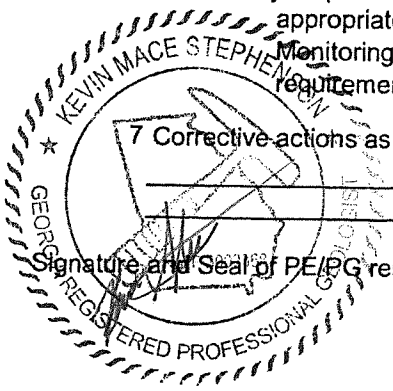
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-8
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



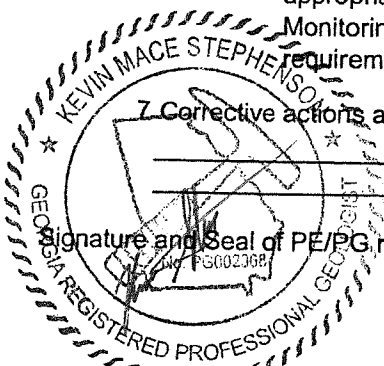
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-9
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7. Corrective actions, as needed, by date:

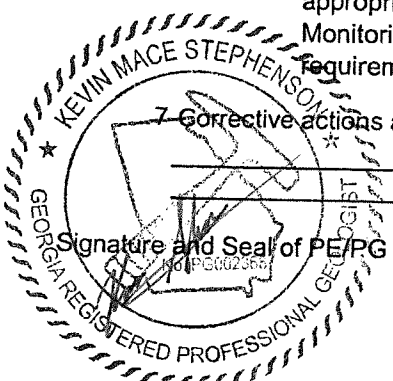


Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID RW-10
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Corrective actions as needed, by date: | | | |
| _____ | | | |
| _____ | | | |



Signature and Seal of PE/PG responsible for inspection

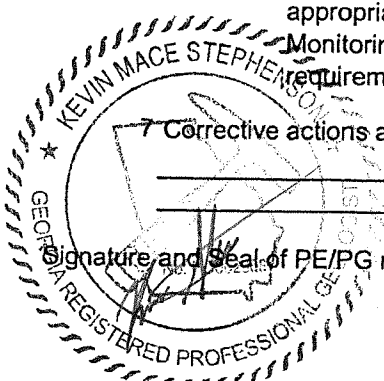
Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-01R
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

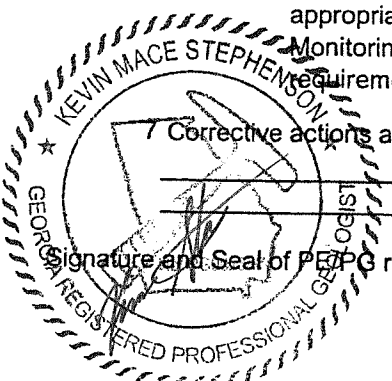


Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-02
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 | Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



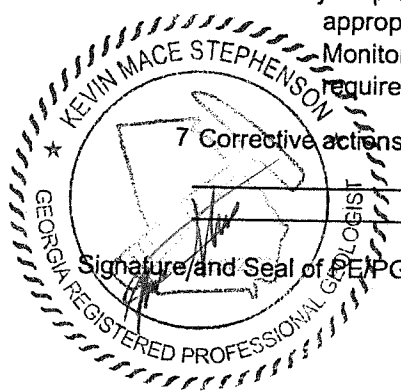
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-03
 Date 9/22/22

| | yes | no | n/a |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



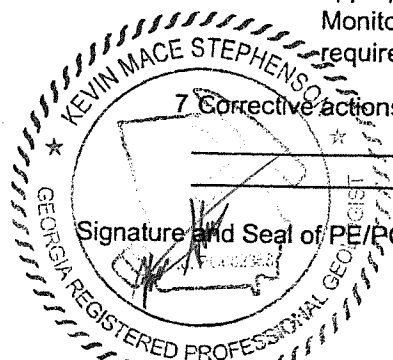
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-04
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



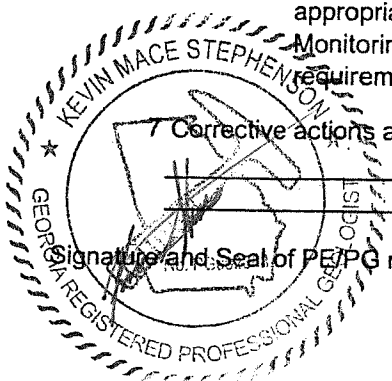
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-05
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-----|----|-----|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | ✓ | | |
| b | Is the well properly identified with the correct well ID? | ✓ | | |
| c | Is the well in a high traffic area and does the well require protection from traffic? | | | |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ✓ | ✓ | |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | ✓ | | |
| b | Is the casing free of degradation or deterioration? | ✓ | | |
| c | Does the casing have a functioning weep hole? | ✓ | | |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ✓ | | |
| e | Is the well locked and is the lock in good condition? | ✓ | | |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | ✓ | | |
| b | Is the well pad sloped away from the protective casing? | ✓ | | |
| c | Is the well pad in complete contact with the protective casing? | ✓ | | |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | ✓ | | |
| e | Is the pad surface clean (not covered with sediment or debris)? | ✓ | | |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | ✓ | | |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ✓ | | |
| c | Is the well properly vented for equilibration of air pressure? | ✓ | | |
| d | Is the survey point clearly marked on the inner casing? | ✓ | | |
| e | Is the depth of the well consistent with the original well log? | ✓ | | |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ✓ | | |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | | | ✓ |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | | ✓ |
| c | Does the well require redevelopment (low flow, turbid)? | | | ✓ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | ✓ | | |

7 Corrective actions as needed, by date:



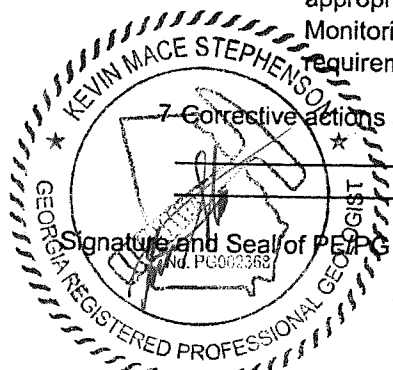
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-06R
 Date 9/22/22

| | yes | no | n/a |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



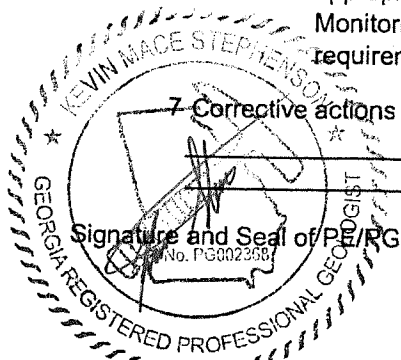
Signature and Seal of P.E. responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-07
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



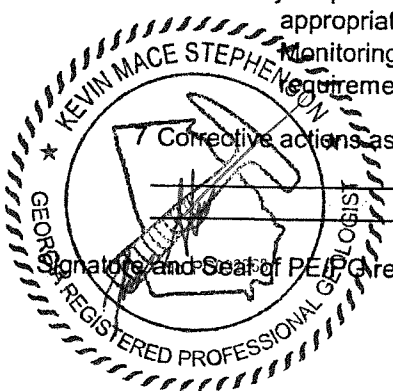
Signature and Seal of PE/RG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-09
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions, as needed, by date:



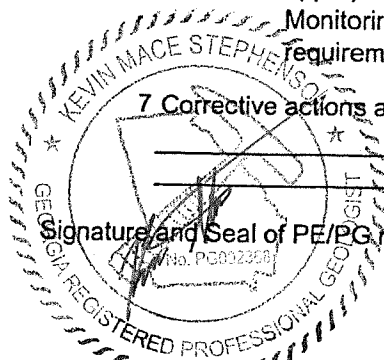
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-10
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



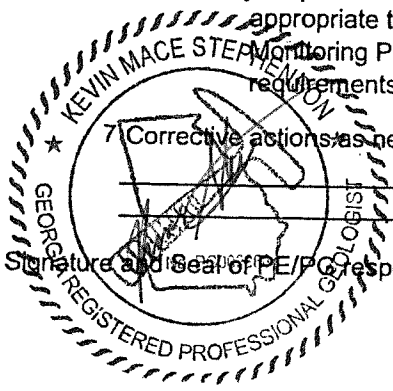
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID MW-11
 Date 9/22/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions, as needed, by date:



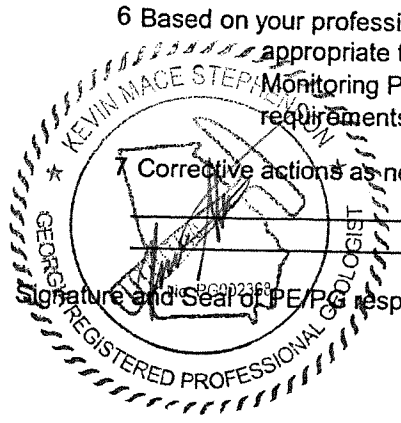
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Piant McManus
 Permit Number _____
 Well ID MW-12
 Date 9/22/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

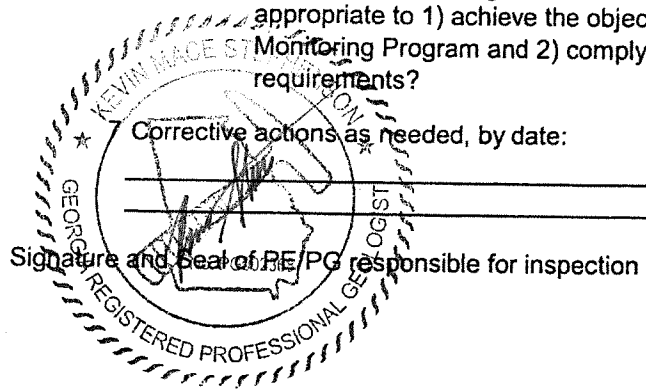
Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID PT-01
 Date 9/20/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Flush Mount

7 Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

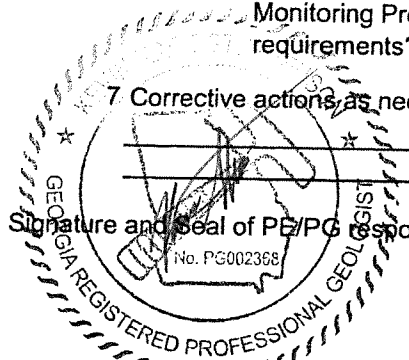
Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID PT-02
 Date 9/20/22

| | yes | no | n/a |
|--|----------|----------|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c Does the casing have a functioning weep hole? | _____ | _____ | <u>X</u> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e Is the well locked and is the lock in good condition? | _____ | _____ | <u>X</u> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c Is the well properly vented for equilibration of air pressure? | _____ | _____ | <u>X</u> |
| d Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <u>X</u> | _____ | _____ |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | <u>X</u> |
| c Does the well require redevelopment (low flow, turbid)? | _____ | <u>X</u> | _____ |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <u>X</u> | _____ | _____ |

Flush Mount

7 Corrective actions as needed, by date:



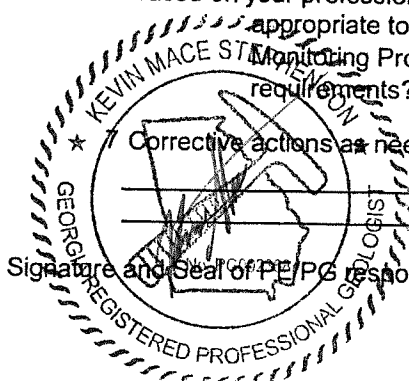
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McMarus
 Permit Number _____
 Well ID PT-03
 Date 9/20/22

| | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID PT-04D
 Date 9/21/22

- | | | yes | no | n/a |
|----------------------------------|--|----------|----------|-------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <u>X</u> | _____ | _____ |
| b | Is the well properly identified with the correct well ID? | <u>X</u> | _____ | _____ |
| c | Is the well in a high traffic area and does the well require protection from traffic? | _____ | <u>X</u> | _____ |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <u>X</u> | _____ | _____ |

- | | | | | |
|----------------------------|---|----------|-------|----------|
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <u>X</u> | _____ | _____ |
| b | Is the casing free of degradation or deterioration? | <u>X</u> | _____ | _____ |
| c | Does the casing have a functioning weep hole? | _____ | _____ | <u>X</u> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <u>X</u> | _____ | _____ |
| e | Is the well locked and is the lock in good condition? | _____ | _____ | <u>X</u> |

Flush Mount

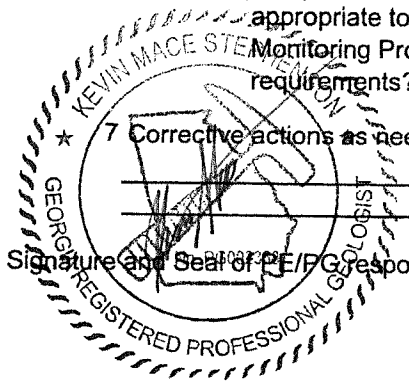
- | | | | | |
|----------------------|--|----------|-------|-------|
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <u>X</u> | _____ | _____ |
| b | Is the well pad sloped away from the protective casing? | <u>X</u> | _____ | _____ |
| c | Is the well pad in complete contact with the protective casing? | <u>X</u> | _____ | _____ |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <u>X</u> | _____ | _____ |
| e | Is the pad surface clean (not covered with sediment or debris)? | <u>X</u> | _____ | _____ |

- | | | | | |
|--------------------------|---|----------|-------|----------|
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <u>X</u> | _____ | _____ |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <u>X</u> | _____ | _____ |
| c | Is the well properly vented for equilibration of air pressure? | _____ | _____ | <u>X</u> |
| d | Is the survey point clearly marked on the inner casing? | <u>X</u> | _____ | _____ |
| e | Is the depth of the well consistent with the original well log? | <u>X</u> | _____ | _____ |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <u>X</u> | _____ | _____ |

- | | | | | |
|--|---|----------|----------|----------|
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <u>X</u> | _____ | _____ |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | _____ | _____ | <u>X</u> |
| c | Does the well require redevelopment (low flow, turbid)? | _____ | <u>X</u> | _____ |

| | | | |
|--|----------|-------|-------|
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | <u>X</u> | _____ | _____ |
|--|----------|-------|-------|

7 Corrective actions as needed, by date:



Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name McManus
 Permit Number _____
 Well ID DR-01
 Date 9/26/22

- | | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Does the casing have a functioning weep hole? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the well locked and is the lock in good condition? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Flush Mount

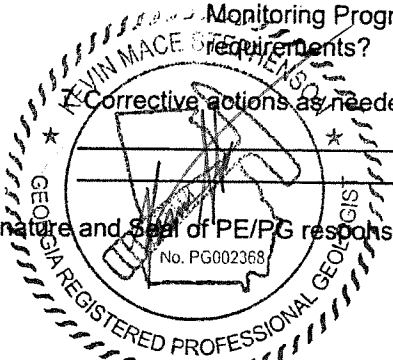
- | | | | |
|--|-------------------------------------|--------------------------|--------------------------|
| 3 Surface pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 4 Internal casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c Is the well properly vented for equilibration of air pressure? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 5 Sampling: Groundwater Wells Only: | | | |
| a Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?
 yes no n/a

Corrective actions as needed, by date: _____



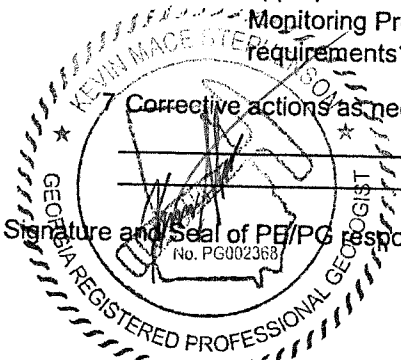
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant McManus
 Permit Number _____
 Well ID DR-02
 Date 9/20/22

| | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:





MEMORANDUM

Date: June 21, 2022
 To: Kristen Jurinko – Georgia Power
 CC: Ben Hodges
 From: Resolute Environmental
 Subject: Plant McManus Ash Pond - Well Maintenance and Repair Documentation
 Georgia Power Company

Resolute Environmental has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MCMANUS during the semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

| Georgia Power Site/Unit | Date Performed | Well ID | Maintenance/ Repair Performed |
|--------------------------------|-----------------------|----------------|--------------------------------------|
| Plant McManus Ash Pond | 6/14/22 | MCM-06 | Redeveloped Well |
| Plant McManus Ash Pond | 6/14/22 | DPZ-02 | Redeveloped Well |
| Plant McManus Ash Pond | 6/14/22 | PT-01 | Developed Well |
| Plant McManus Ash Pond | 6/14/22 | PT-02 | Developed Well |
| Plant McManus Ash Pond | 6/14/22 | PT-04D | Developed Well |
| Plant McManus Ash Pond | 6/14/22 | DR-02 | Developed Well |
| Plant McManus Ash Pond | 6/15/22 | DR-01 | Developed Well |
| Plant McManus Ash Pond | 6/15/22 | PT-03 | Developed Well |



MEMORANDUM

Date: June 30, 2022
 To: Kristen Jurinko – Georgia Power
 CC: Ben Hodges
 From: Resolute Environmental
 Subject: Plant McManus Ash Pond - Well Maintenance and Repair Documentation
 Georgia Power Company

Resolute Environmental has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MCMANUS during the semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

| Georgia Power Site/Unit | Date Performed | Well ID | Maintenance/ Repair Performed |
|--------------------------------|-----------------------|----------------|---|
| Plant McManus Ash Pond | 6/27/22 | DPZ-02 | Installed MCM-13's AquaTROLL 200 |
| Plant McManus Ash Pond | 6/27/22 | MCM-13 | Installed DPZ-02's Level TROLL 500 |
| Plant McManus Ash Pond | 6/28/22 | MW-04 | New pad poured around existing pad to ensure ground contact |
| Plant McManus Ash Pond | 6/29/22 | PT-03 | Added concrete floor to flush mount vault |
| Plant McManus Ash Pond | 6/29/22 | DR-01 | Added concrete floor to flush mount vault |
| | | | |
| | | | |
| | | | |



MEMORANDUM

Date: February 28, 2023
 To: Kristen Jurinko – Georgia Power
 CC: Ben Hodges
 From: Resolute Environmental
 Subject: Plant McManus Ash Pond - Well Maintenance and Repair Documentation
 Georgia Power Company

Resolute Environmental has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MCMANUS during the semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

| Georgia Power Site/Unit | Date Performed | Well ID | Maintenance/ Repair Performed |
|--------------------------------|-----------------------|----------------|--|
| Plant McManus Ash Pond | 9/27/22 | MCM-10 | Installed Level TROLL 500 |
| Plant McManus Ash Pond | 9/27/22 | MCM-17 | Replaced broken transducer with new AquaTROLL 200 unit |
| Plant McManus Ash Pond | 9/27/22 | MCM-19 | Replaced broken transducer with new AquaTROLL 200 unit |
| Plant McManus Ash Pond | 9/27/22 | MCM-20 | Replaced broken transducer with new AquaTROLL 200 unit |
| Plant McManus Ash Pond | 10/5/22 | PT-01 | Installed AquaTROLL 200 |
| Plant McManus Ash Pond | 10/5/22 | PT-02 | Installed AquaTROLL 200 |
| Plant McManus Ash Pond | 10/5/22 | PT-03 | Installed AquaTROLL 200 |
| Plant McManus Ash Pond | 10/5/22 | PT-04D | Installed AquaTROLL 200 |
| Plant McManus Ash Pond | 12/01/22 | PT-02 | Added concrete floor to flush mount vault |

APPENDIX B

LABORATORY ANALYTICAL, DATA VALIDATION AND FIELD SAMPLING REPORTS

July 27, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joe Booth, Resolute Environmental & Water Resources
Trent Godwin, Resolute Environmental & Water Resources
Kristen Jurinko
Laura Midkiff, Georgia Power
Ms. Lauren Petty, Southern Company
Kevin Stephenson, Resolute Environmental & Water Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92612546001 | PT-01 | Water | 06/28/22 15:55 | 06/30/22 11:05 |
| 92612546002 | PT-02 | Water | 06/28/22 10:00 | 06/30/22 11:05 |
| 92612546003 | PT-03 | Water | 06/28/22 14:50 | 06/30/22 11:05 |
| 92612546004 | PT-04D | Water | 06/28/22 14:20 | 06/30/22 11:05 |
| 92612546005 | DR-01 | Water | 06/28/22 14:52 | 06/30/22 11:05 |
| 92612546006 | DR-02 | Water | 06/28/22 16:05 | 06/30/22 11:05 |
| 92612546007 | MCM-06 | Water | 06/28/22 16:00 | 06/30/22 11:05 |
| 92612546008 | DPZ-02 | Water | 06/28/22 11:45 | 06/30/22 11:05 |
| 92612546009 | DUP-1 | Water | 06/28/22 00:00 | 06/30/22 11:05 |
| 92612546010 | FB-1 | Water | 06/28/22 10:40 | 06/30/22 11:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| 92612546001 | PT-01 | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| 92612546002 | PT-02 | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| 92612546003 | PT-03 | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| 92612546004 | PT-04D | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| 92612546005 | DR-01 | EPA 6010D | DM | 5 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| 92612546006 | DR-02 | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| | | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| 92612546007 | MCM-06 | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| | | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| 92612546008 | DPZ-02 | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| | | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| 92612546009 | DUP-1 | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |
| 92612546010 | FB-1 | EPA 6010D | DM | 5 | PASI-M |
| | | EPA 6010D | IP | 5 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | EPA 6020B | PW1 | 1 | PASI-M |
| | | SM 2320B-2011 | SMS | 1 | PASI-A |
| | | SM 2540C-2011 | MAB2 | 1 | PASI-A |
| | | SM 4500-S2D-2011 | JP1 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 | PASI-A |
| | | SM 4500-CI-E-2011 | ANM | 1 | PASI-A |

PASI-A = Pace Analytical Services - Asheville
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|----------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92612546001 | PT-01 | | | | | |
| EPA 6010D | Calcium | 81.1 | mg/L | 0.50 | 07/07/22 11:32 | |
| EPA 6010D | Iron | 0.22 | mg/L | 0.050 | 07/07/22 11:32 | |
| EPA 6010D | Magnesium | 179 | mg/L | 0.50 | 07/07/22 11:32 | |
| EPA 6010D | Potassium | 101 | mg/L | 2.5 | 07/07/22 11:32 | |
| EPA 6010D | Sodium | 1800 | mg/L | 25.0 | 07/07/22 12:34 | P6 |
| EPA 6010D | Calcium, Dissolved | 75.9 | mg/L | 0.50 | 07/07/22 13:49 | |
| EPA 6010D | Iron, Dissolved | 0.062 | mg/L | 0.050 | 07/07/22 13:49 | |
| EPA 6010D | Magnesium, Dissolved | 174 | mg/L | 0.50 | 07/07/22 13:49 | P6 |
| EPA 6010D | Potassium, Dissolved | 89.3 | mg/L | 2.5 | 07/07/22 13:49 | P6 |
| EPA 6010D | Sodium, Dissolved | 2100 | mg/L | 20.0 | 07/07/22 14:37 | P6 |
| EPA 6020B | Arsenic | 0.026 | mg/L | 0.00050 | 07/15/22 15:39 | |
| EPA 6020B | Arsenic, Dissolved | 0.028 | mg/L | 0.00050 | 07/15/22 14:22 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 290 | mg/L | 5.0 | 07/05/22 11:39 | |
| SM 2540C-2011 | Total Dissolved Solids | 6820 | mg/L | 500 | 07/01/22 10:53 | |
| SM 4500-S2D-2011 | Sulfide | 18.7 | mg/L | 2.5 | 07/01/22 03:59 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 269 | mg/L | 50.0 | 07/01/22 10:48 | |
| SM 4500-Cl-E-2011 | Chloride | 3950 | mg/L | 500 | 07/05/22 14:44 | |
| 92612546002 | PT-02 | | | | | |
| EPA 6010D | Calcium | 56.7 | mg/L | 0.50 | 07/07/22 11:41 | |
| EPA 6010D | Iron | 0.22 | mg/L | 0.050 | 07/07/22 11:41 | |
| EPA 6010D | Magnesium | 124 | mg/L | 0.50 | 07/07/22 11:41 | |
| EPA 6010D | Potassium | 81.1 | mg/L | 2.5 | 07/07/22 11:41 | |
| EPA 6010D | Sodium | 1340 | mg/L | 10.0 | 07/07/22 12:01 | |
| EPA 6010D | Calcium, Dissolved | 54.9 | mg/L | 0.50 | 07/07/22 14:19 | |
| EPA 6010D | Iron, Dissolved | 0.051 | mg/L | 0.050 | 07/07/22 14:19 | |
| EPA 6010D | Magnesium, Dissolved | 125 | mg/L | 0.50 | 07/07/22 14:19 | |
| EPA 6010D | Potassium, Dissolved | 75.6 | mg/L | 2.5 | 07/07/22 14:19 | |
| EPA 6010D | Sodium, Dissolved | 1460 | mg/L | 20.0 | 07/07/22 14:46 | |
| EPA 6020B | Arsenic | 0.0019 | mg/L | 0.00050 | 07/15/22 15:42 | |
| EPA 6020B | Arsenic, Dissolved | 0.0018 | mg/L | 0.00050 | 07/15/22 14:26 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 272 | mg/L | 5.0 | 07/05/22 11:49 | |
| SM 2540C-2011 | Total Dissolved Solids | 5060 | mg/L | 500 | 07/01/22 10:53 | |
| SM 4500-S2D-2011 | Sulfide | 12.7 | mg/L | 2.5 | 07/01/22 04:00 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 203 | mg/L | 50.0 | 07/01/22 11:04 | |
| SM 4500-Cl-E-2011 | Chloride | 2870 | mg/L | 500 | 07/05/22 14:47 | |
| 92612546003 | PT-03 | | | | | |
| EPA 6010D | Calcium | 30.1 | mg/L | 0.50 | 07/07/22 11:42 | |
| EPA 6010D | Iron | 0.24 | mg/L | 0.050 | 07/07/22 11:42 | |
| EPA 6010D | Magnesium | 80.0 | mg/L | 0.50 | 07/07/22 11:42 | |
| EPA 6010D | Potassium | 69.4 | mg/L | 2.5 | 07/07/22 11:42 | |
| EPA 6010D | Sodium | 889 | mg/L | 10.0 | 07/07/22 12:03 | |
| EPA 6010D | Calcium, Dissolved | 29.2 | mg/L | 0.50 | 07/07/22 14:21 | |
| EPA 6010D | Iron, Dissolved | 0.044J | mg/L | 0.050 | 07/07/22 14:21 | |
| EPA 6010D | Magnesium, Dissolved | 80.9 | mg/L | 0.50 | 07/07/22 14:21 | |
| EPA 6010D | Potassium, Dissolved | 64.2 | mg/L | 2.5 | 07/07/22 14:21 | |
| EPA 6010D | Sodium, Dissolved | 1110 | mg/L | 20.0 | 07/07/22 14:47 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--|--------|-------|--------------|----------------|------------|
| 92612546003 | PT-03 | | | | | |
| EPA 6020B | Arsenic | 0.0011 | mg/L | 0.00050 | 07/15/22 16:08 | |
| EPA 6020B | Arsenic, Dissolved | 0.0012 | mg/L | 0.00050 | 07/15/22 14:52 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO ₃ | 197 | mg/L | 5.0 | 07/05/22 11:58 | |
| SM 2540C-2011 | Total Dissolved Solids | 3260 | mg/L | 312 | 07/01/22 10:53 | |
| SM 4500-S2D-2011 | Sulfide | 8.2 | mg/L | 2.5 | 07/01/22 04:00 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 142 | mg/L | 20.0 | 07/01/22 11:20 | M1 |
| SM 4500-Cl-E-2011 | Chloride | 1790 | mg/L | 500 | 07/05/22 14:48 | |
| 92612546004 | PT-04D | | | | | |
| EPA 6010D | Calcium | 193 | mg/L | 0.50 | 07/07/22 11:44 | |
| EPA 6010D | Iron | 0.12 | mg/L | 0.050 | 07/07/22 11:44 | |
| EPA 6010D | Magnesium | 427 | mg/L | 0.50 | 07/07/22 11:44 | |
| EPA 6010D | Potassium | 183 | mg/L | 5.0 | 07/07/22 12:46 | |
| EPA 6010D | Sodium | 3360 | mg/L | 25.0 | 07/07/22 12:05 | |
| EPA 6010D | Calcium, Dissolved | 189 | mg/L | 0.50 | 07/07/22 14:22 | |
| EPA 6010D | Iron, Dissolved | 0.084 | mg/L | 0.050 | 07/07/22 14:22 | |
| EPA 6010D | Magnesium, Dissolved | 428 | mg/L | 0.50 | 07/07/22 14:22 | |
| EPA 6010D | Potassium, Dissolved | 175 | mg/L | 2.5 | 07/07/22 14:22 | |
| EPA 6010D | Sodium, Dissolved | 3600 | mg/L | 50.0 | 07/07/22 15:02 | |
| EPA 6020B | Arsenic | 0.0027 | mg/L | 0.00050 | 07/15/22 16:12 | |
| EPA 6020B | Arsenic, Dissolved | 0.0036 | mg/L | 0.0025 | 07/18/22 11:17 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO ₃ | 451 | mg/L | 5.0 | 07/05/22 13:38 | |
| SM 2540C-2011 | Total Dissolved Solids | 13700 | mg/L | 2500 | 07/01/22 10:53 | |
| SM 4500-S2D-2011 | Sulfide | 18.4 | mg/L | 2.5 | 07/01/22 04:00 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 465 | mg/L | 100 | 07/01/22 08:20 | |
| SM 4500-Cl-E-2011 | Chloride | 6670 | mg/L | 500 | 07/05/22 14:49 | |
| 92612546005 | DR-01 | | | | | |
| EPA 6010D | Calcium | 84.1 | mg/L | 0.50 | 07/07/22 11:49 | |
| EPA 6010D | Iron | 0.12 | mg/L | 0.050 | 07/07/22 11:49 | |
| EPA 6010D | Magnesium | 184 | mg/L | 0.50 | 07/07/22 11:49 | |
| EPA 6010D | Potassium | 97.9 | mg/L | 2.5 | 07/07/22 11:49 | |
| EPA 6010D | Sodium | 1800 | mg/L | 25.0 | 07/07/22 12:07 | |
| EPA 6010D | Calcium, Dissolved | 79.5 | mg/L | 0.50 | 07/07/22 14:24 | |
| EPA 6010D | Iron, Dissolved | 0.069 | mg/L | 0.050 | 07/07/22 14:24 | |
| EPA 6010D | Magnesium, Dissolved | 178 | mg/L | 0.50 | 07/07/22 14:24 | |
| EPA 6010D | Potassium, Dissolved | 88.0 | mg/L | 2.5 | 07/07/22 14:24 | |
| EPA 6010D | Sodium, Dissolved | 2070 | mg/L | 20.0 | 07/07/22 14:54 | |
| EPA 6020B | Arsenic | 0.077 | mg/L | 0.00050 | 07/15/22 16:15 | |
| EPA 6020B | Arsenic, Dissolved | 0.083 | mg/L | 0.00050 | 07/15/22 14:59 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO ₃ | 271 | mg/L | 5.0 | 07/05/22 12:14 | |
| SM 2540C-2011 | Total Dissolved Solids | 6280 | mg/L | 500 | 07/01/22 10:53 | |
| SM 4500-S2D-2011 | Sulfide | 17.4 | mg/L | 2.5 | 07/01/22 04:01 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 238 | mg/L | 100 | 07/01/22 08:36 | |
| SM 4500-Cl-E-2011 | Chloride | 2470 | mg/L | 500 | 07/05/22 14:50 | |
| 92612546006 | DR-02 | | | | | |
| EPA 6010D | Calcium | 107 | mg/L | 0.50 | 07/07/22 11:51 | |
| EPA 6010D | Iron | 0.21 | mg/L | 0.050 | 07/07/22 11:51 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|----------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92612546006 | DR-02 | | | | | |
| EPA 6010D | Magnesium | 253 | mg/L | 0.50 | 07/07/22 11:51 | |
| EPA 6010D | Potassium | 136 | mg/L | 2.5 | 07/07/22 11:51 | |
| EPA 6010D | Sodium | 2360 | mg/L | 25.0 | 07/07/22 12:49 | |
| EPA 6010D | Calcium, Dissolved | 106 | mg/L | 0.50 | 07/07/22 14:26 | |
| EPA 6010D | Iron, Dissolved | 0.13 | mg/L | 0.050 | 07/07/22 14:26 | |
| EPA 6010D | Magnesium, Dissolved | 258 | mg/L | 0.50 | 07/07/22 14:26 | |
| EPA 6010D | Potassium, Dissolved | 126 | mg/L | 2.5 | 07/07/22 14:26 | |
| EPA 6010D | Sodium, Dissolved | 2930 | mg/L | 20.0 | 07/07/22 14:56 | |
| EPA 6020B | Arsenic | 0.0078 | mg/L | 0.00050 | 07/15/22 16:19 | |
| EPA 6020B | Arsenic, Dissolved | 0.0075 | mg/L | 0.00050 | 07/15/22 15:03 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 354 | mg/L | 5.0 | 07/05/22 12:23 | |
| SM 2540C-2011 | Total Dissolved Solids | 8220 | mg/L | 625 | 07/01/22 10:54 | |
| SM 4500-S2D-2011 | Sulfide | 23.0 | mg/L | 2.5 | 07/01/22 04:01 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 299 | mg/L | 100 | 07/01/22 08:51 | |
| SM 4500-Cl-E-2011 | Chloride | 4540 | mg/L | 500 | 07/05/22 14:51 | |
| 92612546007 | MCM-06 | | | | | |
| EPA 6010D | Calcium | 73.5 | mg/L | 0.50 | 07/07/22 11:53 | |
| EPA 6010D | Iron | 0.11 | mg/L | 0.050 | 07/07/22 11:53 | |
| EPA 6010D | Magnesium | 154 | mg/L | 0.50 | 07/07/22 11:53 | |
| EPA 6010D | Potassium | 94.0 | mg/L | 2.5 | 07/07/22 11:53 | |
| EPA 6010D | Sodium | 1720 | mg/L | 25.0 | 07/07/22 12:51 | |
| EPA 6010D | Calcium, Dissolved | 69.6 | mg/L | 0.50 | 07/07/22 14:27 | |
| EPA 6010D | Magnesium, Dissolved | 151 | mg/L | 0.50 | 07/07/22 14:27 | |
| EPA 6010D | Potassium, Dissolved | 83.0 | mg/L | 2.5 | 07/07/22 14:27 | |
| EPA 6010D | Sodium, Dissolved | 2160 | mg/L | 20.0 | 07/07/22 14:57 | |
| EPA 6020B | Arsenic | 0.17 | mg/L | 0.00050 | 07/15/22 16:23 | |
| EPA 6020B | Arsenic, Dissolved | 0.20 | mg/L | 0.00050 | 07/15/22 15:06 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 286 | mg/L | 5.0 | 07/05/22 12:34 | |
| SM 2540C-2011 | Total Dissolved Solids | 6140 | mg/L | 500 | 07/01/22 10:54 | |
| SM 4500-S2D-2011 | Sulfide | 23.3 | mg/L | 2.5 | 07/01/22 04:01 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 213 | mg/L | 100 | 07/01/22 09:07 | |
| SM 4500-Cl-E-2011 | Chloride | 3520 | mg/L | 500 | 07/05/22 14:52 | |
| 92612546008 | DPZ-02 | | | | | |
| EPA 6010D | Calcium | 225 | mg/L | 0.50 | 07/07/22 11:54 | |
| EPA 6010D | Iron | 0.022J | mg/L | 0.050 | 07/07/22 11:54 | |
| EPA 6010D | Magnesium | 471 | mg/L | 0.50 | 07/07/22 11:54 | |
| EPA 6010D | Potassium | 184 | mg/L | 5.0 | 07/07/22 12:48 | |
| EPA 6010D | Sodium | 3610 | mg/L | 25.0 | 07/07/22 12:53 | |
| EPA 6010D | Calcium, Dissolved | 233 | mg/L | 0.50 | 07/07/22 14:29 | |
| EPA 6010D | Magnesium, Dissolved | 503 | mg/L | 0.50 | 07/07/22 14:29 | |
| EPA 6010D | Potassium, Dissolved | 182 | mg/L | 5.0 | 07/11/22 15:35 | |
| EPA 6010D | Sodium, Dissolved | 4370 | mg/L | 50.0 | 07/07/22 15:04 | |
| EPA 6020B | Arsenic | 0.025 | mg/L | 0.0025 | 07/18/22 11:25 | |
| EPA 6020B | Arsenic, Dissolved | 0.032 | mg/L | 0.0025 | 07/18/22 11:21 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 394 | mg/L | 5.0 | 07/05/22 12:44 | |
| SM 2540C-2011 | Total Dissolved Solids | 15400 | mg/L | 2500 | 07/01/22 10:54 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--|----------|-------|--------------|----------------|------------|
| 92612546008 | DPZ-02 | | | | | |
| SM 4500-S2D-2011 | Sulfide | 24.3 | mg/L | 2.5 | 07/01/22 04:02 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 553 | mg/L | 100 | 07/01/22 12:07 | |
| SM 4500-Cl-E-2011 | Chloride | 9640 | mg/L | 500 | 07/05/22 14:53 | |
| 92612546009 | DUP-1 | | | | | |
| EPA 6010D | Calcium | 32.2 | mg/L | 0.50 | 07/07/22 11:56 | |
| EPA 6010D | Iron | 0.25 | mg/L | 0.050 | 07/07/22 11:56 | |
| EPA 6010D | Magnesium | 83.5 | mg/L | 0.50 | 07/07/22 11:56 | |
| EPA 6010D | Potassium | 72.7 | mg/L | 2.5 | 07/07/22 11:56 | |
| EPA 6010D | Sodium | 926 | mg/L | 10.0 | 07/07/22 12:54 | |
| EPA 6010D | Calcium, Dissolved | 29.3 | mg/L | 0.50 | 07/07/22 14:34 | |
| EPA 6010D | Iron, Dissolved | 0.046J | mg/L | 0.050 | 07/07/22 14:34 | |
| EPA 6010D | Magnesium, Dissolved | 80.4 | mg/L | 0.50 | 07/07/22 14:34 | |
| EPA 6010D | Potassium, Dissolved | 63.6 | mg/L | 2.5 | 07/07/22 14:34 | |
| EPA 6010D | Sodium, Dissolved | 1070 | mg/L | 20.0 | 07/07/22 15:01 | |
| EPA 6020B | Arsenic | 0.0011 | mg/L | 0.00050 | 07/15/22 16:30 | |
| EPA 6020B | Arsenic, Dissolved | 0.0014 | mg/L | 0.00050 | 07/15/22 15:14 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO ₃ | 192 | mg/L | 5.0 | 07/05/22 13:05 | |
| SM 2540C-2011 | Total Dissolved Solids | 3340 | mg/L | 357 | 07/01/22 10:54 | |
| SM 4500-S2D-2011 | Sulfide | 8.2 | mg/L | 2.5 | 07/01/22 04:02 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 142 | mg/L | 20.0 | 07/01/22 12:22 | |
| SM 4500-Cl-E-2011 | Chloride | 1390 | mg/L | 500 | 07/05/22 14:54 | |
| 92612546010 | FB-1 | | | | | |
| EPA 6010D | Potassium, Dissolved | 0.34J | mg/L | 2.5 | 07/07/22 14:36 | |
| EPA 6010D | Sodium, Dissolved | 0.70J | mg/L | 1.0 | 07/07/22 14:36 | |
| EPA 6020B | Arsenic | 0.00013J | mg/L | 0.00050 | 07/15/22 16:34 | |
| EPA 6020B | Arsenic, Dissolved | 0.00010J | mg/L | 0.00050 | 07/15/22 15:17 | |
| SM 4500-Cl-E-2011 | Chloride | 0.86J | mg/L | 1.0 | 07/05/22 14:54 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: PT-01 | | Lab ID: 92612546001 | | Collected: 06/28/22 15:55 | | Received: 06/30/22 11:05 | | Matrix: Water | |
|--------------------------------------|--------------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 81.1 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:32 | 7440-70-2 | |
| Iron | 0.22 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:32 | 7439-89-6 | |
| Magnesium | 179 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:32 | 7439-95-4 | |
| Potassium | 101 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:32 | 7440-09-7 | |
| Sodium | 1800 | mg/L | 25.0 | 5.4 | 25 | 07/06/22 06:48 | 07/07/22 12:34 | 7440-23-5 | P6 |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 75.9 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 13:49 | 7440-70-2 | |
| Iron, Dissolved | 0.062 | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 13:49 | 7439-89-6 | |
| Magnesium, Dissolved | 174 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 13:49 | 7439-95-4 | P6 |
| Potassium, Dissolved | 89.3 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 13:49 | 7440-09-7 | P6 |
| Sodium, Dissolved | 2100 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 14:37 | 7440-23-5 | P6 |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.026 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 15:39 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.028 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 14:22 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 290 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 11:39 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 6820 | mg/L | 500 | 500 | 1 | | 07/01/22 10:53 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 18.7 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 03:59 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 269 | mg/L | 50.0 | 25.0 | 50 | | 07/01/22 10:48 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 3950 | mg/L | 500 | 250 | 500 | | 07/05/22 14:44 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: PT-02 | | Lab ID: 92612546002 | | Collected: 06/28/22 10:00 | | Received: 06/30/22 11:05 | | Matrix: Water | |
|--------------------------------------|---------------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 56.7 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:41 | 7440-70-2 | |
| Iron | 0.22 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:41 | 7439-89-6 | |
| Magnesium | 124 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:41 | 7439-95-4 | |
| Potassium | 81.1 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:41 | 7440-09-7 | |
| Sodium | 1340 | mg/L | 10.0 | 2.2 | 10 | 07/06/22 06:48 | 07/07/22 12:01 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 54.9 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:19 | 7440-70-2 | |
| Iron, Dissolved | 0.051 | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:19 | 7439-89-6 | |
| Magnesium, Dissolved | 125 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:19 | 7439-95-4 | |
| Potassium, Dissolved | 75.6 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:19 | 7440-09-7 | |
| Sodium, Dissolved | 1460 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 14:46 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.0019 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 15:42 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.0018 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 14:26 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 272 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 11:49 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 5060 | mg/L | 500 | 500 | 1 | | 07/01/22 10:53 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 12.7 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 203 | mg/L | 50.0 | 25.0 | 50 | | 07/01/22 11:04 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 2870 | mg/L | 500 | 250 | 500 | | 07/05/22 14:47 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: PT-03 | | Lab ID: 92612546003 | | Collected: 06/28/22 14:50 | | Received: 06/30/22 11:05 | | Matrix: Water | |
|--------------------------------------|---------------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 30.1 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:42 | 7440-70-2 | |
| Iron | 0.24 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:42 | 7439-89-6 | |
| Magnesium | 80.0 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:42 | 7439-95-4 | |
| Potassium | 69.4 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:42 | 7440-09-7 | |
| Sodium | 889 | mg/L | 10.0 | 2.2 | 10 | 07/06/22 06:48 | 07/07/22 12:03 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 29.2 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:21 | 7440-70-2 | |
| Iron, Dissolved | 0.044J | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:21 | 7439-89-6 | |
| Magnesium, Dissolved | 80.9 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:21 | 7439-95-4 | |
| Potassium, Dissolved | 64.2 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:21 | 7440-09-7 | |
| Sodium, Dissolved | 1110 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 14:47 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.0011 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:08 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.0012 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 14:52 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 197 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 11:58 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 3260 | mg/L | 312 | 312 | 1 | | 07/01/22 10:53 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 8.2 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 142 | mg/L | 20.0 | 10.0 | 20 | | 07/01/22 11:20 | 14808-79-8 | M1 |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 1790 | mg/L | 500 | 250 | 500 | | 07/05/22 14:48 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: PT-04D | | Lab ID: 92612546004 | | Collected: 06/28/22 14:20 | Received: 06/30/22 11:05 | Matrix: Water | | | |
|--------------------------------------|---------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 193 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:44 | 7440-70-2 | |
| Iron | 0.12 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:44 | 7439-89-6 | |
| Magnesium | 427 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:44 | 7439-95-4 | |
| Potassium | 183 | mg/L | 5.0 | 0.43 | 2 | 07/06/22 06:48 | 07/07/22 12:46 | 7440-09-7 | |
| Sodium | 3360 | mg/L | 25.0 | 5.4 | 25 | 07/06/22 06:48 | 07/07/22 12:05 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 189 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:22 | 7440-70-2 | |
| Iron, Dissolved | 0.084 | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:22 | 7439-89-6 | |
| Magnesium, Dissolved | 428 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:22 | 7439-95-4 | |
| Potassium, Dissolved | 175 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:22 | 7440-09-7 | |
| Sodium, Dissolved | 3600 | mg/L | 50.0 | 10.9 | 50 | 07/07/22 05:20 | 07/07/22 15:02 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.0027 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:12 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.0036 | mg/L | 0.0025 | 0.00041 | 5 | 07/07/22 05:39 | 07/18/22 11:17 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 451 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 13:38 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 13700 | mg/L | 2500 | 2500 | 1 | | 07/01/22 10:53 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 18.4 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 465 | mg/L | 100 | 50.0 | 100 | | 07/01/22 08:20 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 6670 | mg/L | 500 | 250 | 500 | | 07/05/22 14:49 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: DR-01 | | Lab ID: 92612546005 | | Collected: 06/28/22 14:52 | | Received: 06/30/22 11:05 | | Matrix: Water | |
|--------------------------------------|--------------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 84.1 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:49 | 7440-70-2 | |
| Iron | 0.12 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:49 | 7439-89-6 | |
| Magnesium | 184 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:49 | 7439-95-4 | |
| Potassium | 97.9 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:49 | 7440-09-7 | |
| Sodium | 1800 | mg/L | 25.0 | 5.4 | 25 | 07/06/22 06:48 | 07/07/22 12:07 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 79.5 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:24 | 7440-70-2 | |
| Iron, Dissolved | 0.069 | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:24 | 7439-89-6 | |
| Magnesium, Dissolved | 178 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:24 | 7439-95-4 | |
| Potassium, Dissolved | 88.0 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:24 | 7440-09-7 | |
| Sodium, Dissolved | 2070 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 14:54 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.077 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:15 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.083 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 14:59 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 271 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 12:14 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 6280 | mg/L | 500 | 500 | 1 | | 07/01/22 10:53 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 17.4 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:01 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 238 | mg/L | 100 | 50.0 | 100 | | 07/01/22 08:36 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 2470 | mg/L | 500 | 250 | 500 | | 07/05/22 14:50 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: DR-02 | | Lab ID: 92612546006 | | Collected: 06/28/22 16:05 | | Received: 06/30/22 11:05 | | Matrix: Water | |
|--------------------------------------|---------------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 107 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:51 | 7440-70-2 | |
| Iron | 0.21 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:51 | 7439-89-6 | |
| Magnesium | 253 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:51 | 7439-95-4 | |
| Potassium | 136 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:51 | 7440-09-7 | |
| Sodium | 2360 | mg/L | 25.0 | 5.4 | 25 | 07/06/22 06:48 | 07/07/22 12:49 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 106 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:26 | 7440-70-2 | |
| Iron, Dissolved | 0.13 | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:26 | 7439-89-6 | |
| Magnesium, Dissolved | 258 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:26 | 7439-95-4 | |
| Potassium, Dissolved | 126 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:26 | 7440-09-7 | |
| Sodium, Dissolved | 2930 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 14:56 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.0078 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:19 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.0075 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 15:03 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 354 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 12:23 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 8220 | mg/L | 625 | 625 | 1 | | 07/01/22 10:54 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 23.0 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:01 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 299 | mg/L | 100 | 50.0 | 100 | | 07/01/22 08:51 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 4540 | mg/L | 500 | 250 | 500 | | 07/05/22 14:51 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: MCM-06 | | Lab ID: 92612546007 | | Collected: 06/28/22 16:00 | | Received: 06/30/22 11:05 | | Matrix: Water | |
|--------------------------------------|---------|--|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 73.5 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:53 | 7440-70-2 | |
| Iron | 0.11 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:53 | 7439-89-6 | |
| Magnesium | 154 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:53 | 7439-95-4 | |
| Potassium | 94.0 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:53 | 7440-09-7 | |
| Sodium | 1720 | mg/L | 25.0 | 5.4 | 25 | 07/06/22 06:48 | 07/07/22 12:51 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 69.6 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:27 | 7440-70-2 | |
| Iron, Dissolved | ND | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:27 | 7439-89-6 | |
| Magnesium, Dissolved | 151 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:27 | 7439-95-4 | |
| Potassium, Dissolved | 83.0 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:27 | 7440-09-7 | |
| Sodium, Dissolved | 2160 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 14:57 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.17 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:23 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.20 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 15:06 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 286 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 12:34 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 6140 | mg/L | 500 | 500 | 1 | | 07/01/22 10:54 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 23.3 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:01 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 213 | mg/L | 100 | 50.0 | 100 | | 07/01/22 09:07 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 3520 | mg/L | 500 | 250 | 500 | | 07/05/22 14:52 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: DPZ-02 | | Lab ID: 92612546008 | | Collected: 06/28/22 11:45 | Received: 06/30/22 11:05 | Matrix: Water | | | |
|--------------------------------------|---------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 225 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:54 | 7440-70-2 | |
| Iron | 0.022J | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:54 | 7439-89-6 | |
| Magnesium | 471 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:54 | 7439-95-4 | |
| Potassium | 184 | mg/L | 5.0 | 0.43 | 2 | 07/06/22 06:48 | 07/07/22 12:48 | 7440-09-7 | |
| Sodium | 3610 | mg/L | 25.0 | 5.4 | 25 | 07/06/22 06:48 | 07/07/22 12:53 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 233 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:29 | 7440-70-2 | |
| Iron, Dissolved | ND | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:29 | 7439-89-6 | |
| Magnesium, Dissolved | 503 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:29 | 7439-95-4 | |
| Potassium, Dissolved | 182 | mg/L | 5.0 | 0.43 | 2 | 07/07/22 05:20 | 07/11/22 15:35 | 7440-09-7 | |
| Sodium, Dissolved | 4370 | mg/L | 50.0 | 10.9 | 50 | 07/07/22 05:20 | 07/07/22 15:04 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.025 | mg/L | 0.0025 | 0.00041 | 5 | 07/06/22 06:20 | 07/18/22 11:25 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.032 | mg/L | 0.0025 | 0.00041 | 5 | 07/07/22 05:39 | 07/18/22 11:21 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 394 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 12:44 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 15400 | mg/L | 2500 | 2500 | 1 | | 07/01/22 10:54 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 24.3 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:02 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 553 | mg/L | 100 | 50.0 | 100 | | 07/01/22 12:07 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 9640 | mg/L | 500 | 250 | 500 | | 07/05/22 14:53 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: DUP-1 | | Lab ID: 92612546009 | | Collected: 06/28/22 00:00 | Received: 06/30/22 11:05 | Matrix: Water | | | |
|--------------------------------------|---------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 32.2 | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 11:56 | 7440-70-2 | |
| Iron | 0.25 | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 11:56 | 7439-89-6 | |
| Magnesium | 83.5 | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 11:56 | 7439-95-4 | |
| Potassium | 72.7 | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 11:56 | 7440-09-7 | |
| Sodium | 926 | mg/L | 10.0 | 2.2 | 10 | 07/06/22 06:48 | 07/07/22 12:54 | 7440-23-5 | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium, Dissolved | 29.3 | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:34 | 7440-70-2 | |
| Iron, Dissolved | 0.046J | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:34 | 7439-89-6 | |
| Magnesium, Dissolved | 80.4 | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:34 | 7439-95-4 | |
| Potassium, Dissolved | 63.6 | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:34 | 7440-09-7 | |
| Sodium, Dissolved | 1070 | mg/L | 20.0 | 4.4 | 20 | 07/07/22 05:20 | 07/07/22 15:01 | 7440-23-5 | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic | 0.0011 | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:30 | 7440-38-2 | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | |
| Arsenic, Dissolved | 0.0014 | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 15:14 | 7440-38-2 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity, Total as CaCO3 | 192 | mg/L | 5.0 | 5.0 | 1 | | 07/05/22 13:05 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 3340 | mg/L | 357 | 357 | 1 | | 07/01/22 10:54 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 8.2 | mg/L | 2.5 | 1.2 | 25 | | 07/01/22 04:02 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 142 | mg/L | 20.0 | 10.0 | 20 | | 07/01/22 12:22 | 14808-79-8 | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 1390 | mg/L | 500 | 250 | 500 | | 07/05/22 14:54 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| Sample: FB-1 | | Lab ID: 92612546010 | | Collected: 06/28/22 10:40 | Received: 06/30/22 11:05 | Matrix: Water | | | | |
|--------------------------------------|-----------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual | |
| 6010D MET ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium | ND | mg/L | 0.50 | 0.097 | 1 | 07/06/22 06:48 | 07/07/22 12:14 | 7440-70-2 | | |
| Iron | ND | mg/L | 0.050 | 0.022 | 1 | 07/06/22 06:48 | 07/07/22 12:14 | 7439-89-6 | | |
| Magnesium | ND | mg/L | 0.50 | 0.029 | 1 | 07/06/22 06:48 | 07/07/22 12:14 | 7439-95-4 | | |
| Potassium | ND | mg/L | 2.5 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 12:14 | 7440-09-7 | | |
| Sodium | ND | mg/L | 1.0 | 0.22 | 1 | 07/06/22 06:48 | 07/07/22 12:14 | 7440-23-5 | | |
| 6010D MET ICP, Lab Filtered | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium, Dissolved | ND | mg/L | 0.50 | 0.097 | 1 | 07/07/22 05:20 | 07/07/22 14:36 | 7440-70-2 | | |
| Iron, Dissolved | ND | mg/L | 0.050 | 0.022 | 1 | 07/07/22 05:20 | 07/07/22 14:36 | 7439-89-6 | | |
| Magnesium, Dissolved | ND | mg/L | 0.50 | 0.029 | 1 | 07/07/22 05:20 | 07/07/22 14:36 | 7439-95-4 | | |
| Potassium, Dissolved | 0.34J | mg/L | 2.5 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:36 | 7440-09-7 | | |
| Sodium, Dissolved | 0.70J | mg/L | 1.0 | 0.22 | 1 | 07/07/22 05:20 | 07/07/22 14:36 | 7440-23-5 | | |
| 6020B MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic | 0.00013J | mg/L | 0.00050 | 0.000083 | 1 | 07/06/22 06:20 | 07/15/22 16:34 | 7440-38-2 | | |
| 6020B MET ICPMS, Lab Filtered | | Analytical Method: EPA 6020B Preparation Method: EPA 3020A Pace Analytical Services - Minneapolis | | | | | | | | |
| Arsenic, Dissolved | 0.00010J | mg/L | 0.00050 | 0.000083 | 1 | 07/07/22 05:39 | 07/15/22 15:17 | 7440-38-2 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 07/02/22 20:53 | | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 07/04/22 11:06 | | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 07/01/22 04:03 | 18496-25-8 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 07/01/22 04:08 | 14808-79-8 | | |
| 4500 Chloride | | Analytical Method: SM 4500-Cl-E-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 0.86J | mg/L | 1.0 | 0.50 | 1 | | 07/05/22 14:54 | 16887-00-6 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 825861 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D Water |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 4374763 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 0.50 | 0.097 | 07/07/22 11:29 | |
| Iron | mg/L | ND | 0.050 | 0.022 | 07/07/22 11:29 | |
| Magnesium | mg/L | ND | 0.50 | 0.029 | 07/07/22 11:29 | |
| Potassium | mg/L | ND | 2.5 | 0.22 | 07/07/22 11:29 | |
| Sodium | mg/L | ND | 1.0 | 0.22 | 07/07/22 11:29 | |

LABORATORY CONTROL SAMPLE: 4374764

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 20 | 19.3 | 96 | 80-120 | |
| Iron | mg/L | 20 | 19.7 | 98 | 80-120 | |
| Magnesium | mg/L | 20 | 19.5 | 98 | 80-120 | |
| Potassium | mg/L | 20 | 19.6 | 98 | 80-120 | |
| Sodium | mg/L | 20 | 19.2 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4374765 4374766

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 92612546001 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Calcium | mg/L | 81.1 | 20 | 20 | 97.0 | 99.3 | 79 | 91 | 75-125 | 2 | 20 |
| Iron | mg/L | 0.22 | 20 | 20 | 19.6 | 19.9 | 97 | 99 | 75-125 | 2 | 20 |
| Magnesium | mg/L | 179 | 20 | 20 | 196 | 200 | 84 | 101 | 75-125 | 2 | 20 |
| Potassium | mg/L | 101 | 20 | 20 | 122 | 125 | 103 | 119 | 75-125 | 3 | 20 |
| Sodium | mg/L | 1800 | 20 | 20 | 1850 | 1850 | 221 | 223 | 75-125 | 0 | 20 P6 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 826173 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D Water Dissolved |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 4376218 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium, Dissolved | mg/L | ND | 0.50 | 0.097 | 07/07/22 13:44 | |
| Iron, Dissolved | mg/L | ND | 0.050 | 0.022 | 07/07/22 13:44 | |
| Magnesium, Dissolved | mg/L | ND | 0.50 | 0.029 | 07/07/22 13:44 | |
| Potassium, Dissolved | mg/L | ND | 2.5 | 0.22 | 07/07/22 13:44 | |
| Sodium, Dissolved | mg/L | ND | 1.0 | 0.22 | 07/07/22 13:44 | |

LABORATORY CONTROL SAMPLE: 4376219

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Calcium, Dissolved | mg/L | 20 | 17.8 | 89 | 80-120 | |
| Iron, Dissolved | mg/L | 20 | 18.5 | 92 | 80-120 | |
| Magnesium, Dissolved | mg/L | 20 | 18.0 | 90 | 80-120 | |
| Potassium, Dissolved | mg/L | 20 | 18.5 | 93 | 80-120 | |
| Sodium, Dissolved | mg/L | 20 | 18.1 | 90 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4376220 4376221

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 92612546001 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Calcium, Dissolved | mg/L | 75.9 | 20 | 20 | 98.9 | 97.5 | 115 | 108 | 75-125 | 1 | 20 |
| Iron, Dissolved | mg/L | 0.062 | 20 | 20 | 19.2 | 19.5 | 96 | 97 | 75-125 | 1 | 20 |
| Magnesium, Dissolved | mg/L | 174 | 20 | 20 | 205 | 202 | 158 | 139 | 75-125 | 2 | 20 P6 |
| Potassium, Dissolved | mg/L | 89.3 | 20 | 20 | 118 | 116 | 144 | 134 | 75-125 | 2 | 20 P6 |
| Sodium, Dissolved | mg/L | 2100 | 20 | 20 | 2290 | 2310 | 927 | 1060 | 75-125 | 1 | 20 P6 |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 825866 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3020A | Analysis Description: | 6020B Water UPD5 |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 4374788 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic | mg/L | ND | 0.00050 | 0.000083 | 07/15/22 15:32 | |

LABORATORY CONTROL SAMPLE: 4374789

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4374790 4374791

| Parameter | Units | 92612546002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Arsenic | mg/L | 0.0019 | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 105 | 75-125 | 4 | 20 | |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 826179 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3020A | Analysis Description: | 6020B Water Dissolved UPD5 |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 4376245 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic, Dissolved | mg/L | ND | 0.00050 | 0.000083 | 07/15/22 14:15 | |

LABORATORY CONTROL SAMPLE: 4376246

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic, Dissolved | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4376247 4376248

| Parameter | Units | 92612546002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Arsenic, Dissolved | mg/L | 0.0018 | 0.1 | 0.1 | 0.10 | 0.11 | 101 | 104 | 75-125 | 3 | 20 | |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

QC Batch: 708484

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92612546001, 92612546002

METHOD BLANK: 3695062

Matrix: Water

Associated Lab Samples: 92612546001, 92612546002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 07/02/22 16:05 | |

LABORATORY CONTROL SAMPLE: 3695063

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.3 | 105 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3695064

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.8 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3695065 3695066

| Parameter | Units | 92612726001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | | | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 52.7 | 52.1 | 105 | 104 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3695067 3695068

| Parameter | Units | 92612726011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | | | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 53.4 | 53.0 | 105 | 104 | 80-120 | 1 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

QC Batch: 708485 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 3695069 Matrix: Water
Associated Lab Samples: 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 07/02/22 19:14 | |

LABORATORY CONTROL SAMPLE: 3695070

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.6 | 101 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3695071

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.8 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3695072 3695073

| Parameter | Units | 3695072 | | 3695073 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 92612546003 Result: 197 | 50 | 50 | 255 | 256 | 117 | 119 | 80-120 | 0 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3695074 3695075

| Parameter | Units | 3695074 | | 3695075 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|---------------------------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|-------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 92612809002 Result: 128000 ug/L | 50 | 50 | 138 | 137 | 20 | 17 | 80-120 | 1 | 25 M1 |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|---------------|-----------------------|--------------------------------------|
| QC Batch: | 708223 | Analysis Method: | SM 2540C-2011 |
| QC Batch Method: | SM 2540C-2011 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009

METHOD BLANK: 3693528 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 07/01/22 10:52 | |

LABORATORY CONTROL SAMPLE: 3693529

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 246 | 98 | 90-110 | |

SAMPLE DUPLICATE: 3693530

| Parameter | Units | 92611876001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 81.0 | 81.0 | 0 | 25 | |

SAMPLE DUPLICATE: 3693531

| Parameter | Units | 92612546007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 6140 | 6080 | 1 | 25 | |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | |
|--------------------------------|--|
| QC Batch: 708545 | Analysis Method: SM 2540C-2011 |
| QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92612546010

METHOD BLANK: 3695257 Matrix: Water
Associated Lab Samples: 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 07/04/22 11:06 | |

LABORATORY CONTROL SAMPLE: 3695258

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 258 | 103 | 90-110 | |

SAMPLE DUPLICATE: 3695259

| Parameter | Units | 92612546010 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | ND | | 25 | |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|------------------|-----------------------|--------------------------------------|
| QC Batch: | 708171 | Analysis Method: | SM 4500-S2D-2011 |
| QC Batch Method: | SM 4500-S2D-2011 | Analysis Description: | 4500S2D Sulfide Water |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 3693375 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.050 | 07/01/22 03:55 | |

LABORATORY CONTROL SAMPLE: 3693376

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.51 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3693377 3693378

| Parameter | Units | 92612399003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.52 | 0.54 | 102 | 105 | 80-120 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3693379 3693380

| Parameter | Units | 92612399002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.51 | 0.52 | 99 | 102 | 80-120 | 3 | 10 | |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 708118 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 3693181 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Sulfate | mg/L | ND | 1.0 | 0.50 | 06/30/22 20:58 | |

LABORATORY CONTROL SAMPLE: 3693182

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 50 | 52.0 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3693183 3693184

| Parameter | Units | 92610803001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Sulfate | mg/L | 175 | 50 | 50 | 213 | 211 | 77 | 72 | 90-110 | 1 | 10 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3693185 3693186

| Parameter | Units | 92612546003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Sulfate | mg/L | 142 | 50 | 50 | 177 | 178 | 71 | 72 | 90-110 | 0 | 10 | M1 |

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QUALITY CONTROL DATA

Project: MCMANUS JUNE 2022
Pace Project No.: 92612546

QC Batch: 708577 Analysis Method: SM 4500-Cl-E-2011
QC Batch Method: SM 4500-Cl-E-2011 Analysis Description: 4500 Chloride
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

METHOD BLANK: 3695347 Matrix: Water
Associated Lab Samples: 92612546001, 92612546002, 92612546003, 92612546004, 92612546005, 92612546006, 92612546007, 92612546008, 92612546009, 92612546010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.50 | 07/05/22 13:55 | |

LABORATORY CONTROL SAMPLE: 3695348

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 20 | 20.6 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3695349 3695350

| Parameter | Units | 92612051002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | | | | | | | | | | |
| Chloride | mg/L | 99.2 | 10 | 10 | 111 | 109 | 114 | 93 | 90-110 | 2 | 10 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3695351 3695352

| Parameter | Units | 92612054001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | | | | | | | | | | |
| Chloride | mg/L | 56.0 | 10 | 10 | 67.5 | 66.2 | 115 | 102 | 90-110 | 2 | 10 | M1 |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 92612546001 | PT-01 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546002 | PT-02 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546003 | PT-03 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546004 | PT-04D | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546005 | DR-01 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546006 | DR-02 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546007 | MCM-06 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546008 | DPZ-02 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546009 | DUP-1 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546010 | FB-1 | EPA 3010A | 825861 | EPA 6010D | 826326 |
| 92612546001 | PT-01 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546002 | PT-02 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546003 | PT-03 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546004 | PT-04D | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546005 | DR-01 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546006 | DR-02 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546007 | MCM-06 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546008 | DPZ-02 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546009 | DUP-1 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546010 | FB-1 | EPA 3010A | 826173 | EPA 6010D | 826585 |
| 92612546001 | PT-01 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546002 | PT-02 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546003 | PT-03 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546004 | PT-04D | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546005 | DR-01 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546006 | DR-02 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546007 | MCM-06 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546008 | DPZ-02 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546009 | DUP-1 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546010 | FB-1 | EPA 3020A | 825866 | EPA 6020B | 826624 |
| 92612546001 | PT-01 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546002 | PT-02 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546003 | PT-03 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546004 | PT-04D | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546005 | DR-01 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546006 | DR-02 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546007 | MCM-06 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546008 | DPZ-02 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546009 | DUP-1 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546010 | FB-1 | EPA 3020A | 826179 | EPA 6020B | 826670 |
| 92612546001 | PT-01 | SM 2320B-2011 | 708484 | | |
| 92612546002 | PT-02 | SM 2320B-2011 | 708484 | | |
| 92612546003 | PT-03 | SM 2320B-2011 | 708485 | | |
| 92612546004 | PT-04D | SM 2320B-2011 | 708485 | | |
| 92612546005 | DR-01 | SM 2320B-2011 | 708485 | | |
| 92612546006 | DR-02 | SM 2320B-2011 | 708485 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS JUNE 2022

Pace Project No.: 92612546

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92612546007 | MCM-06 | SM 2320B-2011 | 708485 | | |
| 92612546008 | DPZ-02 | SM 2320B-2011 | 708485 | | |
| 92612546009 | DUP-1 | SM 2320B-2011 | 708485 | | |
| 92612546010 | FB-1 | SM 2320B-2011 | 708485 | | |
| 92612546001 | PT-01 | SM 2540C-2011 | 708223 | | |
| 92612546002 | PT-02 | SM 2540C-2011 | 708223 | | |
| 92612546003 | PT-03 | SM 2540C-2011 | 708223 | | |
| 92612546004 | PT-04D | SM 2540C-2011 | 708223 | | |
| 92612546005 | DR-01 | SM 2540C-2011 | 708223 | | |
| 92612546006 | DR-02 | SM 2540C-2011 | 708223 | | |
| 92612546007 | MCM-06 | SM 2540C-2011 | 708223 | | |
| 92612546008 | DPZ-02 | SM 2540C-2011 | 708223 | | |
| 92612546009 | DUP-1 | SM 2540C-2011 | 708223 | | |
| 92612546010 | FB-1 | SM 2540C-2011 | 708545 | | |
| 92612546001 | PT-01 | SM 4500-S2D-2011 | 708171 | | |
| 92612546002 | PT-02 | SM 4500-S2D-2011 | 708171 | | |
| 92612546003 | PT-03 | SM 4500-S2D-2011 | 708171 | | |
| 92612546004 | PT-04D | SM 4500-S2D-2011 | 708171 | | |
| 92612546005 | DR-01 | SM 4500-S2D-2011 | 708171 | | |
| 92612546006 | DR-02 | SM 4500-S2D-2011 | 708171 | | |
| 92612546007 | MCM-06 | SM 4500-S2D-2011 | 708171 | | |
| 92612546008 | DPZ-02 | SM 4500-S2D-2011 | 708171 | | |
| 92612546009 | DUP-1 | SM 4500-S2D-2011 | 708171 | | |
| 92612546010 | FB-1 | SM 4500-S2D-2011 | 708171 | | |
| 92612546001 | PT-01 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546002 | PT-02 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546003 | PT-03 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546004 | PT-04D | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546005 | DR-01 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546006 | DR-02 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546007 | MCM-06 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546008 | DPZ-02 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546009 | DUP-1 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546010 | FB-1 | EPA 300.0 Rev 2.1 1993 | 708118 | | |
| 92612546001 | PT-01 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546002 | PT-02 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546003 | PT-03 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546004 | PT-04D | SM 4500-CI-E-2011 | 708577 | | |
| 92612546005 | DR-01 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546006 | DR-02 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546007 | MCM-06 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546008 | DPZ-02 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546009 | DUP-1 | SM 4500-CI-E-2011 | 708577 | | |
| 92612546010 | FB-1 | SM 4500-CI-E-2011 | 708577 | | |

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Face Analytical**
Billing Information: **Leslie Environmental**

Address: **1803 W. Main St. Ste 208
Waukegan, IL 60087**

Report To: **Shawn Wilson @leslieenv.com** Email To: **Tracy Coburn @leslieenv.com**

Customer Project Name/Number: **West. Cadwys @leslieenv.com** State: **IL** County/City: **Waukegan** Time Zone Collected: **MT**

Phone: **815-466-0551** Site/Facility ID #: **Plant #12345** Compliance Monitoring?: **[] Yes [] No**

Collected By (Print): **Robert Mull** Purchase Order #: **12345** DW PWS ID #: **12345**

Collected By (Signature): **[Signature]** Turnaround Date Required: **Standard Turnaround** Immediately Packed on Ice: **[] Yes [] No**

Sample Disposal: **[] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day** Field Filtered (if applicable): **[] Yes [] No**

Matrix Codes (Insert in Matrix box below): **Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)**

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) | | Composite End | | Res CI | # of Cms |
|--------------------|----------|-------------|--------------------------------|-------|---------------|------|--------|----------|
| | | | Date | Time | Date | Time | | |
| PT-01 | GW | G | 6/28/21 | 15:55 | | | | X |
| PT-02 | GW | G | 6/29/21 | 10:00 | | | | X |
| PT-03 | GW | G | 6/28/21 | 14:50 | | | | X |
| PT-04D | GW | G | 6/28/21 | 14:20 | | | | X |
| DE-01 | GW | G | 6/28/21 | 14:52 | | | | X |
| DE-02 | GW | G | 6/28/21 | 16:05 | | | | X |
| MUM-06 | GW | G | 6/28/21 | 16:00 | | | | X |
| DPZ-02 | GW | G | 6/28/21 | 11:45 | | | | X |
| DUP-1 | GW | G | 6/28/21 | 11:45 | | | | X |
| FB-1 | DW | G | 6/28/21 | 10:40 | | | | X |

| Lab Tracking # | Short Holds Present (<72 hours) | Wet | Blue | Dry | None | Analyses |
|----------------|---------------------------------|-----|------|-----|------|--|
| 2655160 | | | | | | Total Metals Dissolved Metals Sulfide SM4500 Sulfate EPA 300.0 Alkalinity SM2520B Chloride SM 4500 TDS |

LAB USE ONLY - Affix Workorder/MTI
 Container Preservative Type **
ALL SHADED ARE

W0# : 92612546
 92612546

Lab Profile/Time: _____
 Lab Sample Receipts: _____
 Lab Sample # / Comments: _____

Lab Sample Receipts Checklist:
 Custody Seals present/Intact: **[X] Y [] N [] NA**
 Custody Signature Present: **[X] Y [] N [] NA**
 Collector Signature Present: **[X] Y [] N [] NA**
 Bottles Intact: **[X] Y [] N [] NA**
 Corrected Volume: **[X] Y [] N [] NA**
 Samples Received on Ice: **[X] Y [] N [] NA**
 VOA - Headspace Acceptable: **[X] Y [] N [] NA**
 USDA Regulated Soils: **[X] Y [] N [] NA**
 Samples in Holding Time: **[X] Y [] N [] NA**
 Residual Chlorine Present: **[X] Y [] N [] NA**
 CI Strips: **[X] Y [] N [] NA**
 Sample pH Acceptable: **[X] Y [] N [] NA**
 pH Strips: **[X] Y [] N [] NA**
 Sulfide Present: **[X] Y [] N [] NA**
 Lead Acetate Strips: **[X] Y [] N [] NA**

Lab Sample Temperature Info:
 Temp Blank Received: **[X] Y [] N [] NA**
 Therm 10#: **953071**
 Cooler 1 Temp Upon Receipt: **14** °C
 Cooler 1 Therm Corr. Factor: **0**
 Cooler 1 Corrected Temp: **14** °C
 Comments: _____



Document Name:
 Sample Condition Upon Receipt (SEUR)
 Document No.:
 F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

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

Exceptions: VOA, Coliform, TGC, Oil and Grease, DRO/8035 (water) DOC, L/Hg

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

Project:

WO# : 92612546

PM: NMG

Due Date: 07/15/22

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFLU-Wide-mouthed Glass Jar Unpreserved | AG31U-1 liter Amber Unpreserved (N/A) (Cl-) | AG31H-2 liter Amber HCl (pH < 2) | AG31U-250 mL Amber Unpreserved (N/A) (Cl-) | AG31S-1 liter Amber H2SO4 (pH < 2) | AG31S-250 mL Amber H2SO4 (pH < 2) | AG32A(DG3A)-250 mL Amber NH4Cl (N/A) (Cl-) | DG9H-40 mL VOA HCl (N/A) | V69T-40 mL VOA Na2S2O3 (N/A) | V69U-40 mL VOA Unpreserved (N/A) | DG9P-40 mL VOA H3PO4 (N/A) | VOAK (3 vials per kit)-S035 kit (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | | BP3A-250 mL Rigids (NH2)2SD4 (9.3-9.7) | AG50U-100 mL Amber Unpreserved vials (N/A) | V50U-20 mL Schindleron vials (N/A) | D69U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|---|----------------------------------|--|------------------------------------|-----------------------------------|--|--------------------------|------------------------------|----------------------------------|----------------------------|---------------------------------------|--|---|---|--|--|--|------------------------------------|--|--|--|
| 1 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 12/16/2022 3:54:27 PM Revision 2

JOB DESCRIPTION

Plant McManus AP1

JOB NUMBER

680-221504-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
12/16/2022 3:54:27 PM
Revision 2

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Qualifiers

HPLC/IC

| 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. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| 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. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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 |

Eurofins Savannah

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|---|
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

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Sample Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 680-221504-1 | MCM-18 | Water | 09/20/22 14:30 | 09/21/22 17:30 |
| 680-221504-2 | MCM-19 | Water | 09/20/22 15:58 | 09/21/22 17:30 |
| 680-221504-3 | DUP-1 | Water | 09/20/22 00:00 | 09/21/22 17:30 |
| 680-221504-4 | FB-1 | Water | 09/20/22 17:50 | 09/21/22 17:30 |
| 680-221504-5 | EB-1 | Water | 09/20/22 17:40 | 09/21/22 17:30 |
| 680-221504-6 | MCM-06 | Water | 09/20/22 10:14 | 09/21/22 17:30 |
| 680-221504-7 | MCM-20 | Water | 09/20/22 11:22 | 09/21/22 17:30 |
| 680-221504-8 | DPZ-2 | Water | 09/20/22 12:20 | 09/21/22 17:30 |
| 680-221504-9 | PT-01 | Water | 09/20/22 10:15 | 09/21/22 17:30 |
| 680-221504-10 | PT-02 | Water | 09/20/22 16:45 | 09/21/22 17:30 |
| 680-221504-11 | PT-03 | Water | 09/20/22 16:28 | 09/21/22 17:30 |
| 680-221504-12 | DR-01 | Water | 09/20/22 15:15 | 09/21/22 17:30 |
| 680-221504-13 | DR-02 | Water | 09/20/22 15:05 | 09/21/22 17:30 |
| 680-221590-1 | MCM-01 | Water | 09/21/22 18:08 | 09/23/22 10:40 |
| 680-221590-2 | MCM-02 | Water | 09/21/22 13:56 | 09/23/22 10:40 |
| 680-221590-3 | MCM-04 | Water | 09/21/22 15:20 | 09/23/22 10:40 |
| 680-221590-4 | MCM-05 | Water | 09/21/22 15:20 | 09/23/22 10:40 |
| 680-221590-5 | MCM-07 | Water | 09/21/22 10:50 | 09/23/22 10:40 |
| 680-221590-6 | MCM-11 | Water | 09/21/22 11:26 | 09/23/22 10:40 |
| 680-221590-7 | MCM-12 | Water | 09/21/22 11:10 | 09/23/22 10:40 |
| 680-221590-8 | MCM-14 | Water | 09/21/22 14:00 | 09/23/22 10:40 |
| 680-221590-9 | MCM-15 | Water | 09/21/22 16:45 | 09/23/22 10:40 |
| 680-221590-10 | MCM-16 | Water | 09/21/22 17:00 | 09/23/22 10:40 |
| 680-221590-11 | MCM-17 | Water | 09/21/22 18:45 | 09/23/22 10:40 |
| 680-221590-12 | DUP-2 | Water | 09/21/22 00:00 | 09/23/22 10:40 |
| 680-221590-13 | FB-2 | Water | 09/21/22 17:25 | 09/23/22 10:40 |
| 680-221590-14 | EB-2 | Water | 09/21/22 17:35 | 09/23/22 10:40 |
| 680-221590-15 | PT-04D | Water | 09/21/22 14:00 | 09/23/22 10:40 |

Case Narrative

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Job ID: 680-221504-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-221504-1

Revision 2

The report being provided is a revision of the original report sent on 10/18/2022. The report (revision 2) is being revised in order to report Lithium with less of a dilution for samples: DUP-1 (680-221504-3), MCM-06 (680-221504-6) and MCM-20 (680-221504-7) 680-221504-3. The same recent changes in the Pensacola's lab's control limits for internal standards made this possible. However, these Lithium results still did not meet the data quality objectives for this site, so these same three samples listed above were sent to Eurofins Pittsburgh in an attempt to report Lithium without dilution. These Lithium results are now reported with the 12/15/22 6020B analyses for DUP-1 (680-221504-3), MCM-06 (680-221504-6) and MCM-20 (680-221504-7).

Report revision history

Revision 1 - 11/18/2022 - Reason - in order to correct 6020B metals results, that were originally reported at 50, 100 or even 500 times diluted. to now report with only a 5X dilution. Recent changes in the lab's control limits for internal standards made this possible. NOTE: three samples still required 50 times dilution for Lithium due to matrix interferences as noted below.

Receipt

The samples were received on 9/21/2022 5:30 PM and 9/23/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 1.8°C, 2.0°C, 2.0°C, 2.2°C, 2.4°C, 2.5°C, 2.6°C, 3.0°C and 3.0°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recovery for analytical batch 680-743856 were outside control limits for fluoride. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 6020B: The following samples were diluted due to the abundance of non-target analytes: MCM-17 (680-221590-11), DR-01 (680-221504-12), DR-02 (680-221504-13) PT-04D (680-221590-15). Elevated reporting limits (RLs) are provided.

Method 6020B: Internal standard responses were outside of acceptance limits for the following sample(s): DUP-1 (680-221504-3), MCM-06 (680-221504-6) and MCM-20 (680-221504-7). The samples show evidence of matrix interference so a dilution of 50X was required.

Method 6020B: The method blank for Analytical Batches 594928 and 595577 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-742786 and analytical batch 680-743020 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-741871 was outside control limits: (680-221381-H-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-742241 was outside control limits: (680-221557-A-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Case Narrative

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Job ID: 680-221504-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-742189 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-18

Lab Sample ID: 680-221504-1

Date Collected: 09/20/22 14:30

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1200 | | 10 | 2.0 | mg/L | | | 10/03/22 16:32 | 10 |
| Fluoride | 0.61 | J | 1.0 | 0.40 | mg/L | | | 10/03/22 16:32 | 10 |
| Sulfate | 160 | | 10 | 4.0 | mg/L | | | 10/03/22 16:32 | 10 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 22:57 | 5 |
| Barium | 0.11 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Arsenic | 0.0026 | J | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 22:57 | 5 |
| Beryllium | 0.0030 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Boron | 0.18 | J B | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 22:57 | 5 |
| Cadmium | 0.00078 | J | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Calcium | 20 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Chromium | 0.0021 | J | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/13/22 21:48 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 22:57 | 5 |
| Iron | 32 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Lithium | <0.0049 | F1 | 0.025 | 0.0049 | mg/L | | 10/01/22 11:45 | 10/13/22 21:48 | 5 |
| Magnesium | 62 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Potassium | 9.0 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |
| Sodium | 690 | | 5.0 | 2.0 | mg/L | | 09/22/22 14:42 | 09/26/22 16:26 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:41 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 15:58 | 0 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/26/22 14:15 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:15 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:15 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 2000 | | 80 | 80 | mg/L | | | 09/23/22 10:39 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.47 | | | | SU | | | 09/20/22 14:30 | 1 |

Client Sample ID: MCM-19

Lab Sample ID: 680-221504-2

Date Collected: 09/20/22 15:58

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 6200 | | 100 | 20 | mg/L | | | 10/03/22 16:44 | 100 |
| Fluoride | <4.0 | | 10 | 4.0 | mg/L | | | 10/03/22 16:44 | 100 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-19

Lab Sample ID: 680-221504-2

Date Collected: 09/20/22 15:58

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | 740 | | 100 | 40 | mg/L | | | 10/03/22 16:44 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:12 | 5 |
| Barium | 0.12 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Arsenic | 0.021 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:12 | 5 |
| Beryllium | 0.017 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Boron | 0.77 | B | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:12 | 5 |
| Cadmium | 0.0083 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Calcium | 150 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:12 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:12 | 5 |
| Iron | 120 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Lithium | 0.014 | J | 0.050 | 0.0098 | mg/L | | 10/01/22 11:45 | 10/13/22 21:54 | 10 |
| Magnesium | 430 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Potassium | 73 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Selenium | 0.0046 | J | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |
| Sodium | 3200 | | 5.0 | 2.0 | mg/L | | 09/22/22 14:42 | 09/26/22 16:38 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:53 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:00 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 29 | | 5.0 | 2.2 | mg/L | | | 09/26/22 14:01 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 29 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:01 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:01 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 10000 | | 2000 | 2000 | mg/L | | | 09/23/22 10:39 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.14 | | | | SU | | | 09/20/22 15:58 | 1 |

Client Sample ID: DUP-1

Lab Sample ID: 680-221504-3

Date Collected: 09/20/22 00:00

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 2200 | | 25 | 5.0 | mg/L | | | 10/03/22 16:57 | 25 |
| Fluoride | 1.1 | J | 2.5 | 1.0 | mg/L | | | 10/03/22 16:57 | 25 |
| Sulfate | 290 | | 25 | 10 | mg/L | | | 10/03/22 16:57 | 25 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DUP-1

Lab Sample ID: 680-221504-3

Date Collected: 09/20/22 00:00

Matrix: Water

Date Received: 09/21/22 17:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|------------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:15 | 5 |
| Barium | 0.028 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Arsenic | 0.18 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:15 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Boron | 1.1 B | | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:15 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Calcium | 49 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:15 | 5 |
| Cobalt | 0.00025 J | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:15 | 5 |
| Iron | 0.075 J | | 0.10 | 0.026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Lithium | <0.049 | | 0.25 | 0.049 | mg/L | | 10/01/22 11:45 | 10/13/22 22:00 | 50 |
| Magnesium | 92 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Molybdenum | 0.0013 J | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Potassium | 61 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |
| Sodium | 1400 | | 5.0 | 2.0 | mg/L | | 09/22/22 14:42 | 09/26/22 16:42 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:56 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:03 | 1 |

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lithium | 0.043 | | 0.0050 | 0.00083 | mg/L | | 12/13/22 14:00 | 12/15/22 12:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 250 | | 5.0 | 2.2 | mg/L | | | 09/26/22 14:26 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 250 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:26 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:26 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 4000 | | 400 | 400 | mg/L | | | 09/23/22 10:39 | 1 |

Client Sample ID: FB-1

Lab Sample ID: 680-221504-4

Date Collected: 09/20/22 17:50

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/03/22 17:09 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/03/22 17:09 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/03/22 17:09 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----------|-----------|-------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:37 | 5 |
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: FB-1

Lab Sample ID: 680-221504-4

Date Collected: 09/20/22 17:50

Matrix: Water

Date Received: 09/21/22 17:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|---------------|------------|--------|----------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:37 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Boron | 0.0051 | J B | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:37 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:37 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:37 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/01/22 11:45 | 10/13/22 22:07 | 5 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/23/22 07:50 | 09/26/22 17:24 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/23/22 07:50 | 09/24/22 04:06 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:11 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/26/22 14:32 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:32 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 14:32 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/23/22 10:39 | 1 |

Client Sample ID: EB-1

Lab Sample ID: 680-221504-5

Date Collected: 09/20/22 17:40

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/03/22 17:21 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/03/22 17:21 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/03/22 17:21 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|---------------|------------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:40 | 5 |
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:40 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Boron | 0.0033 | J B | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:40 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:40 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: EB-1

Lab Sample ID: 680-221504-5

Date Collected: 09/20/22 17:40

Matrix: Water

Date Received: 09/21/22 17:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:40 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/01/22 11:45 | 10/13/22 22:13 | 5 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:18 | 09/23/22 22:10 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:13 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/27/22 18:51 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 18:51 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 18:51 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/23/22 10:39 | 1 |

Client Sample ID: MCM-06

Lab Sample ID: 680-221504-6

Date Collected: 09/20/22 10:14

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 2800 | | 25 | 5.0 | mg/L | | | 10/03/22 17:34 | 25 |
| Fluoride | 1.1 | J | 2.5 | 1.0 | mg/L | | | 10/03/22 17:34 | 25 |
| Sulfate | 320 | | 25 | 10 | mg/L | | | 10/03/22 17:34 | 25 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:43 | 5 |
| Barium | 0.027 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Arsenic | 0.18 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:43 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Boron | 1.1 | B | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:43 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Calcium | 47 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:43 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:43 | 5 |
| Iron | 0.056 | J | 0.10 | 0.026 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Lithium | <0.049 | | 0.25 | 0.049 | mg/L | | 10/01/22 11:45 | 10/13/22 22:34 | 50 |
| Magnesium | 91 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Molybdenum | 0.0013 | J | 0.015 | 0.00086 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-06

Lab Sample ID: 680-221504-6

Date Collected: 09/20/22 10:14

Matrix: Water

Date Received: 09/21/22 17:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Potassium | 56 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |
| Sodium | 1400 | | 5.0 | 2.0 | mg/L | | 09/22/22 14:18 | 09/26/22 16:06 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:18 | 09/23/22 22:14 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:31 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:16 | 1 |

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lithium | 0.043 | | 0.0050 | 0.00083 | mg/L | | 12/13/22 14:00 | 12/15/22 13:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 270 | | 5.0 | 2.2 | mg/L | | | 09/27/22 19:18 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 270 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:18 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:18 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 3900 | | 400 | 400 | mg/L | | | 09/23/22 10:39 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 20 | F1 | 0.83 | 0.83 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.29 | | | | SU | | | 09/20/22 10:14 | 1 |

Client Sample ID: MCM-20

Lab Sample ID: 680-221504-7

Date Collected: 09/20/22 11:22

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 5700 | | 50 | 10 | mg/L | | | 10/03/22 17:46 | 50 |
| Fluoride | 4.3 | J | 5.0 | 2.0 | mg/L | | | 10/03/22 17:46 | 50 |
| Sulfate | 750 | | 50 | 20 | mg/L | | | 10/03/22 17:46 | 50 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:46 | 5 |
| Barium | 0.12 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Arsenic | 0.026 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:46 | 5 |
| Beryllium | 0.020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Boron | 0.90 | B | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:46 | 5 |
| Cadmium | 0.0043 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Calcium | 100 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-20

Lab Sample ID: 680-221504-7

Date Collected: 09/20/22 11:22

Matrix: Water

Date Received: 09/21/22 17:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:46 | 5 |
| Cobalt | 0.030 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:46 | 5 |
| Iron | 130 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Lithium | <0.049 | | 0.25 | 0.049 | mg/L | | 10/01/22 11:45 | 10/13/22 22:41 | 50 |
| Magnesium | 330 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Potassium | 74 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Selenium | 0.0027 | J | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |
| Sodium | 2900 | | 5.0 | 2.0 | mg/L | | 09/22/22 14:18 | 09/26/22 15:51 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:18 | 09/23/22 21:51 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 120 | | 0.10 | 0.026 | mg/L | | 09/27/22 11:35 | 09/29/22 18:06 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:18 | 1 |

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lithium | 0.029 | | 0.0050 | 0.00083 | mg/L | | 12/13/22 14:00 | 12/15/22 13:17 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/27/22 19:06 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:06 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:06 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 8600 | | 2000 | 2000 | mg/L | | | 09/23/22 10:39 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 2.1 | | 0.86 | 0.86 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 3.63 | | | | SU | | | 09/20/22 11:22 | 1 |

Client Sample ID: DPZ-2

Lab Sample ID: 680-221504-8

Date Collected: 09/20/22 12:20

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 7400 | | 100 | 20 | mg/L | | | 10/06/22 16:18 | 100 |
| Fluoride | <4.0 | | 10 | 4.0 | mg/L | | | 10/06/22 16:18 | 100 |
| Sulfate | 820 | | 100 | 40 | mg/L | | | 10/06/22 16:18 | 100 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DPZ-2
Date Collected: 09/20/22 12:20
Date Received: 09/21/22 17:30

Lab Sample ID: 680-221504-8
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 23:49 | 5 |
| Barium | 0.069 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Arsenic | 0.021 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:49 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Boron | 1.7 B | | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:49 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Calcium | 240 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 23:49 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 23:49 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/01/22 11:45 | 10/07/22 23:49 | 5 |
| Magnesium | 450 | | 5.0 | 0.23 | mg/L | | 09/22/22 14:42 | 09/26/22 16:45 | 10 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Potassium | 140 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |
| Sodium | 4100 | | 5.0 | 2.0 | mg/L | | 09/22/22 14:42 | 09/26/22 16:45 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:42 | 09/23/22 20:00 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:42 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 16:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 410 | | 5.0 | 2.2 | mg/L | | | 09/27/22 19:24 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 410 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:24 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:24 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 13000 | | 2000 | 2000 | mg/L | | | 09/23/22 10:39 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 23 | | 0.83 | 0.83 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.07 | | | | SU | | | 09/20/22 12:20 | 1 |

Client Sample ID: PT-01
Date Collected: 09/20/22 10:15
Date Received: 09/21/22 17:30

Lab Sample ID: 680-221504-9
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 2400 | | 25 | 5.0 | mg/L | | | 10/06/22 16:30 | 25 |
| Fluoride | <1.0 | | 2.5 | 1.0 | mg/L | | | 10/06/22 16:30 | 25 |
| Sulfate | 210 | | 25 | 10 | mg/L | | | 10/06/22 16:30 | 25 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: PT-01

Lab Sample ID: 680-221504-9

Date Collected: 09/20/22 10:15

Matrix: Water

Date Received: 09/21/22 17:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.035 | | 0.0013 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:52 | 5 |
| Iron | <0.079 | | 0.13 | 0.079 | mg/L | | 10/01/22 11:45 | 10/07/22 23:52 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 0.039 | J | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 4600 | | 400 | 400 | mg/L | | | 09/23/22 10:39 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 19 | | 0.83 | 0.83 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.12 | | | | SU | | | 09/20/22 10:15 | 1 |

Client Sample ID: PT-02

Lab Sample ID: 680-221504-10

Date Collected: 09/20/22 16:45

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 2100 | | 25 | 5.0 | mg/L | | | 10/06/22 16:43 | 25 |
| Fluoride | <1.0 | | 2.5 | 1.0 | mg/L | | | 10/06/22 16:43 | 25 |
| Sulfate | 190 | | 25 | 10 | mg/L | | | 10/06/22 16:43 | 25 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0094 | | 0.0013 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:55 | 5 |
| Iron | 0.12 | J | 0.13 | 0.079 | mg/L | | 10/01/22 11:45 | 10/07/22 23:55 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 0.035 | J | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:46 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 3800 | | 400 | 400 | mg/L | | | 09/23/22 10:39 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 19 | | 0.83 | 0.83 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.38 | | | | SU | | | 09/20/22 16:45 | 1 |

Client Sample ID: PT-03

Lab Sample ID: 680-221504-11

Date Collected: 09/20/22 16:28

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Chloride | 1900 | | 25 | 5.0 | mg/L | | | 10/06/22 16:56 | 25 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: PT-03

Lab Sample ID: 680-221504-11

Date Collected: 09/20/22 16:28

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.0 | | 2.5 | 1.0 | mg/L | | | 10/06/22 16:56 | 25 |
| Sulfate | 210 | | 25 | 10 | mg/L | | | 10/06/22 16:56 | 25 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.047 | | 0.0013 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 23:58 | 5 |
| Iron | 0.097 | J | 0.13 | 0.079 | mg/L | | 10/01/22 11:45 | 10/07/22 23:58 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 3700 | | 200 | 200 | mg/L | | | 09/26/22 13:05 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 18 | | 0.83 | 0.83 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.30 | | | | SU | | | 09/20/22 16:28 | 1 |

Client Sample ID: DR-01

Lab Sample ID: 680-221504-12

Date Collected: 09/20/22 15:15

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 3100 | | 25 | 5.0 | mg/L | | | 10/06/22 21:37 | 25 |
| Fluoride | 1.0 | J | 2.5 | 1.0 | mg/L | | | 10/06/22 21:37 | 25 |
| Sulfate | 330 | | 25 | 10 | mg/L | | | 10/06/22 21:37 | 25 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.030 | | 0.0013 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/08/22 00:01 | 5 |
| Iron | <0.079 | | 0.13 | 0.079 | mg/L | | 10/01/22 11:45 | 10/08/22 00:01 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:57 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 5800 | | 400 | 400 | mg/L | | | 09/26/22 13:05 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 24 | | 0.81 | 0.81 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.36 | | | | SU | | | 09/20/22 15:15 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DR-02

Lab Sample ID: 680-221504-13

Date Collected: 09/20/22 15:05

Matrix: Water

Date Received: 09/21/22 17:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 3700 | | 50 | 10 | mg/L | | | 10/06/22 19:52 | 50 |
| Fluoride | <2.0 | | 5.0 | 2.0 | mg/L | | | 10/06/22 19:52 | 50 |
| Sulfate | 430 | | 50 | 20 | mg/L | | | 10/06/22 19:52 | 50 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.036 | | 0.0013 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/08/22 00:05 | 5 |
| Iron | <0.079 | | 0.13 | 0.079 | mg/L | | 10/01/22 11:45 | 10/08/22 00:05 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | 0.035 | J | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 03:09 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 7800 | | 2000 | 2000 | mg/L | | | 09/26/22 13:05 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 22 | | 0.86 | 0.86 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.32 | | | | SU | | | 09/20/22 15:05 | 1 |

Client Sample ID: MCM-01

Lab Sample ID: 680-221590-1

Date Collected: 09/21/22 18:08

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 17 | | 1.0 | 0.20 | mg/L | | | 10/07/22 23:36 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/07/22 23:36 | 1 |
| Sulfate | 39 | | 1.0 | 0.40 | mg/L | | | 10/07/22 23:36 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 23:31 | 5 |
| Barium | 0.11 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Arsenic | 0.0057 | J | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:31 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Boron | 0.35 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:31 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Calcium | 9.2 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Chromium | 0.0014 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 23:31 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 23:31 | 5 |
| Iron | 2.7 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 23:31 | 5 |
| Magnesium | 1.9 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Potassium | 2.2 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-01

Lab Sample ID: 680-221590-1

Date Collected: 09/21/22 18:08

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Sodium | 17 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:55 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 10:52 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 5.0 | | 5.0 | 2.2 | mg/L | | | 09/27/22 19:38 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:38 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:38 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 100 | | 10 | 10 | mg/L | | | 09/26/22 13:05 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.95 | | | | SU | | | 09/21/22 18:08 | 1 |

Client Sample ID: MCM-02

Lab Sample ID: 680-221590-2

Date Collected: 09/21/22 13:56

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 23 | | 1.0 | 0.20 | mg/L | | | 10/07/22 23:49 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/07/22 23:49 | 1 |
| Sulfate | 29 | | 1.0 | 0.40 | mg/L | | | 10/07/22 23:49 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 23:35 | 5 |
| Barium | 0.076 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:35 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Boron | 0.23 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:35 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Calcium | 4.3 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 23:35 | 5 |
| Cobalt | 0.00032 | J | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 23:35 | 5 |
| Iron | 1.2 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 23:35 | 5 |
| Magnesium | 2.1 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Potassium | 0.81 | J | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Sodium | 19 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:36 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-02

Lab Sample ID: 680-221590-2

Date Collected: 09/21/22 13:56

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 10:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 5.9 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:37 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 5.9 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:37 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:37 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 90 | | 10 | 10 | mg/L | | | 09/26/22 13:05 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.14 | | | | SU | | | 09/21/22 13:56 | 1 |

Client Sample ID: MCM-04

Lab Sample ID: 680-221590-3

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 47 | | 1.0 | 0.20 | mg/L | | | 10/08/22 00:02 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 00:02 | 1 |
| Sulfate | 52 | | 1.0 | 0.40 | mg/L | | | 10/08/22 00:02 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 23:38 | 5 |
| Barium | 0.029 | | 0.010 | 0.00089 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Arsenic | 0.0017 | J | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:38 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Boron | 0.19 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:38 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Calcium | 7.8 | | 0.50 | 0.14 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Chromium | 0.0015 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 23:38 | 5 |
| Cobalt | 0.0025 | | 0.0025 | 0.00022 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 23:38 | 5 |
| Iron | 2.4 | | 0.10 | 0.026 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 23:38 | 5 |
| Magnesium | 2.4 | | 0.50 | 0.023 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Potassium | 7.7 | | 1.0 | 0.16 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Sodium | 39 | | 0.50 | 0.20 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/29/22 10:24 | 09/30/22 17:27 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 10:57 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-04

Lab Sample ID: 680-221590-3

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 12 | | 5.0 | 2.2 | mg/L | | | 09/27/22 19:49 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 12 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:49 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:49 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 180 | | 40 | 40 | mg/L | | | 09/26/22 13:05 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.34 | | | | SU | | | 09/21/22 15:20 | 1 |

Client Sample ID: MCM-05

Lab Sample ID: 680-221590-4

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1100 | | 10 | 2.0 | mg/L | | | 10/09/22 10:33 | 10 |
| Fluoride | 0.48 | | 0.10 | 0.040 | mg/L | | | 10/08/22 00:14 | 1 |
| Sulfate | 100 | | 1.0 | 0.40 | mg/L | | | 10/08/22 00:14 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 23:41 | 5 |
| Barium | 0.014 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Arsenic | 0.0077 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:41 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Boron | 0.61 | B | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:41 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Calcium | 28 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Chromium | 0.0016 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 23:41 | 5 |
| Cobalt | 0.00026 | J | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 23:41 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Lithium | 0.018 | J | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 23:41 | 5 |
| Magnesium | 60 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Molybdenum | 0.00095 | J | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Potassium | 33 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Selenium | <0.0012 | F1 | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |
| Sodium | 620 | | 5.0 | 2.0 | mg/L | | 09/27/22 06:03 | 09/28/22 17:46 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:09 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 10:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 210 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:08 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-05

Lab Sample ID: 680-221590-4

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 210 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:08 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:08 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 2100 | | 80 | 80 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.93 | | | | SU | | | 09/21/22 15:20 | 1 |

Client Sample ID: MCM-07

Lab Sample ID: 680-221590-5

Date Collected: 09/21/22 10:50

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 6400 | | 100 | 20 | mg/L | | | 10/09/22 10:46 | 100 |
| Fluoride | 0.18 | | 0.10 | 0.040 | mg/L | | | 10/08/22 00:27 | 1 |
| Sulfate | 660 | | 100 | 40 | mg/L | | | 10/09/22 10:46 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 23:44 | 5 |
| Barium | 0.12 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Arsenic | 0.010 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:44 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Boron | 1.3 | B | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:44 | 5 |
| Cadmium | 0.00020 | J | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Calcium | 190 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Chromium | 0.0027 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 23:44 | 5 |
| Cobalt | 0.00031 | J | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 23:44 | 5 |
| Iron | 0.033 | J | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Lithium | 0.020 | J | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 23:44 | 5 |
| Magnesium | 410 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Molybdenum | 0.00095 | J | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Potassium | 100 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |
| Sodium | 3100 | | 5.0 | 2.0 | mg/L | | 09/27/22 06:03 | 09/28/22 17:58 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:21 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 300 | | 5.0 | 2.2 | mg/L | | | 09/27/22 20:45 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 300 | | 5.0 | 5.0 | mg/L | | | 09/27/22 20:45 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-07

Lab Sample ID: 680-221590-5

Date Collected: 09/21/22 10:50

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|------|------|------|---|----------|----------------|---------|
| Carbonate Alkalinity as CaCO ₃ (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 20:45 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 9400 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.27 | | | | SU | | | 09/21/22 10:50 | 1 |

Client Sample ID: MCM-11

Lab Sample ID: 680-221590-6

Date Collected: 09/21/22 11:26

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 32 | | 1.0 | 0.20 | mg/L | | | 10/08/22 00:40 | 1 |
| Fluoride | 0.11 | | 0.10 | 0.040 | mg/L | | | 10/08/22 00:40 | 1 |
| Sulfate | 23 | | 1.0 | 0.40 | mg/L | | | 10/08/22 00:40 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 23:47 | 5 |
| Barium | 0.040 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Arsenic | 0.013 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:47 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Boron | 0.17 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 23:47 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Calcium | 7.6 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Chromium | 0.0015 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 23:47 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 23:47 | 5 |
| Iron | 7.0 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 23:47 | 5 |
| Magnesium | 1.8 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Potassium | 0.69 | J | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Sodium | 23 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:07 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO₃ to pH 4.5 (SM 2320B-2011) | 26 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:23 | 1 |
| Bicarbonate Alkalinity as CaCO₃ (SM 2320B-2011) | 26 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:23 | 1 |
| Carbonate Alkalinity as CaCO ₃ (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:23 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-11
Date Collected: 09/21/22 11:26
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-6
Matrix: Water

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 110 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.97 | | | | SU | | | 09/21/22 11:26 | 1 |

Client Sample ID: MCM-12
Date Collected: 09/21/22 11:10
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-7
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 400 | | 5.0 | 1.0 | mg/L | | | 10/08/22 01:56 | 5 |
| Fluoride | 1.3 | | 0.50 | 0.20 | mg/L | | | 10/08/22 01:56 | 5 |
| Sulfate | <2.0 | | 5.0 | 2.0 | mg/L | | | 10/08/22 01:56 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:01 | 5 |
| Barium | 0.068 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:01 | 5 |
| Beryllium | 0.0011 | J | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Boron | 1.3 | | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:01 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Calcium | 4.7 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Chromium | 0.0077 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:01 | 5 |
| Cobalt | 0.00042 | J | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Lead | 0.00083 | J | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:01 | 5 |
| Iron | 0.17 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Lithium | 0.0075 | J | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:01 | 5 |
| Magnesium | 8.7 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Potassium | 19 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Sodium | 400 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:03 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 450 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:17 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 450 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:17 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:17 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 1300 | | 40 | 40 | mg/L | | | 09/27/22 12:02 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-12

Lab Sample ID: 680-221590-7

Date Collected: 09/21/22 11:10

Matrix: Water

Date Received: 09/23/22 10:40

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.30 | | | | SU | | | 09/21/22 11:10 | 1 |

Client Sample ID: MCM-14

Lab Sample ID: 680-221590-8

Date Collected: 09/21/22 14:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3300 | | 100 | 20 | mg/L | | | 10/09/22 10:58 | 100 |
| Fluoride | 0.12 | | 0.10 | 0.040 | mg/L | | | 10/08/22 02:08 | 1 |
| Sulfate | 270 | | 100 | 40 | mg/L | | | 10/09/22 10:58 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 19:46 | 5 |
| Barium | 0.059 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 19:46 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Boron | 1.0 | B | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 19:46 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Calcium | 74 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Chromium | 0.0015 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 19:46 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 19:46 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Lithium | 0.028 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 19:46 | 5 |
| Magnesium | 150 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Potassium | 61 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |
| Sodium | 1600 | | 5.0 | 2.0 | mg/L | | 09/27/22 06:03 | 09/28/22 18:01 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:25 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:10 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 210 | | 5.0 | 2.2 | mg/L | | | 09/27/22 19:56 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 210 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:56 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 19:56 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 7400 | | 400 | 400 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.61 | | | | SU | | | 09/21/22 14:00 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-15

Lab Sample ID: 680-221590-9

Date Collected: 09/21/22 16:45

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.3 | | 1.0 | 0.20 | mg/L | | | 10/08/22 02:21 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 02:21 | 1 |
| Sulfate | 6.3 | | 1.0 | 0.40 | mg/L | | | 10/08/22 02:21 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:04 | 5 |
| Barium | 0.022 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Arsenic | 0.0044 | J | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:04 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Boron | 0.14 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:04 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Calcium | 0.83 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Chromium | 0.0020 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:04 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Lead | 0.00092 | J | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:04 | 5 |
| Iron | 0.46 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:04 | 5 |
| Magnesium | 0.33 | J | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Molybdenum | 0.00094 | J | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Potassium | 7.3 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Sodium | 2.6 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:15 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:17 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 6.7 | | 5.0 | 2.2 | mg/L | | | 09/27/22 20:02 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 6.7 | | 5.0 | 5.0 | mg/L | | | 09/27/22 20:02 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 20:02 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 38 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.23 | | | | SU | | | 09/21/22 16:45 | 1 |

Client Sample ID: MCM-16

Lab Sample ID: 680-221590-10

Date Collected: 09/21/22 17:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 17 | | 1.0 | 0.20 | mg/L | | | 10/08/22 01:18 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 01:18 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-16

Lab Sample ID: 680-221590-10

Date Collected: 09/21/22 17:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Sulfate | 24 | | 1.0 | 0.40 | mg/L | | | 10/08/22 01:18 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:08 | 5 |
| Barium | 0.11 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:08 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Boron | 0.12 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:08 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Calcium | 4.6 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Chromium | 0.0015 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:08 | 5 |
| Cobalt | 0.00024 | J | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:08 | 5 |
| Iron | 1.7 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:08 | 5 |
| Magnesium | 2.3 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Potassium | 1.0 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Sodium | 11 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:48 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 3.4 | J | 5.0 | 2.2 | mg/L | | | 09/27/22 20:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 20:23 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 20:23 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 78 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 4.91 | | | | SU | | | 09/21/22 17:00 | 1 |

Client Sample ID: MCM-17

Lab Sample ID: 680-221590-11

Date Collected: 09/21/22 18:45

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3300 | | 100 | 20 | mg/L | | | 10/09/22 11:10 | 100 |
| Fluoride | 0.78 | | 0.20 | 0.080 | mg/L | | | 10/08/22 02:34 | 2 |
| Sulfate | 330 | | 2.0 | 0.80 | mg/L | | | 10/08/22 02:34 | 2 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-17

Lab Sample ID: 680-221590-11

Date Collected: 09/21/22 18:45

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:11 | 5 |
| Barium | 0.089 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:11 | 5 |
| Beryllium | 0.00029 | J | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Boron | 1.8 | | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:11 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Calcium | 110 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Chromium | 0.0063 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:11 | 5 |
| Cobalt | 0.00025 | J | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:11 | 5 |
| Iron | 0.034 | J | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Lithium | 0.023 | J | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:11 | 5 |
| Magnesium | 170 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Potassium | 86 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |
| Sodium | 1800 | | 5.0 | 2.0 | mg/L | | 09/27/22 06:03 | 09/28/22 18:05 | 10 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:52 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 570 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:44 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 570 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:44 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:44 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 6200 | | 400 | 400 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.72 | | | | SU | | | 09/21/22 18:45 | 1 |

Client Sample ID: DUP-2

Lab Sample ID: 680-221590-12

Date Collected: 09/21/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.0 | | 1.0 | 0.20 | mg/L | | | 10/08/22 03:12 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 03:12 | 1 |
| Sulfate | 5.9 | | 1.0 | 0.40 | mg/L | | | 10/08/22 03:12 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|--------------|-----------|-------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:38 | 5 |
| Barium | 0.022 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DUP-2
Date Collected: 09/21/22 00:00
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-12
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|----------------|------------|--------|----------|------|---|----------------|----------------|---------|
| Arsenic | 0.0030 | J | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/07/22 21:30 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Boron | 0.036 | J B | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/07/22 21:30 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Calcium | 0.86 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Chromium | 0.0018 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:38 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:38 | 5 |
| Iron | 0.45 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:38 | 5 |
| Magnesium | 0.33 | J | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Molybdenum | 0.00094 | J | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Potassium | 7.5 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Sodium | 2.7 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:59 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 7.1 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:50 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 7.1 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:50 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:50 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 38 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

Client Sample ID: FB-2
Date Collected: 09/21/22 17:25
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-13
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/08/22 03:24 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 03:24 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/08/22 03:24 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|---------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:41 | 5 |
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/07/22 21:33 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Boron | 0.025 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:41 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Chromium | 0.0010 | J | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:41 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: FB-2

Lab Sample ID: 680-221590-13

Date Collected: 09/21/22 17:25

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:41 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:41 | 5 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/28/22 00:11 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:27 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/27/22 21:55 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:55 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 21:55 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

Client Sample ID: EB-2

Lab Sample ID: 680-221590-14

Date Collected: 09/21/22 17:35

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/08/22 03:37 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 03:37 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/08/22 03:37 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 20:45 | 5 |
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/07/22 21:36 | 5 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Boron | 0.021 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:45 | 5 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 20:45 | 5 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 20:45 | 5 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:45 | 5 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: EB-2

Lab Sample ID: 680-221590-14

Date Collected: 09/21/22 17:35

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:32 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 11:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/27/22 22:05 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 22:05 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 22:05 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

Client Sample ID: PT-04D

Lab Sample ID: 680-221590-15

Date Collected: 09/21/22 14:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 6200 | | 100 | 20 | mg/L | | | 10/09/22 11:23 | 100 |
| Fluoride | <1.0 | | 2.5 | 1.0 | mg/L | | | 10/08/22 02:46 | 25 |
| Sulfate | 750 | | 25 | 10 | mg/L | | | 10/08/22 02:46 | 25 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0041 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:48 | 5 |
| Iron | <0.079 | | 0.13 | 0.079 | mg/L | | 10/02/22 11:35 | 10/03/22 20:48 | 5 |

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 11:35 | 09/29/22 17:47 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 11000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |
| Sulfide (SM 4500 S2 F-2011) | 23 | | 0.83 | 0.83 | mg/L | | | 09/26/22 10:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.20 | | | | SU | | | 09/21/22 14:00 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-743228/2
Matrix: Water
Analysis Batch: 743228

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/03/22 10:21 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/03/22 10:21 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/03/22 10:21 | 1 |

Lab Sample ID: LCS 680-743228/3
Matrix: Water
Analysis Batch: 743228

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 |
| Fluoride | 2.00 | 2.06 | | mg/L | | 103 | 90 - 110 |
| Sulfate | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: LCSD 680-743228/4
Matrix: Water
Analysis Batch: 743228

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 2.07 | | mg/L | | 103 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 | 0 | 15 |

Lab Sample ID: 680-221244-A-3 MSD
Matrix: Water
Analysis Batch: 743228

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 11 | | 10.0 | 21.2 | | mg/L | | 106 | 80 - 120 | 0 | 15 |
| Fluoride | 0.24 | | 2.00 | 2.37 | | mg/L | | 106 | 80 - 120 | 0 | 15 |
| Sulfate | 4.9 | | 10.0 | 14.6 | | mg/L | | 96 | 80 - 120 | 1 | 15 |

Lab Sample ID: 680-221244-AS-3 MS
Matrix: Water
Analysis Batch: 743228

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 11 | | 10.0 | 21.2 | | mg/L | | 106 | 80 - 120 |
| Fluoride | 0.24 | | 2.00 | 2.37 | | mg/L | | 107 | 80 - 120 |
| Sulfate | 4.9 | | 10.0 | 14.7 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: MB 680-743856/2
Matrix: Water
Analysis Batch: 743856

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/06/22 10:55 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/06/22 10:55 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/06/22 10:55 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-743856/3
Matrix: Water
Analysis Batch: 743856

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 9.96 | | mg/L | | 100 | 90 - 110 |
| Fluoride | 2.00 | 2.14 | | mg/L | | 107 | 90 - 110 |
| Sulfate | 10.0 | 9.94 | | mg/L | | 99 | 90 - 110 |

Lab Sample ID: LCSD 680-743856/4
Matrix: Water
Analysis Batch: 743856

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 9.94 | | mg/L | | 99 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 2.17 | | mg/L | | 108 | 90 - 110 | 1 | 15 |
| Sulfate | 10.0 | 9.98 | | mg/L | | 100 | 90 - 110 | 0 | 15 |

Lab Sample ID: 680-221851-C-8 MS
Matrix: Water
Analysis Batch: 743856

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 50 | | 10.0 | 60.5 | 4 | mg/L | | 102 | 80 - 120 |
| Fluoride | 0.66 | F1 | 2.00 | 3.11 | F1 | mg/L | | 122 | 80 - 120 |
| Sulfate | 7.1 | | 10.0 | 17.3 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: 680-221851-C-8 MSD
Matrix: Water
Analysis Batch: 743856

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 50 | | 10.0 | 60.3 | 4 | mg/L | | 100 | 80 - 120 | 0 | 15 |
| Fluoride | 0.66 | F1 | 2.00 | 2.82 | | mg/L | | 108 | 80 - 120 | 10 | 15 |
| Sulfate | 7.1 | | 10.0 | 17.1 | | mg/L | | 100 | 80 - 120 | 1 | 15 |

Lab Sample ID: MB 680-743937/2
Matrix: Water
Analysis Batch: 743937

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/06/22 14:13 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/06/22 14:13 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/06/22 14:13 | 1 |

Lab Sample ID: LCS 680-743937/3
Matrix: Water
Analysis Batch: 743937

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.2 | | mg/L | | 102 | 90 - 110 |
| Fluoride | 2.00 | 2.04 | | mg/L | | 102 | 90 - 110 |
| Sulfate | 10.0 | 9.75 | | mg/L | | 97 | 90 - 110 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-743937/4
Matrix: Water
Analysis Batch: 743937

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.2 | | mg/L | | 102 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 2.05 | | mg/L | | 102 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 9.83 | | mg/L | | 98 | 90 - 110 | 1 | 15 |

Lab Sample ID: 190-29941-A-5 MS
Matrix: Water
Analysis Batch: 743937

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 76 | | 10.0 | 86.1 | 4 | mg/L | | 102 | 80 - 120 |
| Fluoride | 0.51 | | 2.00 | 2.65 | | mg/L | | 107 | 80 - 120 |
| Sulfate | 24 | | 10.0 | 33.7 | | mg/L | | 100 | 80 - 120 |

Lab Sample ID: 190-29941-A-5 MSD
Matrix: Water
Analysis Batch: 743937

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 76 | | 10.0 | 86.3 | 4 | mg/L | | 104 | 80 - 120 | 0 | 15 |
| Fluoride | 0.51 | | 2.00 | 2.67 | | mg/L | | 108 | 80 - 120 | 1 | 15 |
| Sulfate | 24 | | 10.0 | 33.8 | | mg/L | | 101 | 80 - 120 | 0 | 15 |

Lab Sample ID: MB 680-744183/41
Matrix: Water
Analysis Batch: 744183

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/07/22 21:43 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/07/22 21:43 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/07/22 21:43 | 1 |

Lab Sample ID: LCS 680-744183/42
Matrix: Water
Analysis Batch: 744183

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 |
| Fluoride | 2.00 | 1.99 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 10.0 | 9.74 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: LCSD 680-744183/43
Matrix: Water
Analysis Batch: 744183

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 1.99 | | mg/L | | 100 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 9.82 | | mg/L | | 98 | 90 - 110 | 1 | 15 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 190-29943-A-8 MS
Matrix: Water
Analysis Batch: 744183

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 160 | | 10.0 | 164 | 4 | mg/L | | 93 | 80 - 120 |
| Fluoride | 0.064 | J | 2.00 | 2.23 | | mg/L | | 108 | 80 - 120 |
| Sulfate | 20 | | 10.0 | 31.0 | | mg/L | | 106 | 80 - 120 |

Lab Sample ID: 190-29943-A-8 MSD
Matrix: Water
Analysis Batch: 744183

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 160 | | 10.0 | 164 | 4 | mg/L | | 89 | 80 - 120 | 0 | 15 |
| Fluoride | 0.064 | J | 2.00 | 2.16 | | mg/L | | 105 | 80 - 120 | 3 | 15 |
| Sulfate | 20 | | 10.0 | 30.7 | | mg/L | | 102 | 80 - 120 | 1 | 15 |

Lab Sample ID: 680-221590-10 MS
Matrix: Water
Analysis Batch: 744183

Client Sample ID: MCM-16
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 17 | | 10.0 | 27.8 | | mg/L | | 104 | 80 - 120 |
| Fluoride | <0.040 | | 2.00 | 2.06 | | mg/L | | 103 | 80 - 120 |
| Sulfate | 24 | | 10.0 | 34.3 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: 680-221590-10 MSD
Matrix: Water
Analysis Batch: 744183

Client Sample ID: MCM-16
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 17 | | 10.0 | 27.9 | | mg/L | | 105 | 80 - 120 | 1 | 15 |
| Fluoride | <0.040 | | 2.00 | 2.09 | | mg/L | | 104 | 80 - 120 | 1 | 15 |
| Sulfate | 24 | | 10.0 | 34.5 | | mg/L | | 102 | 80 - 120 | 1 | 15 |

Lab Sample ID: MB 680-744301/2
Matrix: Water
Analysis Batch: 744301

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/09/22 08:41 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/09/22 08:41 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/09/22 08:41 | 1 |

Lab Sample ID: LCS 680-744301/3
Matrix: Water
Analysis Batch: 744301

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.2 | | mg/L | | 102 | 90 - 110 |
| Fluoride | 2.00 | 2.04 | | mg/L | | 102 | 90 - 110 |
| Sulfate | 10.0 | 9.31 | | mg/L | | 93 | 90 - 110 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-744301/4
Matrix: Water
Analysis Batch: 744301

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.2 | | mg/L | | 102 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 2.05 | | mg/L | | 102 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 9.28 | | mg/L | | 93 | 90 - 110 | 0 | 15 |

Lab Sample ID: 660-123946-G-3 MS
Matrix: Water
Analysis Batch: 744301

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 23 | | 10.0 | 33.6 | | mg/L | | 102 | 80 - 120 |
| Fluoride | <0.040 | | 2.00 | 2.16 | | mg/L | | 108 | 80 - 120 |
| Sulfate | 1.2 | | 10.0 | 9.23 | | mg/L | | 80 | 80 - 120 |

Lab Sample ID: 660-123946-G-3 MSD
Matrix: Water
Analysis Batch: 744301

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 23 | | 10.0 | 33.6 | | mg/L | | 101 | 80 - 120 | 0 | 15 |
| Fluoride | <0.040 | | 2.00 | 2.11 | | mg/L | | 106 | 80 - 120 | 2 | 15 |
| Sulfate | 1.2 | | 10.0 | 9.28 | | mg/L | | 81 | 80 - 120 | 1 | 15 |

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-594662/1-A ^5
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/01/22 11:45 | 10/07/22 22:50 | 5 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 22:50 | 5 |
| Iron | <0.079 | | 0.63 | 0.079 | mg/L | | 10/01/22 11:45 | 10/07/22 22:50 | 5 |
| Boron | 0.00232 | J | 0.40 | 0.0012 | mg/L | | 10/01/22 11:45 | 10/07/22 22:50 | 5 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/01/22 11:45 | 10/07/22 22:50 | 5 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/01/22 11:45 | 10/07/22 22:50 | 5 |

Lab Sample ID: MB 400-594662/1-A ^5
Matrix: Water
Analysis Batch: 596288

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/01/22 11:45 | 10/13/22 20:57 | 5 |

Lab Sample ID: LCS 400-594662/2-A ^5
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.0500 | 0.0519 | | mg/L | | 104 | 80 - 120 |
| Arsenic | 0.0500 | 0.0486 | | mg/L | | 97 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: LCS 400-594662/2-A ^5
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Iron | 5.00 | 4.81 | | mg/L | | 96 | 80 - 120 |
| Boron | 0.100 | 0.0953 | J | mg/L | | 95 | 80 - 120 |
| Lead | 0.0500 | 0.0489 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: LCS 400-594662/2-A ^5
Matrix: Water
Analysis Batch: 596288

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chromium | 0.0500 | 0.0466 | | mg/L | | 93 | 80 - 120 |
| Lithium | 0.0500 | 0.0443 | | mg/L | | 89 | 80 - 120 |

Lab Sample ID: 680-221504-1 MS
Matrix: Water
Analysis Batch: 595577

Client Sample ID: MCM-18
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|-------|-------------|
| Antimony | <0.0015 | | 0.0500 | 0.0520 | | mg/L | | 104 | 75 - 125 |
| Arsenic | 0.0026 | J | 0.0500 | 0.0524 | | mg/L | | 100 | 75 - 125 |
| Iron | 34000 | | 5.00 | 37.9 | 4 | mg/L | | -6741 | 75 - 125 |
| Boron | 0.18 | J B | 0.100 | 0.283 | J | mg/L | | 103 | 75 - 125 |
| Chromium | <0.0010 | *- | 0.0500 | 0.0383 | | mg/L | | 77 | 75 - 125 |
| Lead | <0.00081 | | 0.0500 | 0.0496 | | mg/L | | 99 | 75 - 125 |

Lab Sample ID: 680-221504-1 MSD
Matrix: Water
Analysis Batch: 595577

Client Sample ID: MCM-18
Prep Type: Total Recoverable
Prep Batch: 594662

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|-------|-------------|-----|-----------|
| Antimony | <0.0015 | | 0.0500 | 0.0522 | | mg/L | | 104 | 75 - 125 | 0 | 20 |
| Arsenic | 0.0026 | J | 0.0500 | 0.0522 | | mg/L | | 99 | 75 - 125 | 0 | 20 |
| Iron | 34000 | | 5.00 | 37.6 | 4 | mg/L | | -6741 | 75 - 125 | 1 | 20 |
| Boron | 0.18 | J B | 0.100 | 0.276 | J | mg/L | | 96 | 75 - 125 | 2 | 20 |
| Chromium | <0.0010 | *- | 0.0500 | 0.0407 | | mg/L | | 81 | 75 - 125 | 6 | 20 |
| Lead | <0.00081 | | 0.0500 | 0.0499 | | mg/L | | 100 | 75 - 125 | 0 | 20 |

Lab Sample ID: MB 400-594690/1-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594690

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 21:46 | 5 |
| Boron | 0.155 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:46 | 5 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 21:46 | 5 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 21:46 | 5 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:46 | 5 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: LCS 400-594690/2-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594690

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec | |
|----------|-------------|------------|---------------|------|---|------|----------|--|
| | | | | | | | Limits | |
| Antimony | 0.0500 | 0.0496 | | mg/L | | 99 | 80 - 120 | |
| Chromium | 0.0500 | 0.0448 | | mg/L | | 90 | 80 - 120 | |
| Lead | 0.0500 | 0.0468 | | mg/L | | 94 | 80 - 120 | |
| Lithium | 0.0500 | 0.0441 | | mg/L | | 88 | 80 - 120 | |

Lab Sample ID: MB 400-594691/1-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.0015 | | 0.013 | 0.0015 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |
| Arsenic | <0.0012 | | 0.0063 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |
| Iron | <0.079 | | 0.63 | 0.079 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |
| Chromium | <0.0010 | | 0.013 | 0.0010 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |
| Lead | <0.00081 | | 0.0063 | 0.00081 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |
| Lithium | <0.0049 | | 0.025 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |

Lab Sample ID: MB 400-594691/1-A ^5
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|------|--------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Boron | 0.00156 | J | 0.40 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/07/22 21:11 | 5 |

Lab Sample ID: LCS 400-594691/2-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec | |
|----------|-------------|------------|---------------|------|---|------|----------|--|
| | | | | | | | Limits | |
| Antimony | 0.0500 | 0.0512 | | mg/L | | 102 | 80 - 120 | |
| Arsenic | 0.0500 | 0.0494 | | mg/L | | 99 | 80 - 120 | |
| Iron | 5.00 | 4.61 | | mg/L | | 92 | 80 - 120 | |
| Chromium | 0.0500 | 0.0482 | | mg/L | | 96 | 80 - 120 | |
| Lead | 0.0500 | 0.0467 | | mg/L | | 93 | 80 - 120 | |
| Lithium | 0.0500 | 0.0460 | | mg/L | | 92 | 80 - 120 | |

Lab Sample ID: LCS 400-594691/2-A ^5
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec | |
|---------|-------------|------------|---------------|------|---|------|----------|--|
| | | | | | | | Limits | |
| Boron | 0.100 | 0.0862 | J | mg/L | | 86 | 80 - 120 | |

Lab Sample ID: 680-221590-8 MS
Matrix: Water
Analysis Batch: 594928

Client Sample ID: MCM-14
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec | |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|--|
| | | | | | | | | | Limits | |
| Antimony | <0.0015 | | 0.0500 | 0.0525 | | mg/L | | 105 | 75 - 125 | |
| Iron | <79 | | 5.00 | 4.57 | 4 | mg/L | | 91 | 75 - 125 | |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: 680-221590-8 MS
Matrix: Water
Analysis Batch: 594928

Client Sample ID: MCM-14
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Boron | 1.0 | B | 0.100 | 1.21 | 4 | mg/L | | 178 | 75 - 125 |
| Chromium | 0.0015 | J | 0.0500 | 0.0482 | | mg/L | | 93 | 75 - 125 |
| Lead | <0.00081 | | 0.0500 | 0.0485 | | mg/L | | 97 | 75 - 125 |
| Lithium | 0.028 | | 0.0500 | 0.0755 | | mg/L | | 95 | 75 - 125 |

Lab Sample ID: 680-221590-8 MSD
Matrix: Water
Analysis Batch: 594928

Client Sample ID: MCM-14
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Antimony | <0.0015 | | 0.0500 | 0.0508 | | mg/L | | 102 | 75 - 125 | 3 | 20 |
| Iron | <79 | | 5.00 | 4.38 | 4 | mg/L | | 88 | 75 - 125 | 4 | 20 |
| Boron | 1.0 | B | 0.100 | 1.17 | 4 | mg/L | | 139 | 75 - 125 | 3 | 20 |
| Chromium | 0.0015 | J | 0.0500 | 0.0453 | | mg/L | | 88 | 75 - 125 | 6 | 20 |
| Lead | <0.00081 | | 0.0500 | 0.0468 | | mg/L | | 94 | 75 - 125 | 4 | 20 |
| Lithium | 0.028 | | 0.0500 | 0.0727 | | mg/L | | 90 | 75 - 125 | 4 | 20 |

Lab Sample ID: MB 680-741743/1-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741743

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|----------|------|---|----------------|----------------|---------|
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:18 | 09/23/22 20:38 | 1 |

Lab Sample ID: LCS 680-741743/2-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741743

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Barium | 0.100 | 0.0988 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 0.0500 | 0.0485 | | mg/L | | 97 | 80 - 120 |
| Cadmium | 0.0500 | 0.0487 | | mg/L | | 97 | 80 - 120 |
| Calcium | 5.00 | 5.05 | | mg/L | | 101 | 80 - 120 |
| Cobalt | 0.0500 | 0.0507 | | mg/L | | 101 | 80 - 120 |
| Iron | 5.00 | 5.10 | | mg/L | | 102 | 80 - 120 |
| Magnesium | 5.01 | 4.88 | | mg/L | | 97 | 80 - 120 |
| Molybdenum | 0.100 | 0.0984 | | mg/L | | 98 | 80 - 120 |
| Potassium | 6.97 | 7.16 | | mg/L | | 103 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: LCS 680-741743/2-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741743

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Selenium | 0.100 | 0.101 | | mg/L | | 101 | 80 - 120 |
| Sodium | 5.05 | 4.92 | | mg/L | | 97 | 80 - 120 |
| Thallium | 0.0500 | 0.0480 | | mg/L | | 96 | 80 - 120 |

Lab Sample ID: 680-221513-C-1-B MS
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 741743

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Barium | 0.022 | | 0.100 | 0.119 | | mg/L | | 98 | 75 - 125 |
| Beryllium | <0.00020 | | 0.0500 | 0.0559 | | mg/L | | 112 | 75 - 125 |
| Cadmium | <0.000078 | | 0.0500 | 0.0522 | | mg/L | | 104 | 75 - 125 |
| Calcium | 8.6 | | 5.00 | 13.5 | | mg/L | | 100 | 75 - 125 |
| Cobalt | <0.00022 | | 0.0500 | 0.0576 | | mg/L | | 115 | 75 - 125 |
| Iron | <0.026 | | 5.00 | 5.82 | | mg/L | | 116 | 75 - 125 |
| Magnesium | 3.1 | | 5.01 | 8.12 | | mg/L | | 99 | 75 - 125 |
| Molybdenum | <0.00086 | | 0.100 | 0.107 | | mg/L | | 107 | 75 - 125 |
| Potassium | 2.0 | | 6.97 | 9.84 | | mg/L | | 112 | 75 - 125 |
| Selenium | <0.0012 | | 0.100 | 0.108 | | mg/L | | 108 | 75 - 125 |
| Sodium | 7.5 | | 5.05 | 12.6 | | mg/L | | 101 | 75 - 125 |
| Thallium | <0.00026 | | 0.0500 | 0.0517 | | mg/L | | 103 | 75 - 125 |

Lab Sample ID: 680-221513-C-1-C MSD
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 741743

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Barium | 0.022 | | 0.100 | 0.114 | | mg/L | | 93 | 75 - 125 | 4 | 20 |
| Beryllium | <0.00020 | | 0.0500 | 0.0492 | | mg/L | | 98 | 75 - 125 | 13 | 20 |
| Cadmium | <0.000078 | | 0.0500 | 0.0493 | | mg/L | | 99 | 75 - 125 | 6 | 20 |
| Calcium | 8.6 | | 5.00 | 12.9 | | mg/L | | 87 | 75 - 125 | 5 | 20 |
| Cobalt | <0.00022 | | 0.0500 | 0.0551 | | mg/L | | 110 | 75 - 125 | 4 | 20 |
| Iron | <0.026 | | 5.00 | 5.54 | | mg/L | | 111 | 75 - 125 | 5 | 20 |
| Magnesium | 3.1 | | 5.01 | 7.55 | | mg/L | | 88 | 75 - 125 | 7 | 20 |
| Molybdenum | <0.00086 | | 0.100 | 0.103 | | mg/L | | 103 | 75 - 125 | 4 | 20 |
| Potassium | 2.0 | | 6.97 | 9.30 | | mg/L | | 104 | 75 - 125 | 6 | 20 |
| Selenium | <0.0012 | | 0.100 | 0.105 | | mg/L | | 105 | 75 - 125 | 3 | 20 |
| Sodium | 7.5 | | 5.05 | 12.0 | | mg/L | | 90 | 75 - 125 | 5 | 20 |
| Thallium | <0.00026 | | 0.0500 | 0.0501 | | mg/L | | 100 | 75 - 125 | 3 | 20 |

Lab Sample ID: MB 680-741757/1-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|----------|------|---|----------------|----------------|---------|
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: MB 680-741757/1-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/22/22 14:42 | 09/23/22 19:33 | 1 |

Lab Sample ID: LCS 680-741757/2-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Beryllium | 0.0500 | 0.0508 | | mg/L | | 102 | 80 - 120 |
| Cadmium | 0.0500 | 0.0494 | | mg/L | | 99 | 80 - 120 |
| Calcium | 5.00 | 5.16 | | mg/L | | 103 | 80 - 120 |
| Cobalt | 0.0500 | 0.0525 | | mg/L | | 105 | 80 - 120 |
| Iron | 5.00 | 5.23 | | mg/L | | 105 | 80 - 120 |
| Magnesium | 5.01 | 4.96 | | mg/L | | 99 | 80 - 120 |
| Molybdenum | 0.100 | 0.0989 | | mg/L | | 99 | 80 - 120 |
| Potassium | 6.97 | 7.34 | | mg/L | | 105 | 80 - 120 |
| Selenium | 0.100 | 0.101 | | mg/L | | 101 | 80 - 120 |
| Sodium | 5.05 | 5.02 | | mg/L | | 99 | 80 - 120 |
| Thallium | 0.0500 | 0.0488 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: 680-221504-1 MS
Matrix: Water
Analysis Batch: 741983

Client Sample ID: MCM-18
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| | | | | | | | | | |
| Beryllium | 0.0030 | | 0.0500 | 0.0559 | | mg/L | | 106 | 75 - 125 |
| Cadmium | 0.00078 | J | 0.0500 | 0.0508 | | mg/L | | 100 | 75 - 125 |
| Calcium | 20 | | 5.00 | 24.9 | | mg/L | | 102 | 75 - 125 |
| Cobalt | <0.00022 | | 0.0500 | 0.0517 | | mg/L | | 104 | 75 - 125 |
| Iron | 32 | | 5.00 | 37.4 | 4 | mg/L | | 98 | 75 - 125 |
| Magnesium | 62 | | 5.01 | 65.9 | 4 | mg/L | | 70 | 75 - 125 |
| Molybdenum | <0.00086 | | 0.100 | 0.103 | | mg/L | | 103 | 75 - 125 |
| Potassium | 9.0 | | 6.97 | 15.9 | | mg/L | | 100 | 75 - 125 |
| Selenium | <0.0012 | | 0.100 | 0.102 | | mg/L | | 102 | 75 - 125 |
| Thallium | <0.00026 | | 0.0500 | 0.0478 | | mg/L | | 96 | 75 - 125 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: 680-221504-1 MS
Matrix: Water
Analysis Batch: 742343

Client Sample ID: MCM-18
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sodium | 690 | | 5.05 | 645 | 4 | mg/L | | -830 | 75 - 125 |

Lab Sample ID: 680-221504-1 MSD
Matrix: Water
Analysis Batch: 741983

Client Sample ID: MCM-18
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Barium | 0.11 | | 0.100 | 0.206 | | mg/L | | 93 | 75 - 125 | 4 | 20 |
| Beryllium | 0.0030 | | 0.0500 | 0.0528 | | mg/L | | 100 | 75 - 125 | 6 | 20 |
| Cadmium | 0.00078 | J | 0.0500 | 0.0491 | | mg/L | | 97 | 75 - 125 | 3 | 20 |
| Calcium | 20 | | 5.00 | 23.6 | | mg/L | | 76 | 75 - 125 | 5 | 20 |
| Cobalt | <0.00022 | | 0.0500 | 0.0493 | | mg/L | | 99 | 75 - 125 | 5 | 20 |
| Iron | 32 | | 5.00 | 35.1 | 4 | mg/L | | 53 | 75 - 125 | 6 | 20 |
| Magnesium | 62 | | 5.01 | 63.7 | 4 | mg/L | | 24 | 75 - 125 | 3 | 20 |
| Molybdenum | <0.00086 | | 0.100 | 0.0982 | | mg/L | | 98 | 75 - 125 | 4 | 20 |
| Potassium | 9.0 | | 6.97 | 15.2 | | mg/L | | 90 | 75 - 125 | 5 | 20 |
| Selenium | <0.0012 | | 0.100 | 0.0978 | | mg/L | | 98 | 75 - 125 | 4 | 20 |
| Thallium | <0.00026 | | 0.0500 | 0.0464 | | mg/L | | 93 | 75 - 125 | 3 | 20 |

Lab Sample ID: 680-221504-1 MSD
Matrix: Water
Analysis Batch: 742343

Client Sample ID: MCM-18
Prep Type: Total Recoverable
Prep Batch: 741757

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Sodium | 690 | | 5.05 | 659 | 4 | mg/L | | -551 | 75 - 125 | 2 | 20 |

Lab Sample ID: MB 680-741803/1-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741803

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 05:58 | 09/24/22 02:23 | 1 |

Lab Sample ID: LCS 680-741803/2-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741803

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------|-------------|------------|---------------|------|---|------|-------------|
| Iron, Dissolved | 5.00 | 5.84 | | mg/L | | 117 | 80 - 120 |

Lab Sample ID: MB 680-741808/1-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|----------|------|---|----------------|----------------|---------|
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: MB 680-741808/1-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/23/22 07:50 | 09/24/22 03:20 | 1 |

Lab Sample ID: MB 680-741808/1-A
Matrix: Water
Analysis Batch: 742343

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/23/22 07:50 | 09/26/22 17:05 | 1 |

Lab Sample ID: LCS 680-741808/2-A
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | |
|------------|-------------|------------|---------------|------|---|------|-------------|--|
| | | | | | | | | |
| Barium | 0.100 | 0.101 | | mg/L | | 101 | 80 - 120 | |
| Beryllium | 0.0500 | 0.0516 | | mg/L | | 103 | 80 - 120 | |
| Cadmium | 0.0500 | 0.0501 | | mg/L | | 100 | 80 - 120 | |
| Calcium | 5.00 | 5.15 | | mg/L | | 103 | 80 - 120 | |
| Cobalt | 0.0500 | 0.0531 | | mg/L | | 106 | 80 - 120 | |
| Iron | 5.00 | 5.32 | | mg/L | | 106 | 80 - 120 | |
| Molybdenum | 0.100 | 0.103 | | mg/L | | 103 | 80 - 120 | |
| Potassium | 6.97 | 7.15 | | mg/L | | 103 | 80 - 120 | |
| Selenium | 0.100 | 0.106 | | mg/L | | 106 | 80 - 120 | |
| Sodium | 5.05 | 4.90 | | mg/L | | 97 | 80 - 120 | |
| Thallium | 0.0500 | 0.0497 | | mg/L | | 99 | 80 - 120 | |

Lab Sample ID: LCS 680-741808/2-A
Matrix: Water
Analysis Batch: 742343

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Magnesium | 5.01 | 5.16 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: 680-221525-C-1-B MS
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--|
| | | | | | | | | | | |
| Barium | 0.20 | | 0.100 | 0.289 | | mg/L | | 92 | 75 - 125 | |
| Beryllium | <0.00020 | | 0.0500 | 0.0498 | | mg/L | | 100 | 75 - 125 | |
| Cadmium | <0.000078 | | 0.0500 | 0.0493 | | mg/L | | 99 | 75 - 125 | |
| Calcium | 87 | | 5.00 | 88.5 | 4 | mg/L | | 37 | 75 - 125 | |
| Cobalt | 0.0022 | J | 0.0500 | 0.0538 | | mg/L | | 103 | 75 - 125 | |
| Iron | 5.6 | | 5.00 | 11.1 | | mg/L | | 110 | 75 - 125 | |
| Molybdenum | 0.0061 | J | 0.100 | 0.105 | | mg/L | | 98 | 75 - 125 | |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: 680-221525-C-1-B MS
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Potassium | 3.0 | | 6.97 | 10.2 | | mg/L | | 103 | 75 - 125 |
| Selenium | <0.0012 | | 0.100 | 0.100 | | mg/L | | 100 | 75 - 125 |
| Sodium | 19 | | 5.05 | 24.6 | | mg/L | | 101 | 75 - 125 |
| Thallium | <0.00026 | | 0.0500 | 0.0472 | | mg/L | | 94 | 75 - 125 |

Lab Sample ID: 680-221525-C-1-B MS
Matrix: Water
Analysis Batch: 742343

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Magnesium | 33 | | 5.01 | 36.4 | 4 | mg/L | | 72 | 75 - 125 |

Lab Sample ID: 680-221525-C-1-C MSD
Matrix: Water
Analysis Batch: 741983

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Barium | 0.20 | | 0.100 | 0.280 | | mg/L | | 83 | 75 - 125 | 3 | 20 |
| Beryllium | <0.00020 | | 0.0500 | 0.0487 | | mg/L | | 97 | 75 - 125 | 2 | 20 |
| Cadmium | <0.000078 | | 0.0500 | 0.0453 | | mg/L | | 91 | 75 - 125 | 8 | 20 |
| Calcium | 87 | | 5.00 | 85.4 | 4 | mg/L | | -25 | 75 - 125 | 4 | 20 |
| Cobalt | 0.0022 | J | 0.0500 | 0.0515 | | mg/L | | 99 | 75 - 125 | 4 | 20 |
| Iron | 5.6 | | 5.00 | 10.6 | | mg/L | | 100 | 75 - 125 | 5 | 20 |
| Molybdenum | 0.0061 | J | 0.100 | 0.101 | | mg/L | | 95 | 75 - 125 | 4 | 20 |
| Potassium | 3.0 | | 6.97 | 9.84 | | mg/L | | 98 | 75 - 125 | 3 | 20 |
| Selenium | <0.0012 | | 0.100 | 0.0979 | | mg/L | | 98 | 75 - 125 | 2 | 20 |
| Sodium | 19 | | 5.05 | 23.6 | | mg/L | | 82 | 75 - 125 | 4 | 20 |
| Thallium | <0.00026 | | 0.0500 | 0.0459 | | mg/L | | 92 | 75 - 125 | 3 | 20 |

Lab Sample ID: 680-221525-C-1-C MSD
Matrix: Water
Analysis Batch: 742343

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 741808

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Magnesium | 33 | | 5.01 | 34.9 | 4 | mg/L | | 40 | 75 - 125 | 4 | 20 |

Lab Sample ID: MB 680-742309/1-A
Matrix: Water
Analysis Batch: 742503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|----------|------|---|----------------|----------------|---------|
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: MB 680-742309/1-A
Matrix: Water
Analysis Batch: 742503

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/27/22 06:03 | 09/27/22 23:02 | 1 |

Lab Sample ID: LCS 680-742309/2-A
Matrix: Water
Analysis Batch: 742503

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Barium | 0.100 | 0.103 | | mg/L | | 103 | 80 - 120 |
| Beryllium | 0.0500 | 0.0486 | | mg/L | | 97 | 80 - 120 |
| Cadmium | 0.0500 | 0.0532 | | mg/L | | 106 | 80 - 120 |
| Calcium | 5.00 | 5.30 | | mg/L | | 106 | 80 - 120 |
| Cobalt | 0.0500 | 0.0529 | | mg/L | | 106 | 80 - 120 |
| Iron | 5.00 | 5.48 | | mg/L | | 110 | 80 - 120 |
| Magnesium | 5.01 | 5.29 | | mg/L | | 106 | 80 - 120 |
| Molybdenum | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |
| Potassium | 6.97 | 7.29 | | mg/L | | 105 | 80 - 120 |
| Selenium | 0.100 | 0.108 | | mg/L | | 108 | 80 - 120 |
| Sodium | 5.05 | 5.13 | | mg/L | | 102 | 80 - 120 |
| Thallium | 0.0500 | 0.0517 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: 680-221590-4 MS
Matrix: Water
Analysis Batch: 742503

Client Sample ID: MCM-05
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Barium | 0.014 | | 0.100 | 0.113 | | mg/L | | 99 | 75 - 125 |
| Beryllium | <0.00020 | | 0.0500 | 0.0455 | | mg/L | | 91 | 75 - 125 |
| Cadmium | <0.000078 | | 0.0500 | 0.0498 | | mg/L | | 100 | 75 - 125 |
| Calcium | 28 | | 5.00 | 34.3 | 4 | mg/L | | 118 | 75 - 125 |
| Cobalt | 0.00026 | J | 0.0500 | 0.0490 | | mg/L | | 98 | 75 - 125 |
| Iron | <0.026 | | 5.00 | 4.99 | | mg/L | | 100 | 75 - 125 |
| Magnesium | 60 | | 5.01 | 63.6 | 4 | mg/L | | 80 | 75 - 125 |
| Molybdenum | 0.00095 | J | 0.100 | 0.0995 | | mg/L | | 99 | 75 - 125 |
| Potassium | 33 | | 6.97 | 38.4 | 4 | mg/L | | 85 | 75 - 125 |
| Selenium | <0.0012 | F1 | 0.100 | 0.0507 | F1 | mg/L | | 51 | 75 - 125 |
| Thallium | <0.00026 | | 0.0500 | 0.0506 | | mg/L | | 101 | 75 - 125 |

Lab Sample ID: 680-221590-4 MS
Matrix: Water
Analysis Batch: 742780

Client Sample ID: MCM-05
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sodium | 620 | | 5.05 | 658 | 4 | mg/L | | 814 | 75 - 125 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: 680-221590-4 MSD
Matrix: Water
Analysis Batch: 742503

Client Sample ID: MCM-05
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|------------|-----------|-----------|--------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Barium | 0.014 | | 0.100 | 0.114 | | mg/L | | 100 | 75 - 125 | 0 | 20 |
| Beryllium | <0.00020 | | 0.0500 | 0.0459 | | mg/L | | 92 | 75 - 125 | 1 | 20 |
| Cadmium | <0.000078 | | 0.0500 | 0.0498 | | mg/L | | 100 | 75 - 125 | 0 | 20 |
| Calcium | 28 | | 5.00 | 34.7 | 4 | mg/L | | 126 | 75 - 125 | 1 | 20 |
| Cobalt | 0.00026 | J | 0.0500 | 0.0493 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Iron | <0.026 | | 5.00 | 5.20 | | mg/L | | 104 | 75 - 125 | 4 | 20 |
| Magnesium | 60 | | 5.01 | 65.6 | 4 | mg/L | | 119 | 75 - 125 | 3 | 20 |
| Molybdenum | 0.00095 | J | 0.100 | 0.100 | | mg/L | | 99 | 75 - 125 | 1 | 20 |
| Potassium | 33 | | 6.97 | 39.4 | 4 | mg/L | | 98 | 75 - 125 | 2 | 20 |
| Selenium | <0.0012 | F1 | 0.100 | 0.0492 | F1 | mg/L | | 49 | 75 - 125 | 3 | 20 |
| Thallium | <0.00026 | | 0.0500 | 0.0508 | | mg/L | | 102 | 75 - 125 | 0 | 20 |

Lab Sample ID: 680-221590-4 MSD
Matrix: Water
Analysis Batch: 742780

Client Sample ID: MCM-05
Prep Type: Total Recoverable
Prep Batch: 742309

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Sodium | 620 | | 5.05 | 597 | 4 | mg/L | | -398 | 75 - 125 | 10 | 20 |

Lab Sample ID: MB 680-742784/1-A
Matrix: Water
Analysis Batch: 743044

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742784

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Barium | <0.00089 | | 0.010 | 0.00089 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Beryllium | <0.00020 | | 0.0025 | 0.00020 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Cadmium | <0.000078 | | 0.0025 | 0.000078 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Calcium | <0.14 | | 0.50 | 0.14 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Cobalt | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Iron | <0.026 | | 0.10 | 0.026 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Magnesium | <0.023 | | 0.50 | 0.023 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Molybdenum | <0.00086 | | 0.015 | 0.00086 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Potassium | <0.16 | | 1.0 | 0.16 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Selenium | <0.0012 | | 0.0050 | 0.0012 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Sodium | <0.20 | | 0.50 | 0.20 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |
| Thallium | <0.00026 | | 0.0010 | 0.00026 | mg/L | | 09/29/22 10:24 | 09/30/22 17:08 | 1 |

Lab Sample ID: LCS 680-742784/2-A
Matrix: Water
Analysis Batch: 743044

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742784

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec |
|-----------|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | Limits |
| Barium | 0.100 | 0.101 | | mg/L | | 101 | 80 - 120 |
| Beryllium | 0.0500 | 0.0530 | | mg/L | | 106 | 80 - 120 |
| Cadmium | 0.0500 | 0.0523 | | mg/L | | 105 | 80 - 120 |
| Calcium | 5.00 | 5.29 | | mg/L | | 106 | 80 - 120 |
| Cobalt | 0.0500 | 0.0539 | | mg/L | | 108 | 80 - 120 |
| Iron | 5.00 | 5.35 | | mg/L | | 107 | 80 - 120 |
| Magnesium | 5.01 | 5.45 | | mg/L | | 109 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: LCS 680-742784/2-A
Matrix: Water
Analysis Batch: 743044

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742784

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Molybdenum | 0.100 | 0.104 | | mg/L | | 104 | 80 - 120 |
| Potassium | 6.97 | 7.61 | | mg/L | | 109 | 80 - 120 |
| Selenium | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |
| Sodium | 5.05 | 5.40 | | mg/L | | 107 | 80 - 120 |
| Thallium | 0.0500 | 0.0514 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: 680-221820-C-3-E MS
Matrix: Water
Analysis Batch: 743044

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 742784

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Barium | 0.24 | | 0.100 | 0.325 | | mg/L | | 87 | 75 - 125 |
| Beryllium | <0.00020 | | 0.0500 | 0.0563 | | mg/L | | 113 | 75 - 125 |
| Cadmium | <0.000078 | | 0.0500 | 0.0526 | | mg/L | | 105 | 75 - 125 |
| Calcium | 130 | | 5.00 | 124 | 4 | mg/L | | -74 | 75 - 125 |
| Cobalt | 0.00037 | J | 0.0500 | 0.0540 | | mg/L | | 107 | 75 - 125 |
| Iron | 1.5 | | 5.00 | 6.51 | | mg/L | | 101 | 75 - 125 |
| Magnesium | 47 | | 5.01 | 48.9 | 4 | mg/L | | 38 | 75 - 125 |
| Molybdenum | 0.0022 | J | 0.100 | 0.108 | | mg/L | | 106 | 75 - 125 |
| Potassium | 1.7 | | 6.97 | 9.07 | | mg/L | | 106 | 75 - 125 |
| Selenium | <0.0012 | | 0.100 | 0.104 | | mg/L | | 103 | 75 - 125 |
| Sodium | 25 | | 5.05 | 29.0 | 4 | mg/L | | 75 | 75 - 125 |
| Thallium | <0.00026 | | 0.0500 | 0.0544 | | mg/L | | 109 | 75 - 125 |

Lab Sample ID: 680-221820-C-3-F MSD
Matrix: Water
Analysis Batch: 743044

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 742784

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Barium | 0.24 | | 0.100 | 0.342 | | mg/L | | 104 | 75 - 125 | 5 | 20 |
| Beryllium | <0.00020 | | 0.0500 | 0.0581 | | mg/L | | 116 | 75 - 125 | 3 | 20 |
| Cadmium | <0.000078 | | 0.0500 | 0.0545 | | mg/L | | 109 | 75 - 125 | 4 | 20 |
| Calcium | 130 | | 5.00 | 133 | 4 | mg/L | | 96 | 75 - 125 | 7 | 20 |
| Cobalt | 0.00037 | J | 0.0500 | 0.0549 | | mg/L | | 109 | 75 - 125 | 2 | 20 |
| Iron | 1.5 | | 5.00 | 6.62 | | mg/L | | 103 | 75 - 125 | 2 | 20 |
| Magnesium | 47 | | 5.01 | 51.0 | 4 | mg/L | | 81 | 75 - 125 | 4 | 20 |
| Molybdenum | 0.0022 | J | 0.100 | 0.112 | | mg/L | | 110 | 75 - 125 | 3 | 20 |
| Potassium | 1.7 | | 6.97 | 9.17 | | mg/L | | 107 | 75 - 125 | 1 | 20 |
| Selenium | <0.0012 | | 0.100 | 0.108 | | mg/L | | 107 | 75 - 125 | 4 | 20 |
| Sodium | 25 | | 5.05 | 29.8 | 4 | mg/L | | 92 | 75 - 125 | 3 | 20 |
| Thallium | <0.00026 | | 0.0500 | 0.0543 | | mg/L | | 109 | 75 - 125 | 0 | 20 |

Lab Sample ID: 400-226578-B-23-E MS
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 594690

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Antimony | <0.0015 | | 0.0500 | 0.0522 | | mg/L | | 104 | 75 - 125 |
| Arsenic | 0.041 | | 0.0500 | 0.0914 | | mg/L | | 102 | 75 - 125 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: 400-226578-B-23-E MS
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 594690

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|-----------------------|-------------|-----------|--------------|------|---|------|-------------|
| Boron | 0.15 | J B ** ^+ ^2 F1 F2 | 0.100 | 0.240 | J ^+ | mg/L | | 86 | 75 - 125 |
| Chromium | <0.0010 | | 0.0500 | 0.0487 | | mg/L | | 97 | 75 - 125 |
| Lead | <0.00081 | | 0.0500 | 0.0490 | | mg/L | | 98 | 75 - 125 |
| Lithium | <0.0049 | | 0.0500 | 0.0464 | | mg/L | | 93 | 75 - 125 |

Lab Sample ID: 400-226578-B-23-F MSD
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 594690

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|-----------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Antimony | <0.0015 | | 0.0500 | 0.0506 | | mg/L | | 101 | 75 - 125 | 3 | 20 |
| Arsenic | 0.041 | | 0.0500 | 0.0854 | | mg/L | | 90 | 75 - 125 | 7 | 20 |
| Boron | 0.15 | J B ** ^+ ^2 F1 F2 | 0.100 | 0.188 | J F1 F2 | mg/L | | 34 | 75 - 125 | 24 | 20 |
| Chromium | <0.0010 | | 0.0500 | 0.0479 | | mg/L | | 96 | 75 - 125 | 2 | 20 |
| Lead | <0.00081 | | 0.0500 | 0.0484 | | mg/L | | 97 | 75 - 125 | 1 | 20 |
| Lithium | <0.0049 | | 0.0500 | 0.0469 | | mg/L | | 94 | 75 - 125 | 1 | 20 |

Lab Sample ID: 680-221504-6 MS
Matrix: Water
Analysis Batch: 741983

Client Sample ID: MCM-06
Prep Type: Dissolved
Prep Batch: 741803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Iron, Dissolved | <0.026 | | 5.00 | 5.04 | | mg/L | | 101 | 75 - 125 |

Lab Sample ID: 680-221504-6 MSD
Matrix: Water
Analysis Batch: 741983

Client Sample ID: MCM-06
Prep Type: Dissolved
Prep Batch: 741803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Iron, Dissolved | <0.026 | | 5.00 | 5.35 | | mg/L | | 107 | 75 - 125 | 6 | 20 |

Lab Sample ID: MB 680-742387/9-B
Matrix: Water
Analysis Batch: 742906

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 742388

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Iron, Dissolved | <0.026 | | 0.10 | 0.026 | mg/L | | 09/27/22 11:35 | 09/29/22 17:40 | 1 |

Lab Sample ID: LCS 680-742387/10-B
Matrix: Water
Analysis Batch: 742906

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 742388

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------|-------------|------------|---------------|------|---|------|-------------|
| Iron, Dissolved | 5.00 | 5.34 | | mg/L | | 107 | 80 - 120 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

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

Lab Sample ID: 680-221590-15 MS
Matrix: Water
Analysis Batch: 742906

Client Sample ID: PT-04D
Prep Type: Dissolved
Prep Batch: 742388

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Iron, Dissolved | <0.026 | | 5.00 | 5.10 | | mg/L | | 102 | 75 - 125 |

Lab Sample ID: 680-221590-15 MSD
Matrix: Water
Analysis Batch: 742906

Client Sample ID: PT-04D
Prep Type: Dissolved
Prep Batch: 742388

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Iron, Dissolved | <0.026 | | 5.00 | 5.05 | | mg/L | | 101 | 75 - 125 | 1 | 20 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-742335/1-A
Matrix: Water
Analysis Batch: 742459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742335

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/27/22 08:00 | 09/27/22 15:25 | 1 |

Lab Sample ID: LCS 680-742335/2-A
Matrix: Water
Analysis Batch: 742459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742335

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250 | 0.00242 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: 660-123999-H-1-D MS
Matrix: Water
Analysis Batch: 742459

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 742335

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | <0.000080 | | 0.00100 | 0.000918 | | mg/L | | 92 | 80 - 120 |

Lab Sample ID: 660-123999-H-1-E MSD
Matrix: Water
Analysis Batch: 742459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 742335

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.000080 | | 0.00100 | 0.000940 | | mg/L | | 94 | 80 - 120 | 2 | 20 |

Lab Sample ID: MB 680-742786/1-A
Matrix: Water
Analysis Batch: 743020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742786

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 | | 0.00020 | 0.000080 | mg/L | | 09/29/22 10:35 | 09/30/22 10:26 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-742786/2-A
Matrix: Water
Analysis Batch: 743020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742786

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250 | 0.00242 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: 680-221747-A-11-D MS
Matrix: Water
Analysis Batch: 743020

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 742786

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | 0.000082 | J F1 | 0.00100 | 0.000378 | F1 | mg/L | | 30 | 80 - 120 |

Lab Sample ID: 680-221747-A-11-E MSD
Matrix: Water
Analysis Batch: 743020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 742786

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Mercury | 0.000082 | J F1 | 0.00100 | 0.000371 | F1 | mg/L | | 29 | 80 - 120 | 2 | 20 |

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

Lab Sample ID: MB 180-420635/1-A
Matrix: Water
Analysis Batch: 420993

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 420635

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Lithium | <0.00083 | | 0.0050 | 0.00083 | mg/L | | 12/13/22 14:00 | 12/15/22 12:28 | 1 |

Lab Sample ID: LCS 180-420635/2-A
Matrix: Water
Analysis Batch: 420993

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 420635

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Lithium | 0.500 | 0.483 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: 180-148538-F-1-B MS
Matrix: Water
Analysis Batch: 420993

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 420635

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Lithium | 0.064 | | 0.500 | 0.550 | | mg/L | | 97 | 75 - 125 |

Lab Sample ID: 180-148538-F-1-C MSD
Matrix: Water
Analysis Batch: 420993

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 420635

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Lithium | 0.064 | | 0.500 | 0.537 | | mg/L | | 95 | 75 - 125 | 2 | 20 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-742373/4
Matrix: Water
Analysis Batch: 742373

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/26/22 13:35 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 13:35 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/26/22 13:35 | 1 |

Lab Sample ID: LCS 680-742373/6
Matrix: Water
Analysis Batch: 742373

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 250 | | mg/L | | 100 | 90 - 112 |

Lab Sample ID: LCSD 680-742373/31
Matrix: Water
Analysis Batch: 742373

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 |
|-------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 245 | | mg/L | | 98 | 90 - 112 | 2 | 30 |

Lab Sample ID: 680-221504-2 DU
Matrix: Water
Analysis Batch: 742373

Client Sample ID: MCM-19
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 29 | | 28.9 | | mg/L | | 0.3 | 30 |
| Bicarbonate Alkalinity as CaCO3 | 29 | | 28.9 | | mg/L | | 0.3 | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Lab Sample ID: MB 680-742597/4
Matrix: Water
Analysis Batch: 742597

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/27/22 18:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 18:23 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 18:23 | 1 |

Lab Sample ID: LCS 680-742597/6
Matrix: Water
Analysis Batch: 742597

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 247 | | mg/L | | 99 | 90 - 112 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-742597/31
Matrix: Water
Analysis Batch: 742597

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 |
|-------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 244 | | mg/L | | 98 | 90 - 112 | 1 | 30 |

Lab Sample ID: 680-221504-5 DU
Matrix: Water
Analysis Batch: 742597

Client Sample ID: EB-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | <2.2 | | mg/L | | NC | 30 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Lab Sample ID: 680-221590-5 DU
Matrix: Water
Analysis Batch: 742597

Client Sample ID: MCM-07
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 300 | | 293 | | mg/L | | 1 | 30 |
| Bicarbonate Alkalinity as CaCO3 | 300 | | 293 | | mg/L | | 1 | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-741871/1
Matrix: Water
Analysis Batch: 741871

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 09/23/22 10:39 | 1 |

Lab Sample ID: LCS 680-741871/2
Matrix: Water
Analysis Batch: 741871

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2420 | 2480 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: LCSD 680-741871/3
Matrix: Water
Analysis Batch: 741871

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2420 | 2420 | | mg/L | | 100 | 80 - 120 | 3 | 25 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-221381-H-1 DU
Matrix: Water
Analysis Batch: 741871

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 150 | | 128 | F5 | mg/L | | 13 | 5 |

Lab Sample ID: 680-221395-B-1 DU
Matrix: Water
Analysis Batch: 741871

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 650 | | 630 | | mg/L | | 4 | 5 |

Lab Sample ID: MB 680-742241/1
Matrix: Water
Analysis Batch: 742241

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 09/26/22 13:05 | 1 |

Lab Sample ID: LCS 680-742241/2
Matrix: Water
Analysis Batch: 742241

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2420 | 2450 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: LCSD 680-742241/3
Matrix: Water
Analysis Batch: 742241

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2420 | 2430 | | mg/L | | 100 | 80 - 120 | 1 | 25 |

Lab Sample ID: 680-221557-A-1 DU
Matrix: Water
Analysis Batch: 742241

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 160 | | 146 | F5 | mg/L | | 12 | 5 |

Lab Sample ID: 680-221564-A-1 DU
Matrix: Water
Analysis Batch: 742241

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 240 | | 244 | | mg/L | | 0.8 | 5 |

Lab Sample ID: MB 680-742396/1
Matrix: Water
Analysis Batch: 742396

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LCS 680-742396/2
Matrix: Water
Analysis Batch: 742396

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2420 | 2440 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: LCSD 680-742396/3
Matrix: Water
Analysis Batch: 742396

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2420 | 2410 | | mg/L | | 100 | 80 - 120 | 1 | 25 |

Lab Sample ID: 680-221590-4 DU
Matrix: Water
Analysis Batch: 742396

Client Sample ID: MCM-05
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 2100 | | 2010 | | mg/L | | 3 | 5 |

Lab Sample ID: 680-221590-7 DU
Matrix: Water
Analysis Batch: 742396

Client Sample ID: MCM-12
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 1300 | | 1270 | | mg/L | | 0.2 | 5 |

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-742189/1
Matrix: Water
Analysis Batch: 742189

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 | | | 09/26/22 10:21 | 1 |

Lab Sample ID: LCS 680-742189/2
Matrix: Water
Analysis Batch: 742189

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 | 10.4 | | mg/L | | 104 | 75 - 125 |

Lab Sample ID: LCSD 680-742189/3
Matrix: Water
Analysis Batch: 742189

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 | 9.82 | | mg/L | | 98 | 75 - 125 | 5 | 30 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: 680-221504-6 MS
Matrix: Water
Analysis Batch: 742189

Client Sample ID: MCM-06
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sulfide | 20 | F1 | 6.94 | 22.0 | F1 | mg/L | | 27 | 75 - 125 |

Lab Sample ID: 680-221504-6 MSD
Matrix: Water
Analysis Batch: 742189

Client Sample ID: 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 | 20 | F1 | 6.94 | 22.0 | F1 | mg/L | | 27 | 75 - 125 | 0 | 30 |

Lab Sample ID: 400-226324-D-4 DU
Matrix: Water
Analysis Batch: 742189

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Sulfide | 6.3 | | 5.86 | | mg/L | | 8 | 30 |

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

HPLC/IC

Analysis Batch: 743228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221504-1 | MCM-18 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-2 | MCM-19 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-3 | DUP-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-4 | FB-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-5 | EB-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-6 | MCM-06 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-7 | MCM-20 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-743228/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-743228/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-743228/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221244-A-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221244-AS-3 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 743856

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221504-8 | DPZ-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-9 | PT-01 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-10 | PT-02 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-11 | PT-03 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221504-13 | DR-02 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-743856/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-743856/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-743856/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221851-C-8 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221851-C-8 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 743937

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221504-12 | DR-01 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-743937/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-743937/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-743937/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 190-29941-A-5 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 190-29941-A-5 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744183

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------------|------------|
| 680-221590-1 | MCM-01 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-2 | MCM-02 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-3 | MCM-04 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-4 | MCM-05 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-5 | MCM-07 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-6 | MCM-11 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-7 | MCM-12 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-8 | MCM-14 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-9 | MCM-15 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-10 | MCM-16 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-11 | MCM-17 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-12 | DUP-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-13 | FB-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-14 | EB-2 | Total/NA | Water | 300.0-1993 R2.1 | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

HPLC/IC (Continued)

Analysis Batch: 744183 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221590-15 | PT-04D | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744183/41 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744183/42 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744183/43 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 190-29943-A-8 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 190-29943-A-8 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-10 MS | MCM-16 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-10 MSD | MCM-16 | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744301

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221590-4 | MCM-05 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-5 | MCM-07 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-8 | MCM-14 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-11 | MCM-17 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-15 | PT-04D | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744301/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744301/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744301/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 660-123946-G-3 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 660-123946-G-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |

Metals

Prep Batch: 420635

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 3005A | |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 3005A | |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 3005A | |
| MB 180-420635/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-420635/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-148538-F-1-B MS | Matrix Spike | Dissolved | Water | 3005A | |
| 180-148538-F-1-C MSD | Matrix Spike Duplicate | Dissolved | Water | 3005A | |

Analysis Batch: 420993

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|-----------|------------|
| 680-221504-3 | DUP-1 | Total Recoverable | Water | EPA 6020B | 420635 |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | EPA 6020B | 420635 |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | EPA 6020B | 420635 |
| MB 180-420635/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 420635 |
| LCS 180-420635/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 420635 |
| 180-148538-F-1-B MS | Matrix Spike | Dissolved | Water | EPA 6020B | 420635 |
| 180-148538-F-1-C MSD | Matrix Spike Duplicate | Dissolved | Water | EPA 6020B | 420635 |

Prep Batch: 594662

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total Recoverable | Water | 3005A | |
| 680-221504-2 | MCM-19 | Total Recoverable | Water | 3005A | |
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 3005A | |
| 680-221504-4 | FB-1 | Total Recoverable | Water | 3005A | |
| 680-221504-5 | EB-1 | Total Recoverable | Water | 3005A | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals (Continued)

Prep Batch: 594662 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 3005A | |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 3005A | |
| 680-221504-8 | DPZ-2 | Total Recoverable | Water | 3005A | |
| 680-221504-9 | PT-01 | Total Recoverable | Water | 3005A | |
| 680-221504-10 | PT-02 | Total Recoverable | Water | 3005A | |
| 680-221504-11 | PT-03 | Total Recoverable | Water | 3005A | |
| 680-221504-12 | DR-01 | Total Recoverable | Water | 3005A | |
| 680-221504-13 | DR-02 | Total Recoverable | Water | 3005A | |
| MB 400-594662/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-594662/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221504-1 MS | MCM-18 | Total Recoverable | Water | 3005A | |
| 680-221504-1 MSD | MCM-18 | Total Recoverable | Water | 3005A | |

Prep Batch: 594690

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221590-1 | MCM-01 | Total Recoverable | Water | 3005A | |
| 680-221590-2 | MCM-02 | Total Recoverable | Water | 3005A | |
| 680-221590-3 | MCM-04 | Total Recoverable | Water | 3005A | |
| 680-221590-4 | MCM-05 | Total Recoverable | Water | 3005A | |
| 680-221590-5 | MCM-07 | Total Recoverable | Water | 3005A | |
| 680-221590-6 | MCM-11 | Total Recoverable | Water | 3005A | |
| MB 400-594690/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-594690/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 400-226578-B-23-E MS | Matrix Spike | Dissolved | Water | 3005A | |
| 400-226578-B-23-F MSD | Matrix Spike Duplicate | Dissolved | Water | 3005A | |

Prep Batch: 594691

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221590-7 | MCM-12 | Total Recoverable | Water | 3005A | |
| 680-221590-8 | MCM-14 | Total Recoverable | Water | 3005A | |
| 680-221590-9 | MCM-15 | Total Recoverable | Water | 3005A | |
| 680-221590-10 | MCM-16 | Total Recoverable | Water | 3005A | |
| 680-221590-11 | MCM-17 | Total Recoverable | Water | 3005A | |
| 680-221590-12 | DUP-2 | Total Recoverable | Water | 3005A | |
| 680-221590-13 | FB-2 | Total Recoverable | Water | 3005A | |
| 680-221590-14 | EB-2 | Total Recoverable | Water | 3005A | |
| 680-221590-15 | PT-04D | Total Recoverable | Water | 3005A | |
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-594691/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221590-8 MS | MCM-14 | Total Recoverable | Water | 3005A | |
| 680-221590-8 MSD | MCM-14 | Total Recoverable | Water | 3005A | |

Analysis Batch: 594928

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-221590-1 | MCM-01 | Total Recoverable | Water | 6020B | 594690 |
| 680-221590-2 | MCM-02 | Total Recoverable | Water | 6020B | 594690 |
| 680-221590-3 | MCM-04 | Total Recoverable | Water | 6020B | 594690 |
| 680-221590-4 | MCM-05 | Total Recoverable | Water | 6020B | 594690 |
| 680-221590-5 | MCM-07 | Total Recoverable | Water | 6020B | 594690 |
| 680-221590-6 | MCM-11 | Total Recoverable | Water | 6020B | 594690 |
| 680-221590-7 | MCM-12 | Total Recoverable | Water | 6020B | 594691 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals (Continued)

Analysis Batch: 594928 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221590-8 | MCM-14 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-9 | MCM-15 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-10 | MCM-16 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-11 | MCM-17 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-12 | DUP-2 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-13 | FB-2 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-14 | EB-2 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-15 | PT-04D | Total Recoverable | Water | 6020B | 594691 |
| MB 400-594690/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594690 |
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594691 |
| LCS 400-594690/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594690 |
| LCS 400-594691/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594691 |
| 400-226578-B-23-E MS | Matrix Spike | Dissolved | Water | 6020B | 594690 |
| 400-226578-B-23-F MSD | Matrix Spike Duplicate | Dissolved | Water | 6020B | 594690 |
| 680-221590-8 MS | MCM-14 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-8 MSD | MCM-14 | Total Recoverable | Water | 6020B | 594691 |

Analysis Batch: 595577

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-2 | MCM-19 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-4 | FB-1 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-5 | EB-1 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-8 | DPZ-2 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-9 | PT-01 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-10 | PT-02 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-11 | PT-03 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-12 | DR-01 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-13 | DR-02 | Total Recoverable | Water | 6020B | 594662 |
| 680-221590-12 | DUP-2 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-13 | FB-2 | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-14 | EB-2 | Total Recoverable | Water | 6020B | 594691 |
| MB 400-594662/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594662 |
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594691 |
| LCS 400-594662/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594662 |
| LCS 400-594691/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594691 |
| 680-221504-1 MS | MCM-18 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-1 MSD | MCM-18 | Total Recoverable | Water | 6020B | 594662 |

Analysis Batch: 596288

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-2 | MCM-19 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-4 | FB-1 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-5 | EB-1 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 6020B | 594662 |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 6020B | 594662 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals (Continued)

Analysis Batch: 596288 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| MB 400-594662/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594662 |
| LCS 400-594662/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594662 |

Prep Batch: 741743

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221504-5 | EB-1 | Total Recoverable | Water | 3005A | |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 3005A | |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 3005A | |
| MB 680-741743/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 680-741743/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221513-C-1-B MS | Matrix Spike | Total Recoverable | Water | 3005A | |
| 680-221513-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |

Prep Batch: 741757

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total Recoverable | Water | 3005A | |
| 680-221504-2 | MCM-19 | Total Recoverable | Water | 3005A | |
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 3005A | |
| 680-221504-8 | DPZ-2 | Total Recoverable | Water | 3005A | |
| MB 680-741757/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 680-741757/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221504-1 MS | MCM-18 | Total Recoverable | Water | 3005A | |
| 680-221504-1 MSD | MCM-18 | Total Recoverable | Water | 3005A | |

Filtration Batch: 741800

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|------------|------------|
| 680-221504-6 | MCM-06 | Dissolved | Water | FILTRATION | |
| 680-221504-8 | DPZ-2 | Dissolved | Water | FILTRATION | |
| 680-221504-9 | PT-01 | Dissolved | Water | FILTRATION | |
| 680-221504-10 | PT-02 | Dissolved | Water | FILTRATION | |
| 680-221504-11 | PT-03 | Dissolved | Water | FILTRATION | |
| 680-221504-12 | DR-01 | Dissolved | Water | FILTRATION | |
| 680-221504-13 | DR-02 | Dissolved | Water | FILTRATION | |
| 680-221504-6 MS | MCM-06 | Dissolved | Water | FILTRATION | |
| 680-221504-6 MSD | MCM-06 | Dissolved | Water | FILTRATION | |

Prep Batch: 741803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 680-221504-6 | MCM-06 | Dissolved | Water | 3005A | 741800 |
| 680-221504-8 | DPZ-2 | Dissolved | Water | 3005A | 741800 |
| 680-221504-9 | PT-01 | Dissolved | Water | 3005A | 741800 |
| 680-221504-10 | PT-02 | Dissolved | Water | 3005A | 741800 |
| 680-221504-11 | PT-03 | Dissolved | Water | 3005A | 741800 |
| 680-221504-12 | DR-01 | Dissolved | Water | 3005A | 741800 |
| 680-221504-13 | DR-02 | Dissolved | Water | 3005A | 741800 |
| MB 680-741803/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 680-741803/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221504-6 MS | MCM-06 | Dissolved | Water | 3005A | 741800 |
| 680-221504-6 MSD | MCM-06 | Dissolved | Water | 3005A | 741800 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals

Prep Batch: 741808

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221504-4 | FB-1 | Total Recoverable | Water | 3005A | |
| MB 680-741808/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 680-741808/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221525-C-1-B MS | Matrix Spike | Total Recoverable | Water | 3005A | |
| 680-221525-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |

Analysis Batch: 741983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-2 | MCM-19 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-4 | FB-1 | Total Recoverable | Water | 6020B | 741808 |
| 680-221504-5 | EB-1 | Total Recoverable | Water | 6020B | 741743 |
| 680-221504-6 | MCM-06 | Dissolved | Water | 6020B | 741803 |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 6020B | 741743 |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 6020B | 741743 |
| 680-221504-8 | DPZ-2 | Dissolved | Water | 6020B | 741803 |
| 680-221504-8 | DPZ-2 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-9 | PT-01 | Dissolved | Water | 6020B | 741803 |
| 680-221504-10 | PT-02 | Dissolved | Water | 6020B | 741803 |
| 680-221504-11 | PT-03 | Dissolved | Water | 6020B | 741803 |
| 680-221504-12 | DR-01 | Dissolved | Water | 6020B | 741803 |
| 680-221504-13 | DR-02 | Dissolved | Water | 6020B | 741803 |
| MB 680-741743/1-A | Method Blank | Total Recoverable | Water | 6020B | 741743 |
| MB 680-741757/1-A | Method Blank | Total Recoverable | Water | 6020B | 741757 |
| MB 680-741803/1-A | Method Blank | Total Recoverable | Water | 6020B | 741803 |
| MB 680-741808/1-A | Method Blank | Total Recoverable | Water | 6020B | 741808 |
| LCS 680-741743/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 741743 |
| LCS 680-741757/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 741757 |
| LCS 680-741803/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 741803 |
| LCS 680-741808/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 741808 |
| 680-221504-1 MS | MCM-18 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-1 MSD | MCM-18 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-6 MS | MCM-06 | Dissolved | Water | 6020B | 741803 |
| 680-221504-6 MSD | MCM-06 | Dissolved | Water | 6020B | 741803 |
| 680-221513-C-1-B MS | Matrix Spike | Total Recoverable | Water | 6020B | 741743 |
| 680-221513-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 741743 |
| 680-221525-C-1-B MS | Matrix Spike | Total Recoverable | Water | 6020B | 741808 |
| 680-221525-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 741808 |

Prep Batch: 742309

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-221590-1 | MCM-01 | Total Recoverable | Water | 3005A | |
| 680-221590-2 | MCM-02 | Total Recoverable | Water | 3005A | |
| 680-221590-4 | MCM-05 | Total Recoverable | Water | 3005A | |
| 680-221590-5 | MCM-07 | Total Recoverable | Water | 3005A | |
| 680-221590-6 | MCM-11 | Total Recoverable | Water | 3005A | |
| 680-221590-7 | MCM-12 | Total Recoverable | Water | 3005A | |
| 680-221590-8 | MCM-14 | Total Recoverable | Water | 3005A | |
| 680-221590-9 | MCM-15 | Total Recoverable | Water | 3005A | |
| 680-221590-10 | MCM-16 | Total Recoverable | Water | 3005A | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals (Continued)

Prep Batch: 742309 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 680-221590-11 | MCM-17 | Total Recoverable | Water | 3005A | |
| 680-221590-12 | DUP-2 | Total Recoverable | Water | 3005A | |
| 680-221590-13 | FB-2 | Total Recoverable | Water | 3005A | |
| 680-221590-14 | EB-2 | Total Recoverable | Water | 3005A | |
| MB 680-742309/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 680-742309/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221590-4 MS | MCM-05 | Total Recoverable | Water | 3005A | |
| 680-221590-4 MSD | MCM-05 | Total Recoverable | Water | 3005A | |

Prep Batch: 742335

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total/NA | Water | 7470A | |
| 680-221504-2 | MCM-19 | Total/NA | Water | 7470A | |
| 680-221504-3 | DUP-1 | Total/NA | Water | 7470A | |
| 680-221504-4 | FB-1 | Total/NA | Water | 7470A | |
| 680-221504-5 | EB-1 | Total/NA | Water | 7470A | |
| 680-221504-6 | MCM-06 | Total/NA | Water | 7470A | |
| 680-221504-7 | MCM-20 | Total/NA | Water | 7470A | |
| 680-221504-8 | DPZ-2 | Total/NA | Water | 7470A | |
| MB 680-742335/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 680-742335/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 660-123999-H-1-D MS | Matrix Spike | Total/NA | Water | 7470A | |
| 660-123999-H-1-E MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | |

Analysis Batch: 742343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-2 | MCM-19 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-3 | DUP-1 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-4 | FB-1 | Total Recoverable | Water | 6020B | 741808 |
| 680-221504-6 | MCM-06 | Total Recoverable | Water | 6020B | 741743 |
| 680-221504-7 | MCM-20 | Total Recoverable | Water | 6020B | 741743 |
| 680-221504-8 | DPZ-2 | Total Recoverable | Water | 6020B | 741757 |
| MB 680-741808/1-A | Method Blank | Total Recoverable | Water | 6020B | 741808 |
| LCS 680-741808/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 741808 |
| 680-221504-1 MS | MCM-18 | Total Recoverable | Water | 6020B | 741757 |
| 680-221504-1 MSD | MCM-18 | Total Recoverable | Water | 6020B | 741757 |
| 680-221525-C-1-B MS | Matrix Spike | Total Recoverable | Water | 6020B | 741808 |
| 680-221525-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 741808 |

Filtration Batch: 742387

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|------------|------------|
| 680-221504-7 | MCM-20 | Dissolved | Water | FILTRATION | |
| 680-221590-15 | PT-04D | Dissolved | Water | FILTRATION | |
| MB 680-742387/9-B | Method Blank | Dissolved | Water | FILTRATION | |
| LCS 680-742387/10-B | Lab Control Sample | Dissolved | Water | FILTRATION | |
| 680-221590-15 MS | PT-04D | Dissolved | Water | FILTRATION | |
| 680-221590-15 MSD | PT-04D | Dissolved | Water | FILTRATION | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals

Prep Batch: 742388

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 680-221504-7 | MCM-20 | Dissolved | Water | 3005A | 742387 |
| 680-221590-15 | PT-04D | Dissolved | Water | 3005A | 742387 |
| MB 680-742387/9-B | Method Blank | Dissolved | Water | 3005A | 742387 |
| LCS 680-742387/10-B | Lab Control Sample | Dissolved | Water | 3005A | 742387 |
| 680-221590-15 MS | PT-04D | Dissolved | Water | 3005A | 742387 |
| 680-221590-15 MSD | PT-04D | Dissolved | Water | 3005A | 742387 |

Analysis Batch: 742459

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-221504-1 | MCM-18 | Total/NA | Water | 7470A | 742335 |
| 680-221504-2 | MCM-19 | Total/NA | Water | 7470A | 742335 |
| 680-221504-3 | DUP-1 | Total/NA | Water | 7470A | 742335 |
| 680-221504-4 | FB-1 | Total/NA | Water | 7470A | 742335 |
| 680-221504-5 | EB-1 | Total/NA | Water | 7470A | 742335 |
| 680-221504-6 | MCM-06 | Total/NA | Water | 7470A | 742335 |
| 680-221504-7 | MCM-20 | Total/NA | Water | 7470A | 742335 |
| 680-221504-8 | DPZ-2 | Total/NA | Water | 7470A | 742335 |
| MB 680-742335/1-A | Method Blank | Total/NA | Water | 7470A | 742335 |
| LCS 680-742335/2-A | Lab Control Sample | Total/NA | Water | 7470A | 742335 |
| 660-123999-H-1-D MS | Matrix Spike | Total/NA | Water | 7470A | 742335 |
| 660-123999-H-1-E MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | 742335 |

Analysis Batch: 742503

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 680-221590-1 | MCM-01 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-2 | MCM-02 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-4 | MCM-05 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-5 | MCM-07 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-6 | MCM-11 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-7 | MCM-12 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-8 | MCM-14 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-9 | MCM-15 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-10 | MCM-16 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-11 | MCM-17 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-12 | DUP-2 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-13 | FB-2 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-14 | EB-2 | Total Recoverable | Water | 6020B | 742309 |
| MB 680-742309/1-A | Method Blank | Total Recoverable | Water | 6020B | 742309 |
| LCS 680-742309/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-4 MS | MCM-05 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-4 MSD | MCM-05 | Total Recoverable | Water | 6020B | 742309 |

Analysis Batch: 742780

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-------------------|--------|--------|------------|
| 680-221590-4 | MCM-05 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-5 | MCM-07 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-8 | MCM-14 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-11 | MCM-17 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-4 MS | MCM-05 | Total Recoverable | Water | 6020B | 742309 |
| 680-221590-4 MSD | MCM-05 | Total Recoverable | Water | 6020B | 742309 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals

Prep Batch: 742784

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221590-3 | MCM-04 | Total Recoverable | Water | 3005A | |
| MB 680-742784/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 680-742784/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221820-C-3-E MS | Matrix Spike | Total Recoverable | Water | 3005A | |
| 680-221820-C-3-F MSD | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |

Prep Batch: 742786

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------|------------|
| 680-221590-1 | MCM-01 | Total/NA | Water | 7470A | |
| 680-221590-2 | MCM-02 | Total/NA | Water | 7470A | |
| 680-221590-3 | MCM-04 | Total/NA | Water | 7470A | |
| 680-221590-4 | MCM-05 | Total/NA | Water | 7470A | |
| 680-221590-5 | MCM-07 | Total/NA | Water | 7470A | |
| 680-221590-6 | MCM-11 | Total/NA | Water | 7470A | |
| 680-221590-7 | MCM-12 | Total/NA | Water | 7470A | |
| 680-221590-8 | MCM-14 | Total/NA | Water | 7470A | |
| 680-221590-9 | MCM-15 | Total/NA | Water | 7470A | |
| 680-221590-10 | MCM-16 | Total/NA | Water | 7470A | |
| 680-221590-11 | MCM-17 | Total/NA | Water | 7470A | |
| 680-221590-12 | DUP-2 | Total/NA | Water | 7470A | |
| 680-221590-13 | FB-2 | Total/NA | Water | 7470A | |
| 680-221590-14 | EB-2 | Total/NA | Water | 7470A | |
| MB 680-742786/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 680-742786/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 680-221747-A-11-D MS | Matrix Spike | Total/NA | Water | 7470A | |
| 680-221747-A-11-E MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | |

Analysis Batch: 742906

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 680-221504-7 | MCM-20 | Dissolved | Water | 6020B | 742388 |
| 680-221590-15 | PT-04D | Dissolved | Water | 6020B | 742388 |
| MB 680-742387/9-B | Method Blank | Dissolved | Water | 6020B | 742388 |
| LCS 680-742387/10-B | Lab Control Sample | Dissolved | Water | 6020B | 742388 |
| 680-221590-15 MS | PT-04D | Dissolved | Water | 6020B | 742388 |
| 680-221590-15 MSD | PT-04D | Dissolved | Water | 6020B | 742388 |

Analysis Batch: 743020

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 680-221590-1 | MCM-01 | Total/NA | Water | 7470A | 742786 |
| 680-221590-2 | MCM-02 | Total/NA | Water | 7470A | 742786 |
| 680-221590-3 | MCM-04 | Total/NA | Water | 7470A | 742786 |
| 680-221590-4 | MCM-05 | Total/NA | Water | 7470A | 742786 |
| 680-221590-5 | MCM-07 | Total/NA | Water | 7470A | 742786 |
| 680-221590-6 | MCM-11 | Total/NA | Water | 7470A | 742786 |
| 680-221590-7 | MCM-12 | Total/NA | Water | 7470A | 742786 |
| 680-221590-8 | MCM-14 | Total/NA | Water | 7470A | 742786 |
| 680-221590-9 | MCM-15 | Total/NA | Water | 7470A | 742786 |
| 680-221590-10 | MCM-16 | Total/NA | Water | 7470A | 742786 |
| 680-221590-11 | MCM-17 | Total/NA | Water | 7470A | 742786 |
| 680-221590-12 | DUP-2 | Total/NA | Water | 7470A | 742786 |
| 680-221590-13 | FB-2 | Total/NA | Water | 7470A | 742786 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Metals (Continued)

Analysis Batch: 743020 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------|------------|
| 680-221590-14 | EB-2 | Total/NA | Water | 7470A | 742786 |
| MB 680-742786/1-A | Method Blank | Total/NA | Water | 7470A | 742786 |
| LCS 680-742786/2-A | Lab Control Sample | Total/NA | Water | 7470A | 742786 |
| 680-221747-A-11-D MS | Matrix Spike | Total/NA | Water | 7470A | 742786 |
| 680-221747-A-11-E MSD | Matrix Spike Duplicate | Total/NA | Water | 7470A | 742786 |

Analysis Batch: 743044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-221590-3 | MCM-04 | Total Recoverable | Water | 6020B | 742784 |
| MB 680-742784/1-A | Method Blank | Total Recoverable | Water | 6020B | 742784 |
| LCS 680-742784/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 742784 |
| 680-221820-C-3-E MS | Matrix Spike | Total Recoverable | Water | 6020B | 742784 |
| 680-221820-C-3-F MSD | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 742784 |

General Chemistry

Analysis Batch: 741871

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221504-1 | MCM-18 | Total/NA | Water | 2540C-2011 | |
| 680-221504-2 | MCM-19 | Total/NA | Water | 2540C-2011 | |
| 680-221504-3 | DUP-1 | Total/NA | Water | 2540C-2011 | |
| 680-221504-4 | FB-1 | Total/NA | Water | 2540C-2011 | |
| 680-221504-5 | EB-1 | Total/NA | Water | 2540C-2011 | |
| 680-221504-6 | MCM-06 | Total/NA | Water | 2540C-2011 | |
| 680-221504-7 | MCM-20 | Total/NA | Water | 2540C-2011 | |
| 680-221504-8 | DPZ-2 | Total/NA | Water | 2540C-2011 | |
| 680-221504-9 | PT-01 | Total/NA | Water | 2540C-2011 | |
| 680-221504-10 | PT-02 | Total/NA | Water | 2540C-2011 | |
| MB 680-741871/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-741871/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCSD 680-741871/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-221381-H-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |
| 680-221395-B-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 742189

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------------|------------|
| 680-221504-6 | MCM-06 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-7 | MCM-20 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-8 | DPZ-2 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-9 | PT-01 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-10 | PT-02 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-11 | PT-03 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-12 | DR-01 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-13 | DR-02 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221590-15 | PT-04D | Total/NA | Water | 4500 S2 F-2011 | |
| MB 680-742189/1 | Method Blank | Total/NA | Water | 4500 S2 F-2011 | |
| LCS 680-742189/2 | Lab Control Sample | Total/NA | Water | 4500 S2 F-2011 | |
| LCSD 680-742189/3 | Lab Control Sample Dup | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-6 MS | MCM-06 | Total/NA | Water | 4500 S2 F-2011 | |
| 680-221504-6 MSD | MCM-06 | Total/NA | Water | 4500 S2 F-2011 | |
| 400-226324-D-4 DU | Duplicate | Total/NA | Water | 4500 S2 F-2011 | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

General Chemistry

Analysis Batch: 742241

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221504-11 | PT-03 | Total/NA | Water | 2540C-2011 | |
| 680-221504-12 | DR-01 | Total/NA | Water | 2540C-2011 | |
| 680-221504-13 | DR-02 | Total/NA | Water | 2540C-2011 | |
| 680-221590-1 | MCM-01 | Total/NA | Water | 2540C-2011 | |
| 680-221590-2 | MCM-02 | Total/NA | Water | 2540C-2011 | |
| 680-221590-3 | MCM-04 | Total/NA | Water | 2540C-2011 | |
| MB 680-742241/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-742241/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCSD 680-742241/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-221557-A-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |
| 680-221564-A-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 742373

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-221504-1 | MCM-18 | Total/NA | Water | 2320B-2011 | |
| 680-221504-2 | MCM-19 | Total/NA | Water | 2320B-2011 | |
| 680-221504-3 | DUP-1 | Total/NA | Water | 2320B-2011 | |
| 680-221504-4 | FB-1 | Total/NA | Water | 2320B-2011 | |
| MB 680-742373/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-742373/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCSD 680-742373/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-221504-2 DU | MCM-19 | Total/NA | Water | 2320B-2011 | |

Analysis Batch: 742396

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221590-4 | MCM-05 | Total/NA | Water | 2540C-2011 | |
| 680-221590-5 | MCM-07 | Total/NA | Water | 2540C-2011 | |
| 680-221590-6 | MCM-11 | Total/NA | Water | 2540C-2011 | |
| 680-221590-7 | MCM-12 | Total/NA | Water | 2540C-2011 | |
| 680-221590-8 | MCM-14 | Total/NA | Water | 2540C-2011 | |
| 680-221590-9 | MCM-15 | Total/NA | Water | 2540C-2011 | |
| 680-221590-10 | MCM-16 | Total/NA | Water | 2540C-2011 | |
| 680-221590-11 | MCM-17 | Total/NA | Water | 2540C-2011 | |
| 680-221590-12 | DUP-2 | Total/NA | Water | 2540C-2011 | |
| 680-221590-13 | FB-2 | Total/NA | Water | 2540C-2011 | |
| 680-221590-14 | EB-2 | Total/NA | Water | 2540C-2011 | |
| 680-221590-15 | PT-04D | Total/NA | Water | 2540C-2011 | |
| MB 680-742396/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-742396/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCSD 680-742396/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-221590-4 DU | MCM-05 | Total/NA | Water | 2540C-2011 | |
| 680-221590-7 DU | MCM-12 | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 742597

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 680-221504-5 | EB-1 | Total/NA | Water | 2320B-2011 | |
| 680-221504-6 | MCM-06 | Total/NA | Water | 2320B-2011 | |
| 680-221504-7 | MCM-20 | Total/NA | Water | 2320B-2011 | |
| 680-221504-8 | DPZ-2 | Total/NA | Water | 2320B-2011 | |
| 680-221590-1 | MCM-01 | Total/NA | Water | 2320B-2011 | |
| 680-221590-2 | MCM-02 | Total/NA | Water | 2320B-2011 | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

General Chemistry (Continued)

Analysis Batch: 742597 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221590-3 | MCM-04 | Total/NA | Water | 2320B-2011 | |
| 680-221590-4 | MCM-05 | Total/NA | Water | 2320B-2011 | |
| 680-221590-5 | MCM-07 | Total/NA | Water | 2320B-2011 | |
| 680-221590-6 | MCM-11 | Total/NA | Water | 2320B-2011 | |
| 680-221590-7 | MCM-12 | Total/NA | Water | 2320B-2011 | |
| 680-221590-8 | MCM-14 | Total/NA | Water | 2320B-2011 | |
| 680-221590-9 | MCM-15 | Total/NA | Water | 2320B-2011 | |
| 680-221590-10 | MCM-16 | Total/NA | Water | 2320B-2011 | |
| 680-221590-11 | MCM-17 | Total/NA | Water | 2320B-2011 | |
| 680-221590-12 | DUP-2 | Total/NA | Water | 2320B-2011 | |
| 680-221590-13 | FB-2 | Total/NA | Water | 2320B-2011 | |
| 680-221590-14 | EB-2 | Total/NA | Water | 2320B-2011 | |
| MB 680-742597/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-742597/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCS 680-742597/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-221504-5 DU | EB-1 | Total/NA | Water | 2320B-2011 | |
| 680-221590-5 DU | MCM-07 | Total/NA | Water | 2320B-2011 | |

Field Service / Mobile Lab

Analysis Batch: 741795

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-221504-1 | MCM-18 | Total/NA | Water | Field Sampling | |
| 680-221504-2 | MCM-19 | Total/NA | Water | Field Sampling | |
| 680-221504-6 | MCM-06 | Total/NA | Water | Field Sampling | |
| 680-221504-7 | MCM-20 | Total/NA | Water | Field Sampling | |
| 680-221504-8 | DPZ-2 | Total/NA | Water | Field Sampling | |
| 680-221504-9 | PT-01 | Total/NA | Water | Field Sampling | |
| 680-221504-10 | PT-02 | Total/NA | Water | Field Sampling | |
| 680-221504-11 | PT-03 | Total/NA | Water | Field Sampling | |
| 680-221504-12 | DR-01 | Total/NA | Water | Field Sampling | |
| 680-221504-13 | DR-02 | Total/NA | Water | Field Sampling | |

Analysis Batch: 742126

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-221590-1 | MCM-01 | Total/NA | Water | Field Sampling | |
| 680-221590-2 | MCM-02 | Total/NA | Water | Field Sampling | |
| 680-221590-3 | MCM-04 | Total/NA | Water | Field Sampling | |
| 680-221590-4 | MCM-05 | Total/NA | Water | Field Sampling | |
| 680-221590-5 | MCM-07 | Total/NA | Water | Field Sampling | |
| 680-221590-6 | MCM-11 | Total/NA | Water | Field Sampling | |
| 680-221590-7 | MCM-12 | Total/NA | Water | Field Sampling | |
| 680-221590-8 | MCM-14 | Total/NA | Water | Field Sampling | |
| 680-221590-9 | MCM-15 | Total/NA | Water | Field Sampling | |
| 680-221590-10 | MCM-16 | Total/NA | Water | Field Sampling | |
| 680-221590-11 | MCM-17 | Total/NA | Water | Field Sampling | |
| 680-221590-15 | PT-04D | Total/NA | Water | Field Sampling | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-18
Date Collected: 09/20/22 14:30
Date Received: 09/21/22 17:30

Lab Sample ID: 680-221504-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 10 | 5 mL | 5 mL | 743228 | 10/03/22 16:32 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 22:57 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 596288 | 10/13/22 21:48 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 19:41 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742343 | 09/26/22 16:26 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 0 | | | 742459 | 09/27/22 15:58 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742373 | 09/26/22 14:15 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 25 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 14:30 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MCM-19
Date Collected: 09/20/22 15:58
Date Received: 09/21/22 17:30

Lab Sample ID: 680-221504-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 100 | 5 mL | 5 mL | 743228 | 10/03/22 16:44 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:12 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 596288 | 10/13/22 21:54 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 19:53 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742343 | 09/26/22 16:38 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-19

Lab Sample ID: 680-221504-2

Date Collected: 09/20/22 15:58

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:00 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742373 | 09/26/22 14:01 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 15:58 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DUP-1

Lab Sample ID: 680-221504-3

Date Collected: 09/20/22 00:00

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 743228 | 10/03/22 16:57 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:15 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 50 | | | 596288 | 10/13/22 22:00 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 19:56 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742343 | 09/26/22 16:42 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:03 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 420635 | 12/13/22 14:00 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 420993 | 12/15/22 12:51 | RSK | EET PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742373 | 09/26/22 14:26 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 5 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: FB-1

Lab Sample ID: 680-221504-4

Date Collected: 09/20/22 17:50

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 743228 | 10/03/22 17:09 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:37 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 596288 | 10/13/22 22:07 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741808 | 09/23/22 07:50 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 04:06 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741808 | 09/23/22 07:50 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 742343 | 09/26/22 17:24 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:11 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742373 | 09/26/22 14:32 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-1

Lab Sample ID: 680-221504-5

Date Collected: 09/20/22 17:40

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 743228 | 10/03/22 17:21 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:40 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 596288 | 10/13/22 22:13 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741743 | 09/22/22 14:18 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 22:10 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:13 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 18:51 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-06

Lab Sample ID: 680-221504-6

Date Collected: 09/20/22 10:14

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 743228 | 10/03/22 17:34 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 02:31 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:43 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 50 | | | 596288 | 10/13/22 22:34 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741743 | 09/22/22 14:18 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 22:14 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741743 | 09/22/22 14:18 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742343 | 09/26/22 16:06 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:16 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 420635 | 12/13/22 14:00 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 420993 | 12/15/22 13:01 | RSK | EET PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 19:18 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 5 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 300 mL | 300 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 10:14 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MCM-20

Lab Sample ID: 680-221504-7

Date Collected: 09/20/22 11:22

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 50 | 5 mL | 5 mL | 743228 | 10/03/22 17:46 | UI | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 742387 | 09/27/22 11:29 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 742388 | 09/27/22 11:35 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 742906 | 09/29/22 18:06 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-20
Date Collected: 09/20/22 11:22
Date Received: 09/21/22 17:30

Lab Sample ID: 680-221504-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:46 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 50 | | | 596288 | 10/13/22 22:41 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741743 | 09/22/22 14:18 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 21:51 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741743 | 09/22/22 14:18 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742343 | 09/26/22 15:51 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:18 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 420635 | 12/13/22 14:00 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 420993 | 12/15/22 13:17 | RSK | EET PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 19:06 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 290 mL | 290 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 11:22 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DPZ-2
Date Collected: 09/20/22 12:20
Date Received: 09/21/22 17:30

Lab Sample ID: 680-221504-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 100 | 5 mL | 5 mL | 743856 | 10/06/22 16:18 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 02:42 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:49 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 741983 | 09/23/22 20:00 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DPZ-2

Lab Sample ID: 680-221504-8

Date Collected: 09/20/22 12:20

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 741757 | 09/22/22 14:42 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742343 | 09/26/22 16:45 | BWR | EET SAV |
| | | Instrument ID: ICPMSC | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742335 | 09/27/22 08:00 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 742459 | 09/27/22 16:21 | JKL | EET SAV |
| | | Instrument ID: QuickTrace2 | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 19:24 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 300 mL | 300 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| | | Instrument ID: NoEquip | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 12:20 | T1C | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: PT-01

Lab Sample ID: 680-221504-9

Date Collected: 09/20/22 10:15

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 743856 | 10/06/22 16:30 | AF | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 02:53 | BWR | EET SAV |
| | | Instrument ID: ICPMSC | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:52 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 5 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 300 mL | 300 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| | | Instrument ID: NoEquip | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 10:15 | T1C | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: PT-02

Lab Sample ID: 680-221504-10

Date Collected: 09/20/22 16:45

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 743856 | 10/06/22 16:43 | AF | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: PT-02

Lab Sample ID: 680-221504-10

Date Collected: 09/20/22 16:45

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 02:46 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:55 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 5 mL | 200 mL | 741871 | 09/23/22 10:39 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 300 mL | 300 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 16:45 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PT-03

Lab Sample ID: 680-221504-11

Date Collected: 09/20/22 16:28

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 743856 | 10/06/22 16:56 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 02:50 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 23:58 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 10 mL | 200 mL | 742241 | 09/26/22 13:05 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 300 mL | 300 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 16:28 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DR-01

Lab Sample ID: 680-221504-12

Date Collected: 09/20/22 15:15

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 743937 | 10/06/22 21:37 | T1C | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 02:57 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DR-01

Lab Sample ID: 680-221504-12

Date Collected: 09/20/22 15:15

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/08/22 00:01 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 5 mL | 200 mL | 742241 | 09/26/22 13:05 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 310 mL | 310 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 15:15 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DR-02

Lab Sample ID: 680-221504-13

Date Collected: 09/20/22 15:05

Matrix: Water

Date Received: 09/21/22 17:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 50 | 5 mL | 5 mL | 743856 | 10/06/22 19:52 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 741800 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 741803 | 09/23/22 05:58 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 741983 | 09/24/22 03:09 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594662 | 10/01/22 11:45 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/08/22 00:05 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742241 | 09/26/22 13:05 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 290 mL | 290 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 741795 | 09/20/22 15:05 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MCM-01

Lab Sample ID: 680-221590-1

Date Collected: 09/21/22 18:08

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744183 | 10/07/22 23:36 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594690 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 23:31 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 742503 | 09/27/22 23:55 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-01

Lab Sample ID: 680-221590-1

Date Collected: 09/21/22 18:08

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 743020 | 09/30/22 10:52 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 19:38 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742241 | 09/26/22 13:05 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/21/22 18:08 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MCM-02

Lab Sample ID: 680-221590-2

Date Collected: 09/21/22 13:56

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744183 | 10/07/22 23:49 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594690 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 23:35 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 742503 | 09/27/22 23:36 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 743020 | 09/30/22 10:54 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 21:37 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742241 | 09/26/22 13:05 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/21/22 13:56 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MCM-04

Lab Sample ID: 680-221590-3

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 00:02 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594690 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 23:38 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |

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Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-04

Lab Sample ID: 680-221590-3

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742784 | 09/29/22 10:24 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 743044 | 09/30/22 17:27 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 743020 | 09/30/22 10:57 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 19:49 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 50 mL | 200 mL | 742241 | 09/26/22 13:05 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/21/22 15:20 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: MCM-05

Lab Sample ID: 680-221590-4

Date Collected: 09/21/22 15:20

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 00:14 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | | 10 | 5 mL | 5 mL | 744301 | 10/09/22 10:33 | KMB | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594690 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 23:41 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 742503 | 09/27/22 23:09 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742780 | 09/28/22 17:46 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 743020 | 09/30/22 10:59 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 21:08 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 25 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/21/22 15:20 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-07

Lab Sample ID: 680-221590-5

Date Collected: 09/21/22 10:50

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 00:27 | UI | EET SAV |
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 100 | 5 mL | 5 mL | 744301 | 10/09/22 10:46 | KMB | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594690 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 23:44 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/27/22 23:21 | BWR | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 10 | | | 742780 | 09/28/22 17:58 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:02 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 20:45 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 742126 | 09/21/22 10:50 | T1C | EET SAV |

Client Sample ID: MCM-11

Lab Sample ID: 680-221590-6

Date Collected: 09/21/22 11:26

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 00:40 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594690 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 23:47 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/28/22 00:07 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:04 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 21:23 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 200 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 742126 | 09/21/22 11:26 | T1C | EET SAV |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-12

Lab Sample ID: 680-221590-7

Date Collected: 09/21/22 11:10

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 5 | 5 mL | 5 mL | 744183 | 10/08/22 01:56 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 20:01 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/28/22 00:03 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:07 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 21:17 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 50 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 742126 | 09/21/22 11:10 | T1C | EET SAV |

Client Sample ID: MCM-14

Lab Sample ID: 680-221590-8

Date Collected: 09/21/22 14:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 02:08 | UI | EET SAV |
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 100 | 5 mL | 5 mL | 744301 | 10/09/22 10:58 | KMB | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 19:46 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/27/22 23:25 | BWR | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 10 | | | 742780 | 09/28/22 18:01 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:10 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 19:56 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 5 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 742126 | 09/21/22 14:00 | T1C | EET SAV |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-15

Lab Sample ID: 680-221590-9

Date Collected: 09/21/22 16:45

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 02:21 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 20:04 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/28/22 00:15 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:17 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 20:02 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 200 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 742126 | 09/21/22 16:45 | T1C | EET SAV |

Client Sample ID: MCM-16

Lab Sample ID: 680-221590-10

Date Collected: 09/21/22 17:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 01:18 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 20:08 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/27/22 23:48 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:20 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 20:23 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 200 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 742126 | 09/21/22 17:00 | T1C | EET SAV |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: MCM-17
Date Collected: 09/21/22 18:45
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-11
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 2 | 5 mL | 5 mL | 744183 | 10/08/22 02:34 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | | 100 | 5 mL | 5 mL | 744301 | 10/09/22 11:10 | KMB | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 20:11 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 742503 | 09/27/22 23:52 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 10 | | | 742780 | 09/28/22 18:05 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 743020 | 09/30/22 11:22 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 21:44 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 5 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/21/22 18:45 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DUP-2
Date Collected: 09/21/22 00:00
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-12
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|----------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 03:12 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 20:38 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 595577 | 10/07/22 21:30 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B | | 1 | | | 742503 | 09/27/22 23:59 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A | | 1 | | | 743020 | 09/30/22 11:25 | JKL | EET SAV |
| Instrument ID: QuickTrace2 | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 21:50 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: DUP-2
Date Collected: 09/21/22 00:00
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-12
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |

Client Sample ID: FB-2
Date Collected: 09/21/22 17:25
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-13
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 03:24 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 20:41 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 595577 | 10/07/22 21:33 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/28/22 00:11 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:27 | JKL | EET SAV |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 742597 | 09/27/22 21:55 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 200 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |

Client Sample ID: EB-2
Date Collected: 09/21/22 17:35
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221590-14
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 1 | 5 mL | 5 mL | 744183 | 10/08/22 03:37 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 594928 | 10/03/22 20:45 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 5 | | | 595577 | 10/07/22 21:36 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 250 mL | 742309 | 09/27/22 06:03 | RR | EET SAV |
| Total Recoverable | Analysis | 6020B Instrument ID: ICPMSC | | 1 | | | 742503 | 09/27/22 23:32 | BWR | EET SAV |
| Total/NA | Prep | 7470A | | | 50 mL | 50 mL | 742786 | 09/29/22 10:35 | JKL | EET SAV |
| Total/NA | Analysis | 7470A Instrument ID: QuickTrace2 | | 1 | | | 743020 | 09/30/22 11:30 | JKL | EET SAV |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Client Sample ID: EB-2

Lab Sample ID: 680-221590-14

Date Collected: 09/21/22 17:35

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 22:05 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PT-04D

Lab Sample ID: 680-221590-15

Date Collected: 09/21/22 14:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 25 | 5 mL | 5 mL | 744183 | 10/08/22 02:46 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | | 100 | 5 mL | 5 mL | 744301 | 10/09/22 11:23 | KMB | EET SAV |
| Instrument ID: CICL | | | | | | | | | | |
| Dissolved | Filtration | FILTRATION | | | 1.0 mL | 1.0 mL | 742387 | 09/27/22 11:29 | RR | EET SAV |
| Dissolved | Prep | 3005A | | | 50 mL | 250 mL | 742388 | 09/27/22 11:35 | RR | EET SAV |
| Dissolved | Analysis | 6020B | | 1 | | | 742906 | 09/29/22 17:47 | BWR | EET SAV |
| Instrument ID: ICPMSC | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 20:48 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | 4500 S2 F-2011 | | 1 | 300 mL | 300 mL | 742189 | 09/26/22 10:22 | JAS | EET SAV |
| Instrument ID: NoEquip | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/21/22 14:00 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Laboratory: Eurofins Savannah

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Georgia | State | E87052 | 06-30-23 |

Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-22 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

Laboratory: Eurofins Pittsburgh

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------|---------|-----------------------|-----------------|
| Arkansas DEQ | State | 19-033-0 | 06-27-22 * |
| California | State | 2891 | 04-30-23 |
| Connecticut | State | PH-0688 | 09-30-22 * |
| Florida | NELAP | E871008 | 06-30-23 |
| Georgia | State | PA 02-00416 | 04-30-23 |
| Illinois | NELAP | 004375 | 06-30-23 |
| Kansas | NELAP | E-10350 | 03-31-23 |
| Kentucky (UST) | State | 162013 | 04-30-23 |
| Kentucky (WW) | State | KY98043 | 12-31-22 |
| Louisiana | NELAP | 04041 | 06-30-22 * |
| Louisiana (All) | NELAP | 04041 | 06-30-23 |
| Maine | State | PA00164 | 03-06-24 |
| Minnesota | NELAP | 042-999-482 | 12-31-22 |
| New Hampshire | NELAP | 2030 | 04-04-23 |
| New Jersey | NELAP | PA005 | 06-30-23 |
| New York | NELAP | 11182 | 04-01-23 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

Laboratory: Eurofins Pittsburgh (Continued)

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| North Carolina (WW/SW) | State | 434 | 12-31-22 |
| North Dakota | State | R-227 | 04-30-23 |
| Oregon | NELAP | PA-2151 | 02-07-23 |
| Pennsylvania | NELAP | 02-00416 | 04-30-23 |
| Rhode Island | State | LAO00362 | 12-31-22 |
| South Carolina | State | 89014 | 04-20-23 |
| Texas | NELAP | T104704528 | 03-31-23 |
| US Fish & Wildlife | US Federal Programs | 058448 | 03-31-23 |
| USDA | US Federal Programs | P330-16-00211 | 06-21-24 |
| Utah | NELAP | PA001462019-8 | 05-31-23 |
| Virginia | NELAP | 10043 | 09-14-23 |
| West Virginia DEP | State | 142 | 01-31-23 |
| Wisconsin | State | 998027800 | 08-31-23 |

Method Summary

Client: Southern Company
Project/Site: Plant McManus AP1

Job ID: 680-221504-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 300.0-1993 R2.1 | Anions, Ion Chromatography | MCAWW | EET SAV |
| 6020B | Metals (ICP/MS) | SW846 | EET PEN |
| 6020B | Metals (ICP/MS) | SW846 | EET SAV |
| 7470A | Mercury (CVAA) | SW846 | EET SAV |
| EPA 6020B | Metals (ICP/MS) | SW846 | EET PIT |
| 2320B-2011 | Alkalinity, Total | SM | EET SAV |
| 2540C-2011 | Total Dissolved Solids (Dried at 180 °C) | SM | EET SAV |
| 4500 S2 F-2011 | Sulfide, Total | SM | EET SAV |
| Field Sampling | Field Sampling | EPA | EET SAV |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET PEN |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET SAV |
| 7470A | Preparation, Mercury | SW846 | EET SAV |
| FILTRATION | Sample Filtration | None | EET SAV |

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

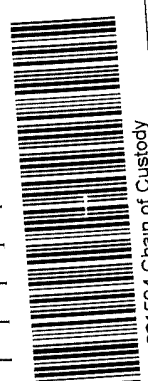
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

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

Chain of Custody Record

WINN-DIXIE STORE

| | | | |
|--|--|---|--|
| Client Information Client Contact: Kristen Jurinko Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: KNJURINK@SOUTHERNCO.COM Project Name: Plant McManus Semi-Annual CCR Site: McManus AP-1 | | Lab P/N: Fuller, David E-Mail: David.Fuller@et.eurofins.com State of Origin: GA Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Lab Project #: 68027841 Lab PO #: GPC82130-0001 Project #: SOW#: | | Analysis Requested 6020B - Metals - Custom List - SAV 9315 Ra226 - Radium-226 9320 Ra228 - Radium-228 6020B - Metals - Custom List - PIT 300_ORGM_28D - Chloride Fluoride Sulfate 6020B - Metals - Custom List - PIT 2540C - Solids, Total Dissolved (TDS) 2320B - Alkalinity, Total, Carb/Bicarb 5M4500_S2_F - Sulfide, Total 6020B - Dissolved Iron 6020B - Arsenic & Iron | |
| Sample Identification MCM-01 MCM-02 MCM-04 MCM-05 MCM-07 MCM-11 MCM-12 MCM-14 MCM-15 MCM-16 MCM-17 | | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers: | |
| Sample Date Sample Time Sample Type (C=comp, G=grab) Preservation Code: | | Matrix (Water, Seawater, Other) Water Water Water Water Water Water Water Water Water Water | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | |
| Deliverable Requested I, II, III, IV, Other (specify) | | | |
| Empty Kit Relinquished by | | | |
| Relinquished by: William Lacker Date/Time: 9/21/22 16:20 Company: Resolute | | Relinquished by: Barbara DiDola Date/Time: 9/21 17:30 Company: | |
| Relinquished by: | | Relinquished by: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: 3.1 3.1 2.3 2.5 3.1 3.0 3.0 3.6 2.4 3.0 | |



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|--|--|---|--|--|--|------------------------------|--|-----------------------------------|--|
| Client Information | | Sampler: William Lacker | | Lab PM: Fuller, David | | Carrier Tracking No(s): | | GOC No: 680-138976-50655.2 | |
| Client Contact: Kristen Jurnko | | Phone: 470-3915-0650 | | E-Mail: David Fuller@eurofins.com | | State of Origin: GA | | Page: Page 2 of 4 | |
| Company: Southern Company | | PWSID: | | Analysis Requested | | Job #: | | Preservation Codes: | |
| Address: 241 Ralph McGill Blvd SE B10185 | | Due Date Requested: | | 300_ORGM_2BD - Chloride Fluoride Sulfate | | Total Number of Containers | | M - Hexane | |
| City: Atlanta | | TAT Requested (days): | | 6020B - Metals - Custom List - PIT | | 7 | | N - None | |
| State Zip: GA, 30308 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 2540C - Solids, Total Dissolved (TDS) | | 7 | | O - AsNaO2 | |
| Phone: 404-506-7116(Tel) | | Lab Project #: | | 9320_Ra228 - Radium-228 | | 7 | | P - Na2O4S | |
| Email: KNJURINK@SOUTHERNCO.COM | | Lab PO #: 68027841 | | 9315_Ra226 - Radium-226 | | 7 | | Q - Na2SO3 | |
| Project Name: Plant McManus Semi-Annual CCR | | Project #: | | Perform MS/MSD (Yes or No) | | 7 | | R - Na2SO3 | |
| Site: McManus AP-1 | | SSOW#: | | Field Filtered Sample (Yes or No) | | 7 | | S - H2SO4 | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (Water, Solid, Other) | |
| MCM-18 | | 9/20/22 | | 1430 | | G | | Water | |
| MCM-19 | | 9/20/22 | | 1558 | | G | | Water | |
| DUP-1 | | 9/20/22 | | - | | G | | Water | |
| DUP-2 | | 9/20/22 | | 1750 | | G | | Water | |
| FB-1 | | 9/20/22 | | 1740 | | G | | Water | |
| FB-2 | | | | | | | | Water | |
| FB-3 | | | | | | | | Water | |
| EB-1 | | | | | | | | Water | |
| EB-2 | | | | | | | | Water | |
| EB-3 | | | | | | | | Water | |
| Extra 1 | | | | | | | | Water | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify) | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ | | | | | | | | | |
| Relinquished by: William Lacker Date/Time: 9/21/22 1620 Company: Resolute | | | | | | | | | |
| Relinquished by: _____ Date/Time: _____ Company: _____ | | | | | | | | | |
| Relinquished by: _____ Date/Time: _____ Company: _____ | | | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | |
| Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: 2.1 / 3.1 / 2.7 / 2.5 / 3.1 | | | | | | | | | |
| Ver 01/16/2019 | | | | | | | | | |



Chain of Custody Record

| | | | | | | | |
|---|--|---|--|---|--|---|--|
| Client Information | | Sampler: William Lawker | | Lab PM: Fuller, David | | Carrier Tracking No(s): 680-138976-50655.3 | |
| Client Contact: Kristen Jurinko | | Phone: 410-3915-0650 | | E-Mail: David Fuller@et.eurofins.com | | State of Origin: GA | |
| Company: Southern Company | | Address: 241 Ralph McGill Blvd SE B10185 | | City: Atlanta | | Page: Page 3 of 4 | |
| State: GA | | City: Atlanta | | State: GA | | Job #: | |
| Phone: 404-506-7116(Tel) | | Lab Project #: 68027841 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 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: | |
| Email: KNJURINK@SOUTHERNCO.COM | | Lab PO #: GPC82130-0001 | | Project #: | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | |
| Plant Name: Plant McManus Semi-Annual CCR | | Site: McManus AP-1 | | SSOW#: | | Total Number of Containers: | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | |
| Extra 2 | | | | | | Matrix (W=Water, S=solid, O=organic, BT=Tissue, AA=Air) | |
| Extra 3 | | | | | | Preservation Code: | |
| Extra 4 | | | | | | Water | |
| Extra 5 | | | | | | Water | |
| MCM-06 | | 9/20/22 | | 1014 | | G | |
| MCM-20 | | 9/20/22 | | 1122 | | G | |
| DPZ-2 | | 9/20/22 | | 1220 | | G | |
| PT-01 | | 9/20/22 | | 1015 | | G | |
| PT-02 | | 9/20/22 | | 1645 | | G | |
| PT-03 | | 9/20/22 | | 1628 | | G | |
| PT-04D | | | | | | Water | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Radiological | | <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Deliverable Requested I, II, III, IV, Other (specify) | | Empty Kit Relinquished by: William Lawker | | Date/Time: 9/21/22 1620 | | Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months | |
| Relinquished by: William Lawker | | Date/Time: 9/21/22 1620 | | Company: Resolute | | Special Instructions/QC Requirements: | |
| Relinquished by: | | Date/Time: | | Company: | | Method of Shipment: | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: Barbara D. Oda | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Custody Seal No. | | Received by: ap | | Date/Time: 9/21 17:30 | |
| Cooler Temperature(s) °C and Other Remarks: | | Received by: | | Date/Time: | | Company: | |



Client Information
Client Contact: Kristen Junniko
Company: Southern Company
Address: 241 Ralph McGill Blvd SE B10185
City: Atlanta
State, Zip: GA, 30308
Phone: 404-506-7116(Tel)
Email: KNJURINK@SOUTHERNCO.COM
Project Name: Plant McManus Semi-Annual CCR
Site: McManus AP-1

Sampler
William Lacker
Phone: 410-845-0650
PWSID:
Rev. 1
Stephenson

Lab PM: Fuller, David
E-Mail: David.Fuller@eurofins.com
Carrier Tracking No(s):
State of Origin: GA
COC No: 680-138976-50655.4
Page: Page 4 of 4
Job #:

Analysis Requested

Due Date Requested:
TAT Requested (days):
Compliance Project: Yes No
Lab Project #: 68027841
Lab PO #: GPC82130-0001
Project #:
SSOW#: McManus AP-1

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Total Number of Containers

Special Instructions/Note:
PH

| Sample ID | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other) | Preservation Code | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 915_Ra226 - Radium-226 | 920_Ra228 - Radium-228 | 6020B - Metals - Custom List - SAV | 300_ORGM_28D - Chloride Fluoride Sulfate | 6020B - Metals - Custom List - PIT | 2540C - Solids, Total Dissolved (TDS) | 2320B - Alkalinity, Total, Carb/Bicarb | SM4500_S2_F - Sulfide, Total | 6020B - Dissolved Iron | 6020B - Arsenic & Iron | Total Number of Containers | Special Instructions/Note: |
|-----------|-------------|-------------|------------------------------|------------------------------|-------------------|-------------------------------------|-------------------------------------|------------------------|------------------------|------------------------------------|--|------------------------------------|---------------------------------------|--|------------------------------|------------------------|------------------------|----------------------------|----------------------------|
| DR-01 | 9/20/22 | 1515 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> | | | | | | | 6 | 7 36 |
| DR-02 | 9/20/22 | 1505 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> | | | | | | | 6 | 7 32 |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by
 Relinquished by: William Lacker
 Relinquished by:
 Relinquished by:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

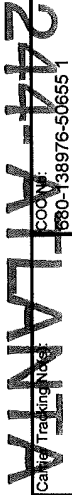
Received by: Barbara D. Dela
Received by: ap
Received by:

Date/Time: 9/21/22 1620
Date/Time: 9/21 17:30
Date/Time:

Company: Resolute
Company:
Company:

Cooler Temperature(s) °C and Other Remarks:
 Yes No





Client Information
 Client Contact: **Will Lacker, Meredith Deaton, Stephen...**
 Phone: **470-895-0650**
 Company: **Southern Company**
 Address: **241 Ralph McGill Blvd SE B10185**
 City: **Atlanta**
 State, Zip: **GA, 30308**
 Phone: **404-506-7116(Tel)**
 Email: **KNJURINK@SOUTHERNCO.COM**
 Project Name: **Plant McManus Semi-Annual CCR**
 Site: **McManus AP - 1**

Lab Information
 Lab PM: **Kevin Fuller, David Fuller**
 State of Origin: **GA**
 Job #: **680-138976-50655-1**
 Page 1 of 4

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Preservation Code | Matrix (Water, Swab, Spill, Oil, Other) | Analysis Requested | | | | | | | | | | | | | Special Instructions/Note: | | | | | | |
|-----------------------|-------------|-------------|------------------------------|-------------------|---|-----------------------------------|----------------------------|-------------------------|-------------------------|------------------------------------|---|------------------------------------|---------------------------------------|--|------------------------------|------------------------|------------------------|----------------------------|----------------------------|---|---|---|---|-----|--|
| | | | | | | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9315_Ra226 - Radium-226 | 9320_Ra228 - Radium-228 | 6020B - Metals - Custom List - SAV | 300_ORGFM_28D - Chloride Fluoride Sulfate | 6020B - Metals - Custom List - FIT | 2540C - Solids, Total Dissolved (TDS) | 2320B - Alkalinity, Total, Carb/Bicarb | 5M4500_52_F - Sulfide, Total | 6020B - Dissolved Iron | 6020B - Arsenic & Iron | Total Number of Containers | | | | | | | |
| MCM-01 | 9/21/22 | 1808 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 495 | <p>PH</p> <p>680-221590 Chain of Custody</p> |
| MCM-02 | 9/21/22 | 1356 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 514 | |
| MCM-04 | 9/21/22 | 1520 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 534 | |
| MCM-05 | 9/21/22 | 1520 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 693 | |
| MCM-07 | 9/21/22 | 1050 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 621 | |
| MCM-11 | 9/21/22 | 1126 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 497 | |
| MCM-12 | 9/21/22 | 1110 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 630 | |
| MCM-14 | 9/21/22 | 1400 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 661 | |
| MCM-15 | 9/21/22 | 1645 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 523 | |
| MCM-16 | 9/21/22 | 1700 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 491 | |
| MCM-17 | 9/21/22 | 1845 | G | Water | Water | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 7 | 672 | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV Other (specify)

Special Instructions/QC Requirements
 Empty Kit Relinquished by: **Will Lacker**
 Relinquished by: **Will Lacker**
 Relinquished by: _____
 Date: **9/23/22 0910**
 Date/Time: **9/23/22 0910**
 Date/Time: **9-23-22 1000**
 Date/Time: _____
 Company: **Resolute**
 Company: _____
 Company: _____
 Cooler Temperature(s) °C and Other Remarks: **23/22 2.1/2.0 1.9/1.8 2.5/2.9**
 Custody Seals Intact: **Yes**
 Custody Seal No **Yes**



Chain of Custody Record

| Client Information Client Contact: Kristen Jurinko Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: KNUJURINK@SOUTHERNCO.COM Project Name: Plant McManus Semi-Annual CCR Site: McManus AP-1 | | Lab PM: Kevin Fuller, David Fuller, David E-Mail: David Fuller@et.eurofins.com Phone: 470-895-0650 PWSID: State of Origin: GA Job #: | | QOC Method: 8871 QOC Tracking No.: 100728976-50655.2 Page 2 of 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|------------------------------|--|--------------------|-------------------------------------|-------------------------------------|-------------------------|------------------------------------|--|------------------------------------|---------------------------------------|--|------------------------------|------------------------------------|--|------------------------------------|---------------------------------------|--|------------------------------|------------------------|------------------------|----------------------------|----------------------------|--------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|----|--------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|-------|---------|--|---|-------|--|-------------------------------------|-------------------------------------|---|---|---|---|---|---|--|--|--|---|--|------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|------|---------|------|---|-------|--|-------------------------------------|-------------------------------------|---|---|---|---|---|---|--|--|--|---|--|------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|------|---------|------|---|-------|--|-------------------------------------|-------------------------------------|---|---|---|---|---|---|--|--|--|---|--|------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---------|--|--|--|-------|--|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Analysis Requested Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No Lab Project #: 68027841 Lab PO #: GPC82130-0001 Project #: SSOW#: | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Sample, Oil, Other)</th> <th>Preservation Code:</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>9316_Ra228 - Radium-228</th> <th>6020B - Metals - Custom List - SAV</th> <th>300_ORGM_28B - Chloride Fluoride Sulfate</th> <th>6020B - Metals - Custom List - PIT</th> <th>2540C - Solids, Total Dissolved (TDS)</th> <th>2320B - Alkalinity, Total, Carb/Bicarb</th> <th>SM4500_S2_F - Sulfide, Total</th> <th>6020B - Dissolved Iron</th> <th>6020B - Arsenic & Iron</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MCM-18</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PH</td> </tr> <tr> <td>MCM-19</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DUP-1</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DUP-2</td> <td>9/21/22</td> <td></td> <td>G</td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>7</td> <td></td> </tr> <tr> <td>FB-1</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FB-2</td> <td>9/21/22</td> <td>1725</td> <td>G</td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>7</td> <td></td> </tr> <tr> <td>FB-3</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EB-1</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EB-2</td> <td>9/21/22</td> <td>1735</td> <td>G</td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>7</td> <td></td> </tr> <tr> <td>EB-3</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Extra 1</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Sample, Oil, Other) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 9316_Ra228 - Radium-228 | 6020B - Metals - Custom List - SAV | 300_ORGM_28B - Chloride Fluoride Sulfate | 6020B - Metals - Custom List - PIT | 2540C - Solids, Total Dissolved (TDS) | 2320B - Alkalinity, Total, Carb/Bicarb | SM4500_S2_F - Sulfide, Total | 6020B - Dissolved Iron | 6020B - Arsenic & Iron | Total Number of Containers | Special Instructions/Note: | MCM-18 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | PH | MCM-19 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | DUP-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | DUP-2 | 9/21/22 | | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X | X | | | | 7 | | FB-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | FB-2 | 9/21/22 | 1725 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X | X | | | | 7 | | FB-3 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | EB-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | EB-2 | 9/21/22 | 1735 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X | X | | | | 7 | | EB-3 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | Extra 1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | |
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| MCM-18 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | PH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MCM-19 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DUP-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DUP-2 | 9/21/22 | | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X | X | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FB-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FB-2 | 9/21/22 | 1725 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X | X | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FB-3 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EB-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EB-2 | 9/21/22 | 1735 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | X | X | X | X | X | X | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EB-3 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extra 1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Instructions/QC Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by Relinquished by: William Locker Relinquished by: Relinquished by: | | Date Date/Time: 9/23/22 0910 Date/Time: Date/Time: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: 2.6 / 2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Chain of Custody Record

| | | | | | | | |
|--|---------|---|---|---|--|--|--|
| Client Information | | Sampler: Kevin Fuller, David | | Lab PM: Kevin Fuller, David | | COC No: 680-138976-50655.3 | |
| Client Contact: Kristen Jurnko | | Phone: 470-395-0650 | | E-Mail: David.Fuller@et.eurofins.com | | Carrier Tracking No(s): | |
| Company: Southern Company | | Address: 241 Ralph McGill Blvd SE B10185 | | City: Atlanta | | State of Origin: GA | |
| State Zip: GA, 30308 | | TAT Requested (days): | | Compliance Project: Δ Yes Δ No | | Page: Page 3 of 4 | |
| Phone: 404-506-7116(Tel) | | Lab Project #: 68027841 | | Lab PO #: GPC82130-0001 | | Job #: | |
| Email: KNJURINK@SOUTHERNCO.COM | | Project #: Plant McManus Semi-Annual CGR | | SSOW#: McManus AP-1 | | 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 | |
| Project Name: Plant McManus Semi-Annual CGR | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | |
| Site: McManus AP-1 | | Sample Date | | Sample Time | | Matrix (Water, Solid, Organic, Inorganic) | |
| Sample Identification | | Sample Date | | Sample Time | | Preservation Code: | |
| Extra 2 | | | | | | Water | |
| Extra 3 | | | | | | Water | |
| Extra 4 | | | | | | Water | |
| Extra 5 | | | | | | Water | |
| MCM-06 | | | | | | Water | |
| MCM-20 | | | | | | Water | |
| DPZ-2 | | | | | | Water | |
| PT-01 | | | | | | Water | |
| PT-02 | | | | | | Water | |
| PT-03 | | | | | | Water | |
| PT-04D | 9/21/22 | 1400 | G | | | Water | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | | |
| Deliverable Requested I, II, III, IV, Other (specify) | | | | | | | |
| Empty Kit Relinquished by | | | | | | | |
| Relinquished by: William Locker | | Date: 9/23/22 | | Time: 0910 | | Company: Resolute | |
| Relinquished by: | | Date/Time: | | Date/Time: | | Company: | |
| Relinquished by: | | Date/Time: | | Date/Time: | | Company: | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No. | | Cooler Temperature(s) °C and Other Remarks: | | Special Instructions/Note: pH | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | |
| Method of Shipment: | | | | | | | |
| Received by: William Locker | | Date: 9/23/22 | | Time: 9:10 | | Company: | |
| Received by: | | Date/Time: | | Date/Time: | | Company: | |
| Received by: | | Date/Time: | | Date/Time: | | Company: | |



Chain of Custody Record



| | | | |
|---|-------------------------|--|--|
| Client Information (Sub Contract Lab) | | Lab PM Fuller, David | Carrier Tracking No(s) 680-709179-1 |
| Client Contact | Phone | E-Mail David.Fuller@et.eurofins.com | State of Origin Georgia |
| Shipping/Receiving | | Page Page 1 of 2 | |
| Company TestAmerica Laboratories, Inc. | | Job # 680-221504-1 | |
| Address 13715 Rider Trail North, | | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA Y - Trizma Z - other (specify) Other: | |
| City Earth City | State, Zip MO, 63045 | Analysis Requested | |
| Phone 314-298-8566(Tel) 314-298-8757(Fax) | PO # | Total Number of Containers | |
| Email | WO # | Field Filtered Sample (Yes or No) | |
| Project Name Plant McManus AP1 | Project # 68027841 | Perform MS/MSD (Yes or No) | |
| Site | SSOW# | 920_Ra228/PrecSep_0 Radium-228 | |
| Due Date Requested: 10/5/2022 | | 915_Ra228/PrecSep_21 Radium-228 | |
| TAT Requested (days): | | Radium-228 | |
| Sample Date | | Radium-228 GFC/ Combined Radium-226 and | |
| Sample Time | Sample Time | Special Instructions/Note: | |
| Sample Type (C=comp, G=grab) | Preservation Code | | |
| Matrix (Newater, Seawater, On-water/soil, BT-Tissue, A-Air) | | | |
| MCM-18 (680-221504-1) | Water | X | 2 |
| MCM-19 (680-221504-2) | Water | X | 2 |
| DUP-1 (680-221504-3) | Water | X | 2 |
| FB-1 (680-221504-4) | Water | X | 2 |
| EB-1 (680-221504-5) | Water | X | 2 |
| MCM-06 (680-221504-6) | Water | X | 2 |
| MCM-20 (680-221504-7) | Water | X | 2 |
| DPZ-2 (680-221504-8) | Water | X | 2 |
| PT-01 (680-221504-9) | 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/test/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 to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: cy 9/22/22 1700 Date/Time
 Relinquished by: _____ Date/Time
 Relinquished by: _____ Date/Time
 Custody Seals Intact: _____
 Δ Yes Δ No Custody Seal No. _____
 Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Method of Shipment: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: Sara Worthington 9/23/2022 0840 Date/Time: _____ Company: ETASR
 Received by: _____ Date/Time: _____ Company: _____
 Ver: 06/08/2021

Eurofins Pensacola

3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record



Environment Testing

| | | | | | |
|---|---------|---|---|------------------------------|---|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: |
| Client Contact: Shipping/Receiving | | Fuller, David | Fuller, David | State of Origin: Georgia | 400-309285-1 |
| Company: Eurofins Environment Testing Northeast | | Phone: | E-Mail: David.Fuller@et.eurofins.com | Page 1 of 1 | Job #: 680-221504-1 |
| Address: 301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238 | | Due Date Requested: 10/6/2022 | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | | |
| City: Pittsburgh State, Zip PA, 15238 | | TAT Requested (days): | Analysis Requested | | |
| PO #: 412-963-7058(Tel) 412-963-2468(Fax) | | Project #: 68027841 | Total Number of Containers | | |
| Email: 412-963-7058(Tel) 412-963-2468(Fax) | | SSOW#: | Special Instructions/Note: | | |
| Plant Name: Plant McManus AP1 | | Site: | Perform MS/MSD (Yes or No) | | |
| Site: | | Site: | Field Filtered Sample (Yes or No) | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) |
| DUP-1 (680-221504-3) | 9/20/22 | Eastern | Water | Water | 6020B/3005A Lithium |
| MCM-06 (680-221504-6) | 9/20/22 | 10:14 Eastern | Water | Water | |
| MCM-20 (680-221504-7) | 9/20/22 | 11:22 Eastern | Water | Water | |
| <p>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/test/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</p> | | | | | |
| Possible Hazard Identification | | | | | |
| Unconfirmed | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | |
| <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Special Instructions/QC Requirements: | | | | | |
| Empty Kit Relinquished by: | | Date: | Method of Shipment: | | |
| Relinquished by: | | Date/Time: 9/20/22 17:00 | Received by: [Signature] | | |
| Relinquished by: | | Date/Time: | Company: [Signature] | | |
| Relinquished by: | | Date/Time: | Company: | | |
| Custody Seals Intact: | | Cooler Temperature(s) °C and Other Remarks: | | | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |





Environment Testing
TestAmerica

Part # 159468-434-MITW-EXP-09/23

ORIGIN ID: PNSA (850) 474-1001
SAMPLE RECEIVING
EUROFINS PENSACOLA
3355 MCLEMORE DR
PENSACOLA, FL 32514
UNITED STATES US

SHIP DATE: 09DEC22
ACTWGT: 19.65 LB
CAD: 0823943/CAFE3616

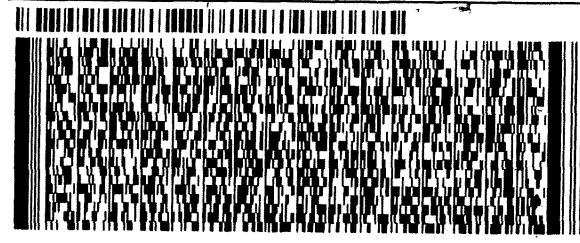
BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
PO: YES

REF: 8400-115995

577C3/9687/432A



FedEx
Express



J2220220328011111



TRK# 0201 5564 3935 6785

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

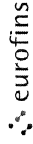
15238
PA-US PIT

Uncorrected temp 24 °C
Thermometer ID 19

CF DJ Initials KR

PT-WI-SR-001 effective 11/8/18

Chain of Custody Record



| | | | | | |
|---|---------|---|-------|--|---|
| Client Information (Sub Contract Lab) | | Lab PM: Fuller, David | | Carrier Tracking No(s): 680-709181.1 | |
| Client Contact: Shipping/Receiving | | E-Mail: David.Fuller@st.eurofins.com | | Page: Page 1 of 2 | |
| Company: Eurofins Environment Testing Southeast, | | Accreditations Required (See note): State - Georgia | | Job #: 680-221504-1 | |
| Address: 3355 McLemore Drive, Pensacola, FL, 32514 | | Due Date Requested: 10/5/2022 | | Preservation Codes: 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) | |
| City: Pensacola, State: FL, Zip: 32514 | | TAT Requested (days): | | Analysis Requested | |
| Phone: 850-474-1001(Tel) 850-478-2671(Fax) | | PO #: | | Total Number of containers | |
| Email: 68027841 | | WO #: | | 602B/3005A Arsenic & Iron | |
| Project Name: Plant McManus AP1 | | Project #: 68027841 | | 602B/3005A Custom - 6 | |
| Site: | | SSOV#: | | Field Filtered Sample (Yes or No) | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | | Sample Time | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | | Sample Time | |
| MCM-18 (680-221504-1) | 9/20/22 | 14:30 Eastern | Water | X | 1 |
| MCM-19 (680-221504-2) | 9/20/22 | 15:58 Eastern | Water | X | 1 |
| DUP-1 (680-221504-3) | 9/20/22 | Eastern | Water | X | 1 |
| FB-1 (680-221504-4) | 9/20/22 | 17:50 Eastern | Water | X | 1 |
| EB-1 (680-221504-5) | 9/20/22 | 17:40 Eastern | Water | X | 1 |
| MCM-06 (680-221504-6) | 9/20/22 | 10:14 Eastern | Water | X | 1 |
| MCM-20 (680-221504-7) | 9/20/22 | 11:22 Eastern | Water | X | 1 |
| DPZ-2 (680-221504-8) | 9/20/22 | 12:20 Eastern | Water | X | 1 |
| PT-01 (680-221504-9) | 9/20/22 | 10:15 Eastern | Water | X | 1 |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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.</p> | | | | | |
| Possible Hazard Identification | | | | | |
| Unconfirmed | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | | | | | |
| Special Instructions/QC Requirements: | | | | | |
| Empty Kit Relinquished by: Date: | | | | | |
| Relinquished by: <i>gj</i> 9/22/22 1700 Date/Time: Company | | | | | |
| Relinquished by: Date/Time: Company | | | | | |
| Relinquished by: Date/Time: Company | | | | | |
| Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: <i>0.0, 2.5, 18.7</i> | | | | | |
| <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months | | | | | |



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221504-1

Login Number: 221504

List Number: 1

Creator: Padayao, Abigail

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. | 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 | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221504-1

Login Number: 221504

List Number: 3

Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

List Creation: 09/23/22 01:27 PM

| Question | Answer | Comment |
|--|--------|------------------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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 | 0.0°C, 2.5°C IR9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221504-1

Login Number: 221504

List Number: 4

Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh

List Creation: 12/10/22 02:43 PM

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | 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 | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221504-1

Login Number: 221590

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221504-1

Login Number: 221590

List Number: 2

Creator: Whitley, Adrian

List Source: Eurofins Pensacola

List Creation: 09/24/22 11:16 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. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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 | 3.4, 1.7°C IR8 |
| 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 | |

**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 eight groundwater samples collected as part of the June 2022 dike well supplemental sampling event at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by Pace Analytical Services, LLC in Minneapolis, Minnesota (Pace Minneapolis) and Asheville, North Carolina (Pace Asheville) for total and dissolved metals by SW-846 Method 6010D; for total and dissolved metals by SW-846 Method 6020B; for total dissolved solids (TDS) by Standard Method (SM) 2540C; for sulfate by US EPA Method 300.0; for chloride by SM 4500-Cl-E; for sulfide by SM 4500-S2D; and for alkalinity by SM 2320B.

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 6/28/2022 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review: PT-01, PT-02, PT-03, PT-04D, DR-01, DR-02, MCM-06 and DPZ-02

The following Pace inorganic SDG was evaluated as part of this QA review: 92612546.

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
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision
- Field duplicate precision
- Total and dissolved result 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.

Comments and Exceptions

1. The laboratory did not provide a Case Narrative associated with the inorganic analyses. As this item was not needed to complete the data validation, the laboratory had not been requested to provide this information. Qualification of data due to this issue was not warranted.
2. 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 $\leq 20\%$ when both results were $\geq 5\times$ the

reporting limit [RL] or the difference between results was \leq the RL when at least one result was $< 5 \times$ the RL).

| <u>Laboratory SDG(s)</u> | <u>Sample</u> | <u>Field Duplicate</u> |
|--------------------------|---------------|------------------------|
| 92612546 | PT-03 | DUP-1 |

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

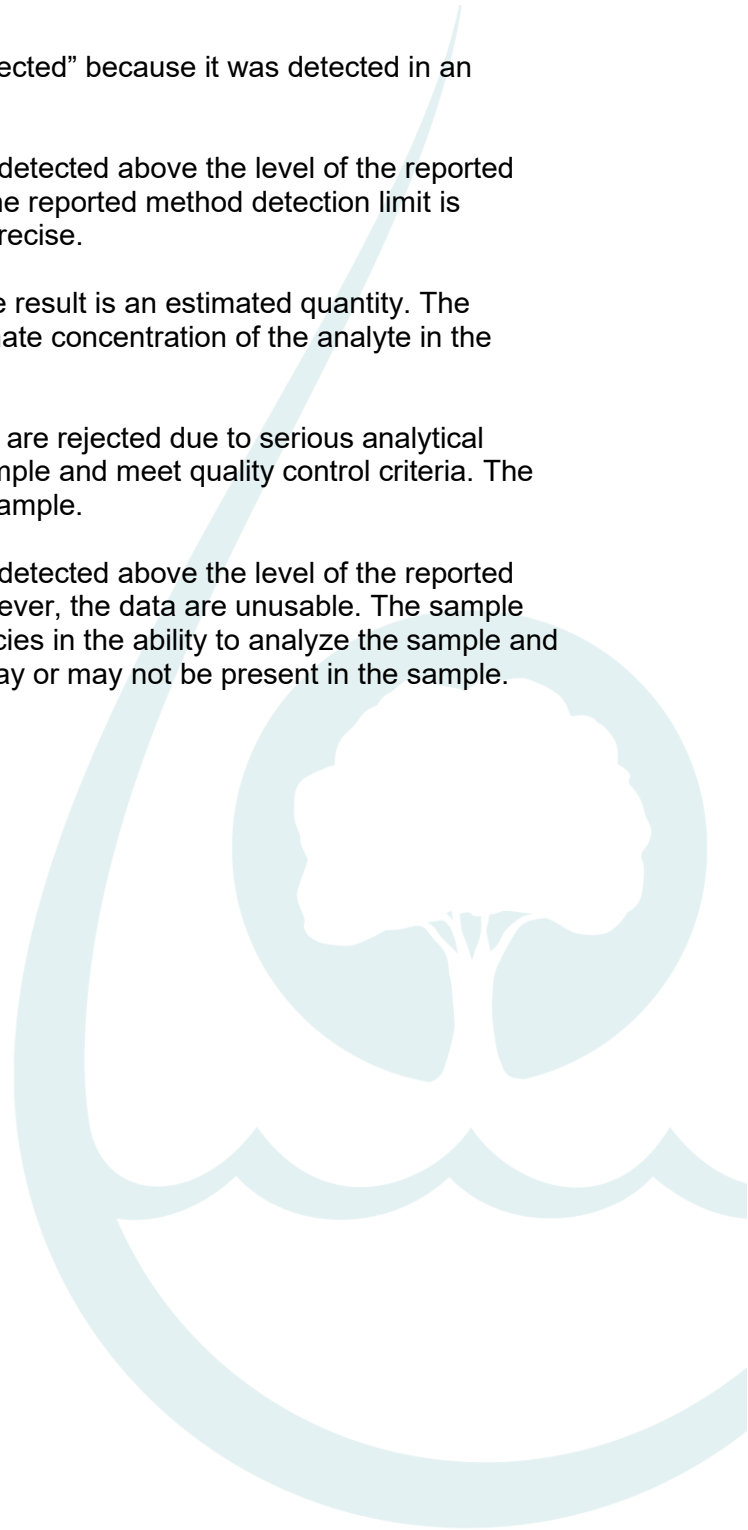
| <u>Laboratory SDG</u> | <u>Sample(s)</u> | <u>Analyte(s)</u> | <u>Qualifier</u> | <u>Reason for Qualification</u> |
|-----------------------|-------------------------|-------------------------------------|------------------|---|
| 92612546 | all samples | sulfate | J | M- – Low MS/MSD recoveries |
| 92612546 | PT-03, DR-2, and MCM-06 | total sodium and dissolved sodium | J | FG – Total versus dissolved imprecision |
| 92612546 | DPZ-02 | total arsenic and dissolved arsenic | J | FG – Total versus dissolved imprecision |

- All inorganic positive results reported between the method detection limit (MDL) and RL have been flagged "J".

Report prepared by: Wendy Zhou, Quality Assurance Chemist
 Report reviewed by: Alyssa M. Reed, Senior Quality Assurance Chemist/Project Manager
 Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
 Date: 11/22/2022

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 |

**Stage 2A Revised Data Verification Report
Georgia Power
McManus Fossil Plant
Coal Combustion Residuals Project
Groundwater Samples**

This revised quality assurance (QA) review is based upon an examination of the data generated from the analyses of the 22 groundwater samples collected as part of the September 2022 semi-annual monitoring at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by Eurofins Environment Testing Southeast, LLC in Savannah, Georgia (Eurofins Savannah), and Pensacola, Florida (Eurofins Pensacola), and Eurofins Environment Testing Northeast, LLC in Pittsburgh, Pennsylvania (Eurofins Pittsburgh), for total and dissolved metals by SW-846 Method 6020B; for mercury by SW-846 Method 7470A; for total dissolved solids (TDS) by Standard Method (SM) 2540C; for anions (specifically, chloride, fluoride, and sulfate) by US EPA Method 300.0; for total sulfide by SM 4500S2-F; and for alkalinity by SM 2320B.

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 9/20/2022 and 9/21/2022 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review: MCM-18, MCM-19, MCM-06, MCM-20, DPZ-2, PT-01, PT-02, PT-03, DR-01, DR-02, MCM-01, MCM-02, MCM-04, MCM-05, MCM-07, MCM-11, MCM-12, MCM-14, MCM-15, MCM-16, MCM-17, and PT-04D.

The following Eurofins inorganic SDG was evaluated as part of this QA review: 680-221504-1.

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
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision
- Field duplicate 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.

Comments and Exceptions

1. During review, it was noted that all results for samples analyzed by SW-846 Method 6020B at Pace Pensacola (specifically, antimony, arsenic, iron, boron, chromium, and lead) were reported at a 5-fold dilution. Upon Environmental Standards' inquiry, the laboratory noted that Pace Pensacola uses a standard 5× dilution for all aqueous samples, including QC samples. Qualification of data due to this issue was not warranted.
2. During review, it was noted that several lithium results had been reported as "not-detected" from an analysis at a dilution. Upon Environmental Standards' inquiry, the laboratory indicated they observed interferences in the analysis of the samples as evidenced by failing internal standards or negative instrument readings greater than the

absolute value of the reporting limit. Due to these issues, which are not part of a standard Stage 2A review, the laboratory reanalyzed the samples at a dilution to mitigate the interferences. Qualification of data due to this issue was not warranted.

3. The laboratory issued a revised laboratory report on November 18, 2022, in order to correct several metals results that had been reported at a 50×, 100×, and 500× dilution. The laboratory had implemented updated control limits for internal standards; therefore, the 5× dilution analysis was able to be reported for these analytes. The data reviewer evaluated the updated metals results and applied qualification as required as addressed in the Overall Assessment of Data section.
4. The laboratory issued a second revised laboratory report on December 16, 2022, to correct the lithium results for samples MCM-06, MCM-20 and DUP-1. The lithium detection limits reported by Pace Pensacola did not meet the data quality objectives for the site, so the samples were subcontracted to Pace Pittsburgh for reanalysis. The laboratory reported both the Pace Pensacola initial analysis and Pace Pittsburgh reanalysis in the data package and electronic data deliverable (EDD) for these samples. The data reviewer evaluated the updated lithium results and applied qualification as required as addressed in the Overall Assessment of Data section.
5. 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] or the difference between results was ≤ the RL when at least one results was < 5x the RL), with any exceptions noted below.

| <u>Laboratory SDG(s)</u> | <u>Sample</u> | <u>Field Duplicate</u> |
|--------------------------|---------------|------------------------|
| 680-221504-1 | MCM-06 | DUP-1 |
| 680-221504-1 | MCM-15 | DUP-2 |

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

| <u>Laboratory SDG</u> | <u>Sample(s)</u> | <u>Analyte(s)</u> | <u>Qualifier</u> | <u>Reason for Qualification</u> |
|-----------------------|--|-------------------|------------------|-------------------------------------|
| 680-221504-1 | MCM-01, MCM-16, MCM-04, MCM-05, MCM-07, MCM-11, MCM-14, and MCM-15 | chromium | U* | BF – field blank contamination |
| 680-221504-1 | MCM-16 | boron | U* | BF – field blank contamination |
| 680-221504-1 | MCM-01, MCM-02, MCM-04, MCM-05, and MCM-11 | boron | U* | BL – laboratory blank contamination |

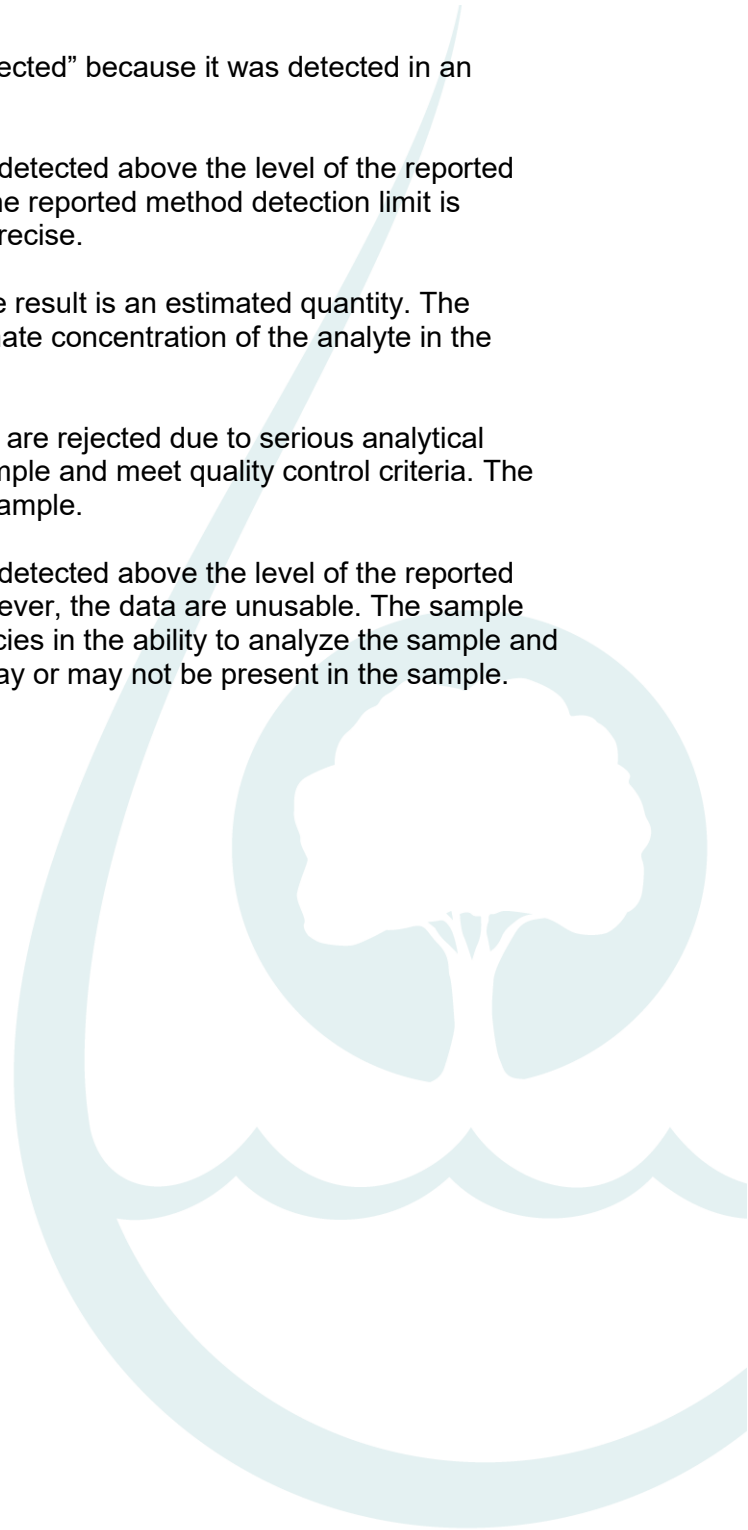
| <u>Laboratory SDG</u> | <u>Sample(s)</u> | <u>Analyte(s)</u> | <u>Qualifier</u> | <u>Reason for Qualification</u> |
|-----------------------|--|-------------------|------------------|----------------------------------|
| 680-221504-1 | MCM-01, MCM-02, MCM-05, MCM-07, MCM-11, MCM-12, MCM-14, MCM-15, MCM-16, and MCM-17 | selenium | UJ | M- – Low MS/MSD recoveries |
| 680-221504-1 | MCM-06, MCM-20, DPZ-2, PT-01, PT-02, PT-03, DR-01, DR-02 and PT-04D | sulfide | J | M- – Low MS/MSD recoveries |
| 680-221504-1 | MCM-06 | chloride | J | FD – Field duplicate imprecision |

- All inorganic positive results reported between the method detection limit (MDL) and RL have been flagged “J”.

Report prepared by: Wendy Zhou, Senior Quality Assurance Chemist
 Report reviewed by: Alyssa M. Reed, Senior Quality Assurance Chemist/Project Manager
 Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
 Date: 12/28/2022

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 |

**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 20 groundwater samples collected as part of the September 2022 semi-annual monitoring at the Georgia Power McManus Fossil Plant facility. These samples were collectively analyzed by TestAmerica Laboratories, Inc. of Earth City, Missouri (Eurofins St. Louis), for radium-226 by SW-846 Method 9315, for radium-228 by SW-846 Method 9320, 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 SW-846 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 SW-846 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 9/20/2022 and 9/21/2022 were evaluated as part of this QA review.

The following samples were evaluated as part of this QA review: MCM-18, MCM-19, MCM-06, MCM-20, DPZ-2, PT-01, PT-02, PT-03, MCM-01, MCM-02, MCM-04, MCM-05, MCM-07, MCM-11, MCM-12, MCM-14, MCM-15, MCM-16, MCM-17, and PT-04D.

The following Eurofins radiological SDGs were evaluated as part of this QA review: 680-221504-2.

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/matrix spike duplicate (MS/MSD) recoveries and precision
- 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. These negative activities were used in the calculation of combined radium-226+228 activity; therefore, it is possible for the combined radium-226+228 to be less than one of the individual isotopes.
3. The combined radium-226+228 sample-specific minimum detectable concentration (MDC) was reported as the higher 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.

| <u>Laboratory SDG(s)</u> | <u>Sample</u> | <u>Field Duplicate</u> |
|--------------------------|---------------|------------------------|
| 680-221504-2 | MCM-06 | DUP-1 |
| 680-221504-2 | MCM-15 | DUP-2 |

Overall Assessment of Data

Based on a review of the data, qualification of data was warranted as noted below.

| <u>Laboratory SDG</u> | <u>Sample(s)</u> | <u>Analyte(s)</u> | <u>Qualifier</u> | <u>Reason for Qualification</u> |
|-----------------------|------------------------------------|-------------------------|------------------|--|
| 680-221504-2 | MCM-02 | combined radium-226+228 | U* | BE – equipment blank contamination BF – field blank contamination |
| 680-221504-2 | MCM-11 | combined radium-226+228 | U* | BE – equipment blank contamination |
| 680-221504-2 | MCM-06 and PT-03 | combined radium-226+228 | J | BF – field blank contamination |
| 680-221504-2 | MCM-04, MCM-12, MCM-16, and PT-04D | combined radium-226+228 | J | BL – lab blank contamination |

- 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/Project Manager
 Report approved by: David I. Thal, CEAC, CQA, Principal Chemist
 Date: 11/23/2022

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 |

EQUIPMENT CALIBRATION LOG

| | | | |
|--|--|---------------------------------|-----------------------|
| Field Technician: <u>Meredith Duncan</u> | Date: <u>6/28/22</u> | Time (Calibration): <u>0915</u> | Time (Mid-day Check): |
| AquaTroll SN: <u>893479</u> | Turbidity Meter Type: <u>7042-3818</u> | SN: | |
| Project: | Weather Conditions: <u>Hot 90° ~</u> | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt. 100% water saturated air cal) | | | | <u>103.16</u> | |
| Specific Conductance (µS/cm) | <u>21470032 04/23</u> | <u>31.13</u> | <u>4490</u> | <u>4362.3</u> | |
| pH (4) | <u>21470032 04/24</u> | <u>31.15</u> | <u>4</u> | <u>3.91</u> | |
| pH (7) | <u>21380102 04/23</u> | <u>30.32</u> | <u>7</u> | <u>6.80</u> | |
| pH (10) | <u>20080056 04/23</u> | <u>29.93</u> | <u>10</u> | <u>9.73</u> | |
| ORP (mV) | <u>21140143 04/23</u> | <u>29.87</u> | <u>228</u> | <u>221.3</u> | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|--------------------|-------|----|----------|
| Turbidity 0 NTU | <u>0</u> | <u>0.01</u> | <u>+/-0.5 NTU</u> | Yes | No | |
| Turbidity 1 NTU | <u>1</u> | <u>1.02</u> | <u>+/- 0.5 NTU</u> | Yes | No | |
| Turbidity 10 NTU | <u>10</u> | <u>9.63</u> | <u>+/- 0.5 NTU</u> | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|-------------------|-------|----|----------|
| Mid-Day pH (4) check | <u>31.15</u> | <u>4</u> | <u>4.23</u> | <u>+/- 0.1 SU</u> | Yes | No | |
| Mid-Day pH (7) check | <u>31.03</u> | <u>7</u> | <u>7.28</u> | <u>+/- 0.1 SU</u> | Yes | No | |
| Mid-Day pH (10) check | <u>31.15</u> | <u>10</u> | <u>10.26</u> | <u>+/- 0.1 SU</u> | Yes | No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Robert Mull Date: 6/28/22 Time (Calibration): 1330 Time (Mid-day Check): 1624
 Aqua Troll SN: 789310 Turbidity Meter Type: LaMotte 2000e SN:
 Project: McManus Weather Conditions: Sunny, 93°F

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 105.19% | |
| Specific Conductance (µS/cm) | 21070193 8/22 | 33.59 | 4490 | 4813.7 | |
| pH (4) | 21070193 8/22 | 33.91 | 4 | 4.03 | |
| pH (7) | 21010066 8/22 | 35.21 | 7 | 7.05 | |
| pH (10) | 21080189 6/22 | 35.91 | 10 | 10.01 | |
| ORP (mV) | 21140141 8/22 | 36.02 | 228 | 28.7 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|-------------------|--------------------|------------------|---|----------|
| Turbidity 0 NTU | 0 | 0.14 | ±0.5 NTU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Turbidity 1 NTU | 1 | 1.10 | ±0.5 NTU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Turbidity 10 NTU | 10 | 9.66 | ±0.5 NTU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|--------|----------|
| Mid-Day pH (4) check | 33.61 | 4 | 4.25 | ±0.1 SU | Yes No | |
| Mid-Day pH (7) check | 33.34 | 7 | 7.25 | ±0.1 SU | Yes No | |
| Mid-Day pH (10) check | 32.73 | 10 | 10.24 | ±0.1 SU | Yes No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|---|----------------------------------|-----------------------|
| Field Technician: William Laaker | Date: 6/28/22 | Time (Calibration): 13:42 | Time (Mid-day Check): |
| AquaTroll SN: 789301 | Turbidity Meter Type: LaMotte 2020 | SN: 9429-4417 | |
| Project: June 2022 Sampling | Weather Conditions: 89°/76° sunny | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 114.16 | |
| Specific Conductance (µS/cm) | 21070193 8/22 | 34.78 | 4490 | 4440.8 | |
| pH (4) | 21070193 8/22 | 34.54 | 4 | 4.04 | |
| pH (7) | 21010066 8/22 | 33.24 | 7 | 6.98 | |
| pH (10) | 21080189 6/22 | 33.06 | 10 | 10.25 | |
| ORP (mV) | 21140141 8/22 | 32.74 | 228 | 218.1 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|--------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.00 | +/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 0.91 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 9.67 | +/- 0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|-------------------|-------|----|----------|
| Mid-Day pH (4) check | 31.87 | 4 | 4.10 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | 31.96 | 7 | 7.15 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | 32.11 | 10 | 10.12 | +/- 0.1 SU | Yes | No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|--|---------------------------------------|---------------------------------|-----------------------------------|
| Field Technician: Meredith Duncan | Date: 6/29/22 | Time (Calibration): 0825 | Time (Mid-day Check): 1050 |
| AquaTroll SN: 893479 | Turbidity Meter Type: la motte | SN: 7042-3818 | |
| Project: | Weather Conditions: | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt. 100% water saturated air cal) | | | | 99.97 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 28.39 | 4490 | 4432.9 | |
| pH (4) | 21470032 04/24 | 28.95 | 4 | 3.82 | |
| pH (7) | 21380102 04/23 | 28.72 | 7 | 6.72 | |
| pH (10) | 20080056 04/23 | 21.63 | 10 | 9.67 | |
| ORP (mV) | 21140143 04/23 | 27.67 | 228 | 226.5 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.00 | +/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 1.12 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 10.38 | +/- 0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | 30.73 | 4 | 4.18 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | 30.70 | 7 | 7.25 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | 31.64 | 10 | 10.17 | +/- 0.1 SU | Yes | No | |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 11:16:08 AM
Project: June 2022 Remedy Well Sampling
Operator Name: Meredith Duncan

| | | |
|---|---|--|
| Location Name: DPZ-02 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 30.5 ft Total Depth: 40.5 ft Initial Depth to Water: 6.86 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 35.5 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|---|---|--|

Test Notes:
Prepurge 5L
Sulfur smell

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 6/28/2022 11:16 AM | 00:00 | 7.16 pH | 24.83 °C | 22,039 µS/cm | 0.16 mg/L | 3.33 NTU | -206.4 mV | 6.86 ft | 180.00 ml/min |
| 6/28/2022 11:20 AM | 04:00 | 7.10 pH | 24.88 °C | 22,363 µS/cm | 0.13 mg/L | 1.09 NTU | -198.6 mV | 6.89 ft | 180.00 ml/min |
| 6/28/2022 11:24 AM | 08:00 | 7.09 pH | 24.79 °C | 22,419 µS/cm | 0.12 mg/L | 0.81 NTU | -196.8 mV | 6.90 ft | 180.00 ml/min |
| 6/28/2022 11:28 AM | 12:00 | 7.08 pH | 24.75 °C | 22,775 µS/cm | 0.12 mg/L | 1.15 NTU | -195.0 mV | 6.93 ft | 180.00 ml/min |
| 6/28/2022 11:32 AM | 16:00 | 7.09 pH | 24.98 °C | 23,014 µS/cm | 0.11 mg/L | 1.02 NTU | -193.8 mV | 6.95 ft | 180.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| DPZ-02 | Total Metals, Diss. Metals, TDS, Inorganics, Alkalinity, Sulfide |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 1:50:38 PM
Project: June 2022 Remedy Well Sampling
Operator Name: Meredith Duncan

| | | |
|--|--|--|
| Location Name: PT-04D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.85 ft Total Depth: 40.85 ft Initial Depth to Water: 5.75 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 35.85 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|--|--|--|

Test Notes:
Prepurge 3L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 6/28/2022 1:50 PM | 00:00 | 7.28 pH | 25.21 °C | 20,456 µS/cm | 0.18 mg/L | 1.39 NTU | -195.1 mV | 5.75 ft | 200.00 ml/min |
| 6/28/2022 1:54 PM | 04:00 | 7.25 pH | 24.82 °C | 20,602 µS/cm | 0.14 mg/L | 1.08 NTU | -189.1 mV | 5.79 ft | 200.00 ml/min |
| 6/28/2022 1:58 PM | 08:00 | 7.24 pH | 24.76 °C | 20,565 µS/cm | 0.12 mg/L | 0.78 NTU | -189.3 mV | 5.80 ft | 200.00 ml/min |
| 6/28/2022 2:02 PM | 12:00 | 7.24 pH | 24.61 °C | 20,506 µS/cm | 0.11 mg/L | 0.92 NTU | -188.8 mV | 5.81 ft | 200.00 ml/min |
| 6/28/2022 2:06 PM | 16:00 | 7.23 pH | 24.53 °C | 20,551 µS/cm | 0.10 mg/L | 0.88 NTU | -188.4 mV | 5.83 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| PT-04D | Total Metals, Diss. Metals, TDS, Inorganics, Alkalinity, Sulfide |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 2:26:22 PM
Project: June 2022 Remedy Well Sampling
Operator Name: Robert Mull

| | | |
|---|--|--|
| 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: 5.45 ft | Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 20.36 ft Estimated Total Volume Pumped: 3133.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789310 |
|---|--|--|

Test Notes:
Prepurged 1L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|------------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 % | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 % | +/- 0.3 | |
| 6/28/2022 2:26 PM | 00:00 | 6.77 pH | 27.39 °C | 5,377.8 µS/cm | 0.51 mg/L | 9.17 NTU | 11.8 mV | 5.53 ft | 200.00 ml/min |
| 6/28/2022 2:26 PM | 00:26 | 6.78 pH | 27.00 °C | 5,462.4 µS/cm | 0.49 mg/L | 9.17 NTU | 5.1 mV | 5.53 ft | 200.00 ml/min |
| 6/28/2022 2:30 PM | 03:40 | 6.81 pH | 26.13 °C | 5,502.2 µS/cm | 0.25 mg/L | 3.42 NTU | -32.2 mV | 5.56 ft | 200.00 ml/min |
| 6/28/2022 2:34 PM | 07:40 | 6.83 pH | 25.81 °C | 5,513.9 µS/cm | 0.16 mg/L | 2.48 NTU | -54.6 mV | 5.57 ft | 200.00 ml/min |
| 6/28/2022 2:38 PM | 11:40 | 6.84 pH | 25.54 °C | 5,529.5 µS/cm | 0.11 mg/L | 2.34 NTU | -65.1 mV | 5.58 ft | 200.00 ml/min |
| 6/28/2022 2:42 PM | 15:40 | 6.85 pH | 25.45 °C | 5,531.9 µS/cm | 0.09 mg/L | 1.94 NTU | -70.6 mV | 5.59 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| PT-03 | Total metals, diss metals, tds, inorganics, Alkalinity, sulfide |
| DUP-1 | Total metals, diss metals, tds, inorganics, Alkalinity, sulfide |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 2:31:49 PM
Project: June 2022 Remedy Well Sampling
Operator Name: William Laaker

| | | |
|--|--|--|
| 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: 5.6 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 23.08 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.08 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 % | |
| 6/28/2022 2:31 PM | 00:00 | 7.00 pH | 27.10 °C | 10,413 µS/cm | 0.16 mg/L | 3.28 NTU | -102.8 mV | 5.63 ft | 5.97 PSU | 150.00 ml/min |
| 6/28/2022 2:35 PM | 04:00 | 7.02 pH | 26.88 °C | 10,477 µS/cm | 0.12 mg/L | 3.22 NTU | -105.7 mV | 5.64 ft | 6.01 PSU | 150.00 ml/min |
| 6/28/2022 2:39 PM | 08:00 | 7.06 pH | 26.69 °C | 10,550 µS/cm | 0.10 mg/L | 3.29 NTU | -109.2 mV | 5.66 ft | 6.05 PSU | 150.00 ml/min |
| 6/28/2022 2:43 PM | 12:00 | 7.07 pH | 26.60 °C | 10,643 µS/cm | 0.09 mg/L | 2.10 NTU | -111.7 mV | 5.67 ft | 6.11 PSU | 150.00 ml/min |
| 6/28/2022 2:47 PM | 16:00 | 7.08 pH | 26.41 °C | 10,637 µS/cm | 0.08 mg/L | 1.82 NTU | -112.8 mV | 5.68 ft | 6.11 PSU | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| DR-01 | Total metals, Diss. Metals, Inorganics, TDS, Alkalinity, Sulfide |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 3:12:59 PM
Project: June 2022 Remedy Well Sampling
Operator Name: Meredith Duncan

| | | |
|---|--|--|
| 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: 5.86 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 19.38 ft Estimated Total Volume Pumped: 7040 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: 893479 |
|---|--|--|

Test Notes:
Prepurge 3L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 6/28/2022 3:12 PM | 00:00 | 7.27 pH | 25.15 °C | 8,760.8 µS/cm | 0.07 mg/L | 2.65 NTU | -208.9 mV | 5.86 ft | 220.00 ml/min |
| 6/28/2022 3:16 PM | 04:00 | 7.25 pH | 24.99 °C | 8,906.1 µS/cm | 0.05 mg/L | 2.50 NTU | -198.2 mV | 5.87 ft | 220.00 ml/min |
| 6/28/2022 3:20 PM | 08:00 | 7.23 pH | 24.98 °C | 8,998.2 µS/cm | 0.04 mg/L | 3.15 NTU | -196.7 mV | 5.88 ft | 220.00 ml/min |
| 6/28/2022 3:24 PM | 12:00 | 7.23 pH | 24.93 °C | 9,728.6 µS/cm | 0.03 mg/L | 3.38 NTU | -195.5 mV | 5.89 ft | 220.00 ml/min |
| 6/28/2022 3:28 PM | 16:00 | 7.24 pH | 24.89 °C | 10,609 µS/cm | 0.03 mg/L | 3.05 NTU | -199.4 mV | 5.90 ft | 220.00 ml/min |
| 6/28/2022 3:32 PM | 20:00 | 7.25 pH | 24.90 °C | 10,737 µS/cm | 0.03 mg/L | 2.77 NTU | -200.2 mV | 5.91 ft | 220.00 ml/min |
| 6/28/2022 3:36 PM | 24:00 | 7.25 pH | 24.88 °C | 10,798 µS/cm | 0.03 mg/L | 2.76 NTU | -199.9 mV | 5.91 ft | 220.00 ml/min |
| 6/28/2022 3:40 PM | 28:00 | 7.24 pH | 24.95 °C | 10,793 µS/cm | 0.02 mg/L | 2.64 NTU | -200.3 mV | 5.92 ft | 220.00 ml/min |
| 6/28/2022 3:44 PM | 32:00 | 7.24 pH | 24.93 °C | 10,851 µS/cm | 0.02 mg/L | 2.58 NTU | -200.6 mV | 5.93 ft | 220.00 ml/min |

Samples

| Sample ID: | Description: T |
|------------|--|
| PT-01 | Total Metals, Diss. Metals, TDS, Inorganics, Alkalinity, Sulfide |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 3:29:12 PM
Project: June 2022 Remedy Well Sampling
Operator Name: William Laaker

| | | |
|--|---|--|
| 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: 8.27 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 22.2 ft Estimated Total Volume Pumped: 4680 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.13 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 % | |
| 6/28/2022 3:29 PM | 00:00 | 7.12 pH | 27.28 °C | 8,564.8 µS/cm | 0.09 mg/L | 9.73 NTU | -115.2 mV | 8.38 ft | 4.84 PSU | 190.00 ml/min |
| 6/28/2022 3:33 PM | 04:00 | 7.16 pH | 26.94 °C | 8,219.1 µS/cm | 0.06 mg/L | 10.13 NTU | -111.4 mV | 8.38 ft | 4.63 PSU | 190.00 ml/min |
| 6/28/2022 3:37 PM | 08:00 | 7.16 pH | 27.24 °C | 8,615.8 µS/cm | 0.05 mg/L | 10.39 NTU | -114.6 mV | 8.38 ft | 4.87 PSU | 190.00 ml/min |
| 6/28/2022 3:41 PM | 12:00 | 7.23 pH | 27.58 °C | 9,573.9 µS/cm | 0.04 mg/L | 5.39 NTU | -120.0 mV | 8.38 ft | 5.45 PSU | 150.00 ml/min |
| 6/28/2022 3:45 PM | 16:00 | 7.26 pH | 27.51 °C | 9,859.4 µS/cm | 0.05 mg/L | 3.19 NTU | -125.1 mV | 8.38 ft | 5.63 PSU | 150.00 ml/min |
| 6/28/2022 3:49 PM | 20:00 | 7.28 pH | 27.52 °C | 9,897.3 µS/cm | 0.04 mg/L | 3.23 NTU | -127.9 mV | 8.39 ft | 5.65 PSU | 150.00 ml/min |
| 6/28/2022 3:53 PM | 24:00 | 7.28 pH | 27.42 °C | 9,911.5 µS/cm | 0.04 mg/L | 2.00 NTU | -129.6 mV | 8.39 ft | 5.66 PSU | 150.00 ml/min |
| 6/28/2022 3:57 PM | 28:00 | 7.28 pH | 27.42 °C | 9,973.0 µS/cm | 0.04 mg/L | 1.70 NTU | -129.8 mV | 8.40 ft | 5.70 PSU | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| MCM-06 | Total metals, Diss. Metals, Inorganics, TDS, Alkalinity, Sulfide |

Low-Flow Test Report:

Test Date / Time: 6/28/2022 3:36:58 PM
Project: June 2022 Remedy Well Sampling
Operator Name: Robert Mull

| | | |
|---|--|--|
| 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: 5.68 ft | Pump Type: Peristaltic Tubing Type: LDPE Pump Intake From TOC: 22.53 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.07 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789310 |
|---|--|--|

Test Notes:
Prepurged 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|------------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 % | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 % | +/- 0.3 | |
| 6/28/2022 3:36 PM | 00:00 | 7.58 pH | 25.56 °C | 9,700.7 µS/cm | 0.11 mg/L | 2.05 NTU | -151.7 mV | 5.71 ft | 225.00 ml/min |
| 6/28/2022 3:40 PM | 04:00 | 7.64 pH | 25.04 °C | 10,002 µS/cm | 0.08 mg/L | 1.72 NTU | -156.2 mV | 5.73 ft | 225.00 ml/min |
| 6/28/2022 3:44 PM | 08:00 | 7.64 pH | 24.68 °C | 9,988.0 µS/cm | 0.06 mg/L | 1.82 NTU | -158.5 mV | 5.73 ft | 225.00 ml/min |
| 6/28/2022 3:48 PM | 12:00 | 7.61 pH | 24.54 °C | 9,962.2 µS/cm | 0.05 mg/L | 1.84 NTU | -163.4 mV | 5.74 ft | 225.00 ml/min |
| 6/28/2022 3:52 PM | 16:00 | 7.62 pH | 24.39 °C | 10,169 µS/cm | 0.05 mg/L | 1.82 NTU | -164.5 mV | 5.75 ft | 225.00 ml/min |
| 6/28/2022 3:56 PM | 20:00 | 7.68 pH | 24.34 °C | 10,475 µS/cm | 0.04 mg/L | 1.66 NTU | -167.9 mV | 5.75 ft | 225.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| DR-02 | Total metals, diss metals, TDS, Inorganics, alkalinity, sulfide |

Low-Flow Test Report:

Test Date / Time: 6/29/2022 9:20:19 AM
Project: June 2022 Remedy Well Sampling
Operator Name: Meredith Duncan

| | | |
|--|---|--|
| 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: 4.6 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 19.38 ft Estimated Total Volume Pumped: 6400 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: 893479 |
|--|---|--|

Test Notes:
 Prepurge 1L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 6/29/2022 9:20 AM | 00:00 | 7.22 pH | 25.95 °C | 6,632.8 µS/cm | 0.21 mg/L | 6.29 NTU | -164.1 mV | 4.60 ft | 200.00 ml/min |
| 6/29/2022 9:24 AM | 04:00 | 7.23 pH | 25.37 °C | 6,697.2 µS/cm | 0.14 mg/L | 5.28 NTU | -159.0 mV | 4.57 ft | 200.00 ml/min |
| 6/29/2022 9:28 AM | 08:00 | 7.24 pH | 25.20 °C | 6,733.8 µS/cm | 0.11 mg/L | 3.37 NTU | -157.9 mV | 4.55 ft | 200.00 ml/min |
| 6/29/2022 9:32 AM | 12:00 | 7.31 pH | 25.06 °C | 8,400.8 µS/cm | 0.09 mg/L | 2.97 NTU | -171.3 mV | 4.54 ft | 200.00 ml/min |
| 6/29/2022 9:36 AM | 16:00 | 7.33 pH | 25.06 °C | 8,927.2 µS/cm | 0.08 mg/L | 2.48 NTU | -177.9 mV | 4.52 ft | 200.00 ml/min |
| 6/29/2022 9:40 AM | 20:00 | 7.34 pH | 24.82 °C | 8,930.2 µS/cm | 0.08 mg/L | 2.15 NTU | -178.1 mV | 4.51 ft | 200.00 ml/min |
| 6/29/2022 9:44 AM | 24:00 | 7.34 pH | 24.98 °C | 8,917.7 µS/cm | 0.07 mg/L | 1.93 NTU | -179.1 mV | 4.50 ft | 200.00 ml/min |
| 6/29/2022 9:48 AM | 28:00 | 7.34 pH | 25.05 °C | 8,892.2 µS/cm | 0.07 mg/L | 1.55 NTU | -179.8 mV | 4.48 ft | 200.00 ml/min |
| 6/29/2022 9:52 AM | 32:00 | 7.34 pH | 24.96 °C | 8,848.0 µS/cm | 0.07 mg/L | 2.05 NTU | -179.8 mV | 4.47 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: T |
|------------|--|
| PT-02 | Total Metals, Diss. Metals, TDS, Inorganics, Alkalinity, Sulfide |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|--|--|-----------------------------------|
| Field Technician: <u>Kevin Stephenson</u> | Date: <u>9/20/22</u> | Time (Calibration): <u>1014</u> | Time (Mid-day Check): <u>1648</u> |
| AquaTroll SN: <u>789317</u> | Turbidity Meter Type: <u>LaMotte 2020</u> SN: <u>2068-0320</u> | | |
| Project: <u>2022 Syst. Semi-annual Sample</u> | | Weather Conditions: <u>90°/68° 30% 30%</u> | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | <u>86.43%</u> | |
| Specific Conductance (µS/cm) | <u>21470032 04/23</u> | <u>25.72</u> | <u>4490</u> | <u>4,504.3</u> | |
| pH (4) | <u>21470032 04/23</u> | <u>26.14</u> | <u>4</u> | <u>4.13</u> | |
| pH (7) | <u>21380102 04/23</u> | <u>26.32</u> | <u>7</u> | <u>7.01</u> | |
| pH (10) | <u>20080056 04/23</u> | <u>26.36</u> | <u>10</u> | <u>9.94</u> | |
| ORP (mV) | <u>21140143 04/23</u> | <u>26.41</u> | <u>228</u> | <u>223.8</u> | |

| | | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|--|-------------------|--------------------|--------------------|---|----------|
| Turbidity 0 NTU | | <u>0</u> | <u>0.03</u> | <u>-/-0.5 NTU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | <u>1</u> | <u>1.14</u> | <u>+/- 0.5 NTU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | <u>10</u> | <u>9.81</u> | <u>-/- 0.5 NTU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|-------------------|---|----------|
| Mid-Day pH (4) check | <u>28.91</u> | <u>4</u> | <u>4.23</u> | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | <u>28.91</u> | <u>7</u> | <u>7.11</u> | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | <u>29.02</u> | <u>10</u> | <u>10.08</u> | <u>+/- 0.1 SU</u> | <input type="radio"/> Yes <input checked="" type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|---|---------------------------------|------------------------------------|
| Field Technician: <u>William Laaker</u> | Date: <u>9/20/22</u> | Time (Calibration): <u>8:00</u> | Time (Mid-day Check): <u>17:30</u> |
| AquaTroll SN: <u>789301</u> | Turbidity Meter Type: <u>LaMotte 2020</u> | SN: <u>9453-4417</u> | |
| Project: <u>Sept. 2022 CCR Sampling</u> | Weather Conditions: <u>89°/70° fog, sunny</u> | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 99.42 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 24.20 | 4490 | 4482.4 | |
| pH (4) | 21470032 04/23 | 24.51 | 4 | 4.05 | |
| pH (7) | 21380102 04/23 | 24.47 | 7 | 7.05 | |
| pH (10) | 20080056 04/23 | 25.30 | 10 | 10.03 | |
| ORP (mV) | 21140143 04/23 | 24.83 | 228 | 218.9 | |

| | | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|--|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | | 0 | 0.00 | +/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | | 1 | 0.97 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | | 10 | 9.88 | +/- 0.5 NTU | Yes | No | |

| | | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|--|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | | 38.17 | 4 | 4.09 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | | 38.12 | 7 | 7.11 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | | 38.34 | 10 | 10.08 | +/- 0.1 SU | Yes | No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|-----------------------------------|--------------------------------|----------------------------|------------------------------|
| Field Technician: Meredith Duncan | Date: 9/20/22 | 0745 Time (Calibration) | 1730 Time (Mid-day Check) |
| AquaTroll SN: 893479 | Turbidity Meter Type: la Motte | SN: 9429-4417 | |
| Project: McManus GW | Weather Conditions: 75° Foggy | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 100.85 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 23.82 | 4490 | 4494.3 | |
| pH (4) | 21470032 04/23 | 23.92 | 4 | 4.04 | |
| pH (7) | 21380102 04/23 | 24.07 | 7 | 7.03 | |
| pH (10) | 20080056 04/23 | 24.12 | 10 | 10.10 | |
| ORP (mV) | 21140143 04/23 | 24.10 | 228 | 225.6 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|-------------------|--------------------|------------------|--------|----------|
| Turbidity 0 NTU | 0 | 0.00 | +/- 0.5 NTU | Yes No | |
| Turbidity 1 NTU | 1 | 1.06 | +/- 0.5 NTU | Yes No | |
| Turbidity 10 NTU | 10 | 9.64 | +/- 0.5 NTU | Yes No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|--------|----------|
| Mid-Day pH (4) check | 30.64 | 4 | 4.22 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (7) check | 30.89 | 7 | 7.25 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (10) check | 31.73 | 10 | 10.19 | +/- 0.1 SU | Yes No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|--|---|--------------------------------|----------------------|
| Field Technician <u>Kevin Stephenson</u> | Date <u>9/21/22</u> | Time (Calibration) <u>1010</u> | Time (Mid-day Check) |
| AquaTroll SN <u>789317</u> | Turbidity Meter Type <u>Lamotte 2020</u> | SN <u>2008-0320</u> | |
| Project <u>2022 Sept. Semi-annual Sample</u> | Weather Conditions <u>90°/70°/30% 90°/70°/30%</u> | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | <u>111.74%</u> | |
| Specific Conductance (µS/cm) | 21470032 04/23 | <u>24.80</u> | 4490 | <u>4402.7</u> | |
| pH (4) | 21470032 04/24 | <u>24.82</u> | 4 | <u>3.95</u> | |
| pH (7) | 21380102 04/23 | <u>24.95</u> | 7 | <u>7.02</u> | |
| pH (10) | 20080056 04/23 | <u>27.38</u> | 10 | <u>10.14</u> | |
| ORP (mV) | 21140143 04/23 | <u>26.44</u> | 228 | <u>223.4</u> | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|-------------------|--------------------|------------------|--------|----------|
| Turbidity 0 NTU | 0 | <u>0.00</u> | ±0.5 NTU | Yes No | |
| Turbidity 1 NTU | 1 | <u>1.05</u> | ±0.5 NTU | Yes No | |
| Turbidity 10 NTU | 10 | <u>9.91</u> | ±0.5 NTU | Yes No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|--------|----------|
| Mid-Day pH (4) check | <u>28.74</u> | 4 | <u>4.22</u> | ±0.1 SU | Yes No | |
| Mid-Day pH (7) check | <u>29.21</u> | 7 | <u>7.22</u> | ±0.1 SU | Yes No | |
| Mid-Day pH (10) check | <u>29.17</u> | 10 | <u>9.99</u> | ±0.1 SU | Yes No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|--|---------------------------------------|---------------------------------|-----------------------------------|
| Field Technician: Meredith Duncan | Date: 9/21/22 | Time (Calibration): 0905 | Time (Mid-day Check): 1900 |
| AquaTroll SN: 893478 | Turbidity Meter Type: La motte | | SN: 9429-4417 |
| Project: McManus | Weather Conditions: 80° | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 99.41 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 24.97 | 4490 | 4510.1 | |
| pH (4) | 21470032 04/23 | 25.10 | 4 | 3.80 | |
| pH (7) | 21380102 04/23 | 24.72 | 7 | 6.70 | |
| pH (10) | 20080056 04/23 | 24.79 | 10 | 9.72 | |
| ORP (mV) | 21140143 04/23 | 24.95 | 228 | 229.8 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.03 | +/- 0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 0.89 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 9.62 | +/- 0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | 29.46 | 4 | 4.21 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | 29.11 | 7 | 7.27 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | 28.65 | 10 | 10.28 | +/- 0.1 SU | Yes | No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|---|---------------------------------|------------------------------------|
| Field Technician: William Laaker | Date: 9/21/22 | Time (Calibration): 6:45 | Time (Mid-day Check): 17:15 |
| AquaTroll SN: 789301 | Turbidity Meter Type: LaMotte 2020 | SN: 9453-4417 | |
| Project: Sept. 2022 CCR Sampling Surface Water | Weather Conditions: 89°/66° sunny | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 101.03 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 23.46 | 4490 | 4468.7 | |
| pH (4) | 21470032 04/23 | 23.16 | 4 | 4.07 | |
| pH (7) | 21380102 04/23 | 23.17 | 7 | 7.10 | |
| pH (10) | 20080056 04/23 | 23.25 | 10 | 10.10 | |
| ORP (mV) | 21140143 04/23 | 23.31 | 228 | 222.8 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.01 | +/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 0.82 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 9.65 | +/- 0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | 28.93 | 4 | 4.14 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | 29.14 | 7 | 7.15 | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | 29.67 | 10 | 10.17 | +/- 0.1 SU | Yes | No | |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 9:40:09 AM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|---|---|--|
| 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: 4.98 ft | Pump Type: GeoTech Peristaltic Tubing Type: PVC Pump Intake From TOC: 19.38 ft Estimated Total Volume Pumped: 3360 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|---|---|--|

Test Notes:

Prepurge 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/20/2022 9:40 AM | 00:00 | 7.03 pH | 26.06 °C | 6,810.7 µS/cm | 0.14 mg/L | 3.04 NTU | -187.0 mV | 4.98 ft | 140.00 ml/min |
| 9/20/2022 9:44 AM | 04:00 | 7.05 pH | 25.54 °C | 7,074.3 µS/cm | 0.10 mg/L | 3.77 NTU | -191.7 mV | 5.01 ft | 140.00 ml/min |
| 9/20/2022 9:48 AM | 08:00 | 7.09 pH | 25.20 °C | 7,894.9 µS/cm | 0.07 mg/L | 2.08 NTU | -193.9 mV | 5.05 ft | 140.00 ml/min |
| 9/20/2022 9:52 AM | 12:00 | 7.10 pH | 25.88 °C | 8,200.5 µS/cm | 0.07 mg/L | 1.33 NTU | -196.6 mV | 5.04 ft | 140.00 ml/min |
| 9/20/2022 9:56 AM | 16:00 | 7.11 pH | 25.97 °C | 8,271.2 µS/cm | 0.07 mg/L | 1.37 NTU | -196.7 mV | 5.05 ft | 140.00 ml/min |
| 9/20/2022 10:00 AM | 20:00 | 7.11 pH | 25.98 °C | 8,153.4 µS/cm | 0.05 mg/L | 1.19 NTU | -196.8 mV | 5.05 ft | 140.00 ml/min |
| 9/20/2022 10:04 AM | 24:00 | 7.12 pH | 25.87 °C | 8,272.4 µS/cm | 0.04 mg/L | 0.98 NTU | -196.3 mV | 5.07 ft | 140.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| PT-01 | Metals, Inorganics, TDS, Sulfide, Dis. Fe, Radium, As. Spec |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 9:46:10 AM

Project: September 2022 McManus CCR Event

Operator Name: William Laaker

| | | |
|--|--|--|
| 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: 7.34 ft | Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 22.2 ft Estimated Total Volume Pumped: 4800 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: 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 % | |
| 9/20/2022 9:46 AM | 00:00 | 7.30 pH | 25.60 °C | 6,946.6 µS/cm | 0.02 mg/L | 5.24 NTU | -80.1 mV | 7.53 ft | 3.87 PSU | 200.00 ml/min |
| 9/20/2022 9:50 AM | 04:00 | 7.33 pH | 25.51 °C | 6,999.2 µS/cm | 0.01 mg/L | 4.50 NTU | -62.1 mV | 7.56 ft | 3.90 PSU | 200.00 ml/min |
| 9/20/2022 9:54 AM | 08:00 | 7.28 pH | 25.46 °C | 7,055.6 µS/cm | 0.00 mg/L | 3.72 NTU | -60.7 mV | 7.58 ft | 3.93 PSU | 200.00 ml/min |
| 9/20/2022 9:58 AM | 12:00 | 7.29 pH | 25.42 °C | 7,101.4 µS/cm | 0.00 mg/L | 2.80 NTU | -60.4 mV | 7.60 ft | 3.96 PSU | 200.00 ml/min |
| 9/20/2022 10:02 AM | 16:00 | 7.30 pH | 25.42 °C | 7,134.9 µS/cm | 0.00 mg/L | 1.97 NTU | -59.8 mV | 7.62 ft | 3.98 PSU | 200.00 ml/min |
| 9/20/2022 10:06 AM | 20:00 | 7.30 pH | 25.43 °C | 7,157.4 µS/cm | 0.00 mg/L | 1.91 NTU | -58.4 mV | 7.63 ft | 3.99 PSU | 200.00 ml/min |
| 9/20/2022 10:10 AM | 24:00 | 7.29 pH | 25.37 °C | 7,166.0 µS/cm | 0.00 mg/L | 1.82 NTU | -58.8 mV | 7.64 ft | 4.00 PSU | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| MCM-06 | Metals, Inorganics, TDS, Alkalinity, Sulfide, Dis. Fe, Radium, As Spec |
| DUP-1 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 10:40:14 AM

Project: September 2022 McManus CCR Event

Operator Name: Kevin Stephenson

| | | |
|--|--|--|
| 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: 7.71 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 18.05 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.63 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|--|--|

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 % | |
| 9/20/2022 10:40 AM | 00:00 | 3.67 pH | 24.98 °C | 15,711 µS/cm | 0.28 mg/L | 1.47 NTU | 155.4 mV | 8.28 ft | 9.31 PSU | 240.00 ml/min |
| 9/20/2022 10:44 AM | 04:00 | 3.64 pH | 24.50 °C | 16,634 µS/cm | 0.18 mg/L | 1.41 NTU | 124.9 mV | 8.29 ft | 9.90 PSU | 240.00 ml/min |
| 9/20/2022 10:48 AM | 08:00 | 3.64 pH | 24.41 °C | 16,549 µS/cm | 0.15 mg/L | 1.10 NTU | 115.2 mV | 8.31 ft | 9.85 PSU | 240.00 ml/min |
| 9/20/2022 10:52 AM | 12:00 | 3.63 pH | 24.38 °C | 16,551 µS/cm | 0.12 mg/L | 0.21 NTU | 112.6 mV | 8.32 ft | 9.85 PSU | 240.00 ml/min |
| 9/20/2022 10:56 AM | 16:00 | 3.62 pH | 24.43 °C | 16,580 µS/cm | 0.11 mg/L | 0.15 NTU | 113.6 mV | 8.33 ft | 9.87 PSU | 240.00 ml/min |
| 9/20/2022 11:00 AM | 20:00 | 3.63 pH | 24.50 °C | 16,565 µS/cm | 0.10 mg/L | 0.13 NTU | 116.4 mV | 8.34 ft | 9.86 PSU | 240.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| MCM-20 | Metals, Inorganics, TDS, Alkalinity, Sulfide, Dis. Fe, Radium, As Speciation |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 11:38:12 AM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|--|---|--|
| Location Name: DPZ-02 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.46 ft Total Depth: 43.46 ft Initial Depth to Water: 7.43 ft | Pump Type: GeoTech Peristaltic Tubing Type: PVC Pump Intake From TOC: 38.46 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|--|---|--|

Test Notes:

Prepurge 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/20/2022 11:38 AM | 00:00 | 7.11 pH | 26.44 °C | 21,351 µS/cm | 0.26 mg/L | 0.64 NTU | -210.8 mV | 7.43 ft | 160.00 ml/min |
| 9/20/2022 11:42 AM | 04:00 | 7.09 pH | 26.11 °C | 21,540 µS/cm | 0.19 mg/L | 0.54 NTU | -205.1 mV | 7.40 ft | 160.00 ml/min |
| 9/20/2022 11:46 AM | 08:00 | 7.08 pH | 25.88 °C | 21,837 µS/cm | 0.16 mg/L | 0.82 NTU | -202.7 mV | 7.42 ft | 160.00 ml/min |
| 9/20/2022 11:50 AM | 12:00 | 7.08 pH | 25.74 °C | 22,109 µS/cm | 0.14 mg/L | 0.31 NTU | -201.5 mV | 7.43 ft | 160.00 ml/min |
| 9/20/2022 11:54 AM | 16:00 | 7.07 pH | 25.74 °C | 22,338 µS/cm | 0.13 mg/L | 0.40 NTU | -200.7 mV | 7.44 ft | 160.00 ml/min |
| 9/20/2022 11:58 AM | 20:00 | 7.07 pH | 25.74 °C | 22,244 µS/cm | 0.11 mg/L | 0.20 NTU | -198.7 mV | 7.45 ft | 160.00 ml/min |
| 9/20/2022 12:02 PM | 24:00 | 7.07 pH | 25.52 °C | 22,255 µS/cm | 0.11 mg/L | 0.40 NTU | -197.0 mV | 7.46 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| DPZ-02 | Metals, Inorganics, TDS, Alkalinity, Sulfide, Dis. Fe, Radium, As. Spec |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 2:04:20 PM

Project: September 2022 McManus CCR Event

Operator Name: Kevin Stephenson

| | | |
|--|--|--|
| 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: 5.34 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 22.86 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.23 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|--|--|

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 % | |
| 9/20/2022 2:04 PM | 00:00 | 4.56 pH | 27.93 °C | 4,045.8 µS/cm | 0.23 mg/L | 0.03 NTU | 147.6 mV | 5.57 ft | 2.17 PSU | 200.00 ml/min |
| 9/20/2022 2:08 PM | 04:00 | 4.50 pH | 26.87 °C | 3,959.6 µS/cm | 0.16 mg/L | 0.23 NTU | 139.9 mV | 5.57 ft | 2.12 PSU | 200.00 ml/min |
| 9/20/2022 2:12 PM | 08:00 | 4.51 pH | 25.86 °C | 3,919.7 µS/cm | 0.14 mg/L | 0.24 NTU | 132.8 mV | 5.57 ft | 2.10 PSU | 200.00 ml/min |
| 9/20/2022 2:16 PM | 12:00 | 4.50 pH | 24.83 °C | 3,939.0 µS/cm | 0.13 mg/L | 0.21 NTU | 124.8 mV | 5.57 ft | 2.11 PSU | 200.00 ml/min |
| 9/20/2022 2:20 PM | 16:00 | 4.47 pH | 25.55 °C | 3,924.5 µS/cm | 0.11 mg/L | 0.22 NTU | 125.2 mV | 5.57 ft | 2.10 PSU | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-18 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 2:08:25 PM

Project: September 2022 McManus CCR Event

Operator Name: William Laaker

| | | |
|---|---|--|
| 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: 4.88 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 22.53 ft Estimated Total Volume Pumped: 7800 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: -0.42 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789301 |
|---|---|--|

Test Notes:

Prepurged 1 L

Incoming high tide potentially influencing stabilization.

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 % | |
| 9/20/2022 2:08 PM | 00:00 | 7.67 pH | 28.67 °C | 8,163.0 µS/cm | 0.18 mg/L | 2.40 NTU | -95.9 mV | 4.85 ft | 4.60 PSU | 150.00 ml/min |
| 9/20/2022 2:12 PM | 04:00 | 7.58 pH | 28.17 °C | 8,173.4 µS/cm | 0.15 mg/L | 2.19 NTU | -74.2 mV | 4.84 ft | 4.60 PSU | 150.00 ml/min |
| 9/20/2022 2:16 PM | 08:00 | 7.56 pH | 28.45 °C | 8,317.3 µS/cm | 0.12 mg/L | 2.13 NTU | -72.8 mV | 4.81 ft | 4.69 PSU | 150.00 ml/min |
| 9/20/2022 2:20 PM | 12:00 | 7.53 pH | 28.29 °C | 8,857.0 µS/cm | 0.09 mg/L | 1.37 NTU | -70.1 mV | 4.80 ft | 5.02 PSU | 150.00 ml/min |
| 9/20/2022 2:24 PM | 16:00 | 7.49 pH | 27.96 °C | 9,399.6 µS/cm | 0.08 mg/L | 1.21 NTU | -70.6 mV | 4.78 ft | 5.35 PSU | 150.00 ml/min |
| 9/20/2022 2:28 PM | 20:00 | 7.45 pH | 28.36 °C | 9,658.4 µS/cm | 0.08 mg/L | 1.19 NTU | -73.7 mV | 4.74 ft | 5.51 PSU | 150.00 ml/min |
| 9/20/2022 2:32 PM | 24:00 | 7.44 pH | 28.05 °C | 9,721.1 µS/cm | 0.08 mg/L | 1.03 NTU | -71.3 mV | 4.72 ft | 5.54 PSU | 150.00 ml/min |
| 9/20/2022 2:36 PM | 28:00 | 7.42 pH | 27.46 °C | 10,254 µS/cm | 0.08 mg/L | 0.99 NTU | -72.0 mV | 4.69 ft | 5.87 PSU | 150.00 ml/min |
| 9/20/2022 2:40 PM | 32:00 | 7.39 pH | 27.39 °C | 10,717 µS/cm | 0.07 mg/L | 0.84 NTU | -72.5 mV | 4.65 ft | 6.16 PSU | 150.00 ml/min |
| 9/20/2022 2:44 PM | 36:00 | 7.36 pH | 27.43 °C | 11,096 µS/cm | 0.06 mg/L | 0.72 NTU | -72.7 mV | 4.62 ft | 6.39 PSU | 150.00 ml/min |
| 9/20/2022 2:48 PM | 40:00 | 7.35 pH | 27.55 °C | 11,394 µS/cm | 0.07 mg/L | 0.62 NTU | -73.7 mV | 4.59 ft | 6.58 PSU | 150.00 ml/min |
| 9/20/2022 2:52 PM | 44:00 | 7.34 pH | 27.49 °C | 11,646 µS/cm | 0.08 mg/L | 0.65 NTU | -74.5 mV | 4.55 ft | 6.74 PSU | 150.00 ml/min |
| 9/20/2022 2:56 PM | 48:00 | 7.32 pH | 27.99 °C | 11,813 µS/cm | 0.06 mg/L | 0.70 NTU | -76.0 mV | 4.50 ft | 6.84 PSU | 150.00 ml/min |
| 9/20/2022 3:00 PM | 52:00 | 7.32 pH | 27.76 °C | 11,848 µS/cm | 0.06 mg/L | 0.56 NTU | -75.6 mV | 4.46 ft | 6.86 PSU | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| DR-02 | Metals, Inorganics, TDS, Sulfide, Dis. Fe, As Spec |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 2:09:25 PM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|---|---|--|
| 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: 4.94 ft | Pump Type: GeoTech Peristaltic Tubing Type: PVC Pump Intake From TOC: 23.08 ft Estimated Total Volume Pumped: 11200 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: 893479 |
|---|---|--|

Test Notes:

Prepurge 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/20/2022 2:09 PM | 00:00 | 7.15 pH | 26.57 °C | 5,997.1 µS/cm | 0.16 mg/L | 1.75 NTU | -192.1 mV | 4.94 ft | 200.00 ml/min |
| 9/20/2022 2:13 PM | 04:00 | 7.21 pH | 25.67 °C | 6,520.7 µS/cm | 0.13 mg/L | 1.80 NTU | -185.4 mV | 4.91 ft | 200.00 ml/min |
| 9/20/2022 2:17 PM | 08:00 | 7.24 pH | 25.77 °C | 6,800.0 µS/cm | 0.10 mg/L | 2.88 NTU | -185.2 mV | 4.89 ft | 200.00 ml/min |
| 9/20/2022 2:21 PM | 12:00 | 7.27 pH | 25.61 °C | 7,022.0 µS/cm | 0.08 mg/L | 2.70 NTU | -184.9 mV | 4.85 ft | 200.00 ml/min |
| 9/20/2022 2:25 PM | 16:00 | 7.29 pH | 25.47 °C | 7,291.5 µS/cm | 0.07 mg/L | 2.64 NTU | -185.3 mV | 4.83 ft | 200.00 ml/min |
| 9/20/2022 2:29 PM | 20:00 | 7.33 pH | 25.43 °C | 7,652.0 µS/cm | 0.07 mg/L | 1.64 NTU | -187.2 mV | 4.80 ft | 200.00 ml/min |
| 9/20/2022 2:33 PM | 24:00 | 7.35 pH | 25.37 °C | 7,961.6 µS/cm | 0.07 mg/L | 1.38 NTU | -187.4 mV | 4.77 ft | 200.00 ml/min |
| 9/20/2022 2:37 PM | 28:00 | 7.36 pH | 25.27 °C | 8,319.0 µS/cm | 0.07 mg/L | 1.01 NTU | -187.3 mV | 4.72 ft | 200.00 ml/min |
| 9/20/2022 2:41 PM | 32:00 | 7.37 pH | 25.24 °C | 8,587.2 µS/cm | 0.06 mg/L | 0.86 NTU | -187.6 mV | 4.71 ft | 200.00 ml/min |
| 9/20/2022 2:45 PM | 36:00 | 7.37 pH | 25.19 °C | 8,868.9 µS/cm | 0.06 mg/L | 0.60 NTU | -187.0 mV | 4.68 ft | 200.00 ml/min |
| 9/20/2022 2:49 PM | 40:00 | 7.36 pH | 25.15 °C | 9,093.8 µS/cm | 0.05 mg/L | 0.93 NTU | -187.0 mV | 4.64 ft | 200.00 ml/min |
| 9/20/2022 2:53 PM | 44:00 | 7.36 pH | 25.15 °C | 9,380.6 µS/cm | 0.05 mg/L | 0.66 NTU | -187.1 mV | 4.61 ft | 200.00 ml/min |
| 9/20/2022 2:57 PM | 48:00 | 7.36 pH | 25.20 °C | 9,552.8 µS/cm | 0.05 mg/L | 1.11 NTU | -186.1 mV | 4.59 ft | 200.00 ml/min |
| 9/20/2022 3:01 PM | 52:00 | 7.36 pH | 25.17 °C | 9,743.6 µS/cm | 0.05 mg/L | 0.94 NTU | -186.8 mV | 4.53 ft | 200.00 ml/min |
| 9/20/2022 3:05 PM | 56:00 | 7.36 pH | 25.14 °C | 9,877.5 µS/cm | 0.05 mg/L | 0.87 NTU | -186.6 mV | 4.50 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| DR-01 | Metals, Inorganics, TDS, Sulfide, Dis. Fe, As. Spec. |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/20/2022 3:36:06 PM

Project: September 2022 McManus CCR Event

Operator Name: Kevin Stephenson

| | | |
|--|--|--|
| 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: 6.07 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 23.32 ft Estimated Total Volume Pumped: 4480 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|--|--|

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 % | |
| 9/20/2022 3:36 PM | 00:00 | 5.18 pH | 25.46 °C | 18,265 µS/cm | 0.20 mg/L | 0.21 NTU | 141.7 mV | 6.26 ft | 10.97 PSU | 280.00 ml/min |
| 9/20/2022 3:40 PM | 04:00 | 5.16 pH | 25.37 °C | 17,923 µS/cm | 0.15 mg/L | 0.62 NTU | 132.8 mV | 6.25 ft | 10.74 PSU | 280.00 ml/min |
| 9/20/2022 3:44 PM | 08:00 | 5.14 pH | 25.45 °C | 17,739 µS/cm | 0.13 mg/L | 0.63 NTU | 127.5 mV | 6.22 ft | 10.62 PSU | 280.00 ml/min |
| 9/20/2022 3:48 PM | 12:00 | 5.14 pH | 24.86 °C | 17,657 µS/cm | 0.12 mg/L | 0.40 NTU | 123.6 mV | 6.19 ft | 10.57 PSU | 280.00 ml/min |
| 9/20/2022 3:52 PM | 16:00 | 5.14 pH | 24.86 °C | 17,407 µS/cm | 0.11 mg/L | 0.42 NTU | 120.9 mV | 6.16 ft | 10.40 PSU | 280.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-19 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 4:00:55 PM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|---|--|--|
| 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: 4.15 ft | Pump Type: GeoTech Peristaltic Tubing Type: PVC Pump Intake From TOC: 19.38 ft Estimated Total Volume Pumped: 5600 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.22 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|---|--|--|

Test Notes:

Prepurge 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/20/2022 4:00 PM | 00:00 | 7.20 pH | 28.58 °C | 5,128.7 µS/cm | 0.24 mg/L | 2.17 NTU | -172.5 mV | 4.15 ft | 200.00 ml/min |
| 9/20/2022 4:04 PM | 04:00 | 7.21 pH | 27.41 °C | 5,187.1 µS/cm | 0.14 mg/L | 1.51 NTU | -163.8 mV | 4.10 ft | 200.00 ml/min |
| 9/20/2022 4:08 PM | 08:00 | 7.21 pH | 26.94 °C | 5,224.4 µS/cm | 0.11 mg/L | 0.66 NTU | -161.8 mV | 4.07 ft | 200.00 ml/min |
| 9/20/2022 4:12 PM | 12:00 | 7.40 pH | 26.57 °C | 6,937.5 µS/cm | 0.09 mg/L | 0.70 NTU | -181.9 mV | 4.05 ft | 200.00 ml/min |
| 9/20/2022 4:16 PM | 16:00 | 7.40 pH | 26.41 °C | 6,920.6 µS/cm | 0.08 mg/L | 0.58 NTU | -180.6 mV | 4.02 ft | 200.00 ml/min |
| 9/20/2022 4:20 PM | 20:00 | 7.39 pH | 26.27 °C | 6,890.6 µS/cm | 0.07 mg/L | 0.65 NTU | -179.9 mV | 3.99 ft | 200.00 ml/min |
| 9/20/2022 4:24 PM | 24:00 | 7.38 pH | 26.25 °C | 6,871.9 µS/cm | 0.07 mg/L | 0.52 NTU | -179.0 mV | 3.95 ft | 200.00 ml/min |
| 9/20/2022 4:28 PM | 28:00 | 7.38 pH | 26.08 °C | 6,841.4 µS/cm | 0.06 mg/L | 0.50 NTU | -176.8 mV | 3.93 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| PT-02 | Metals, Inorganics, TDS, Sulfide, Dis. Fe, Radium, As. Spec |

Low-Flow Test Report:

Test Date / Time: 9/20/2022 4:05:02 PM

Project: September 2022 McManus CCR Event

Operator Name: William Laaker

| | | |
|---|---|--|
| 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: 3.89 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 20.36 ft Estimated Total Volume Pumped: 4000 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: 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 % | |
| 9/20/2022 4:05 PM | 00:00 | 7.76 pH | 27.71 °C | 6,923.1 µS/cm | 0.10 mg/L | 3.77 NTU | -111.9 mV | 3.84 ft | 3.85 PSU | 200.00 ml/min |
| 9/20/2022 4:09 PM | 04:00 | 7.43 pH | 27.55 °C | 6,912.6 µS/cm | 0.08 mg/L | 2.96 NTU | -84.2 mV | 3.82 ft | 3.85 PSU | 200.00 ml/min |
| 9/20/2022 4:13 PM | 08:00 | 7.38 pH | 27.43 °C | 6,831.1 µS/cm | 0.07 mg/L | 2.21 NTU | -77.1 mV | 3.80 ft | 3.80 PSU | 200.00 ml/min |
| 9/20/2022 4:17 PM | 12:00 | 7.34 pH | 27.61 °C | 6,759.0 µS/cm | 0.07 mg/L | 1.81 NTU | -73.6 mV | 3.78 ft | 3.75 PSU | 200.00 ml/min |
| 9/20/2022 4:21 PM | 16:00 | 7.32 pH | 27.40 °C | 6,722.6 µS/cm | 0.06 mg/L | 1.74 NTU | -70.1 mV | 3.74 ft | 3.73 PSU | 200.00 ml/min |
| 9/20/2022 4:25 PM | 20:00 | 7.30 pH | 27.57 °C | 6,659.5 µS/cm | 0.06 mg/L | 1.37 NTU | -68.5 mV | 3.71 ft | 3.69 PSU | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| PT-03 | Metals, Inorganics, TDS, Sulfide, Dis. Fe, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 10:02:08 AM

Project: September 2022 McManus CCR Event

Operator Name: William Laaker

| | | |
|--|---|--|
| 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: 7.78 ft | Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 12441.833 ml Flow Cell Volume: 90 ml Final Flow Rate: 190 ml/min Final Draw Down: 1.9 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 % | |
| 9/21/2022 10:02 AM | 00:00 | 6.39 pH | 25.71 °C | 2,149.2 µS/cm | 0.12 mg/L | 1.51 NTU | 39.0 mV | 8.98 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:06 AM | 04:00 | 6.37 pH | 25.55 °C | 2,139.7 µS/cm | 0.07 mg/L | 1.59 NTU | 53.1 mV | 9.20 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:10 AM | 08:00 | 6.36 pH | 25.55 °C | 2,140.6 µS/cm | 0.04 mg/L | 3.12 NTU | 54.6 mV | 9.36 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:11 AM | 09:29 | 6.35 pH | 25.55 °C | 2,134.6 µS/cm | 0.03 mg/L | | 53.2 mV | 9.36 ft | 1.10 PSU | 190.00 ml/min |
| 9/21/2022 10:15 AM | 13:29 | 6.35 pH | 25.51 °C | 2,136.6 µS/cm | 0.01 mg/L | 7.23 NTU | 54.4 mV | 9.48 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:19 AM | 17:29 | 6.34 pH | 25.43 °C | 2,140.4 µS/cm | 0.00 mg/L | 8.96 NTU | 55.9 mV | 9.54 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:23 AM | 21:29 | 6.34 pH | 25.50 °C | 2,147.8 µS/cm | 0.00 mg/L | 9.48 NTU | 56.3 mV | 9.60 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:27 AM | 25:29 | 6.34 pH | 25.51 °C | 2,148.5 µS/cm | 0.00 mg/L | 9.41 NTU | 56.5 mV | 9.60 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:31 AM | 29:29 | 6.33 pH | 25.52 °C | 2,149.8 µS/cm | 0.00 mg/L | 8.59 NTU | 58.1 mV | 9.60 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:35 AM | 33:29 | 6.33 pH | 25.51 °C | 2,146.6 µS/cm | 0.00 mg/L | 7.56 NTU | 58.6 mV | 9.64 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:39 AM | 37:29 | 6.33 pH | 25.51 °C | 2,152.0 µS/cm | 0.00 mg/L | 7.00 NTU | 59.0 mV | 9.64 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:43 AM | 41:29 | 6.32 pH | 25.51 °C | 2,154.4 µS/cm | 0.00 mg/L | 6.43 NTU | 59.8 mV | 9.65 ft | 1.12 PSU | 190.00 ml/min |
| 9/21/2022 10:47 AM | 45:29 | 6.32 pH | 25.55 °C | 2,151.3 µS/cm | 0.00 mg/L | 5.69 NTU | 60.1 mV | 9.65 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:51 AM | 49:29 | 6.32 pH | 25.44 °C | 2,152.8 µS/cm | 0.00 mg/L | 5.30 NTU | 60.8 mV | 9.68 ft | 1.11 PSU | 190.00 ml/min |
| 9/21/2022 10:55 AM | 53:29 | 6.31 pH | 25.44 °C | 2,155.6 µS/cm | 0.00 mg/L | 5.02 NTU | 60.7 mV | 9.68 ft | 1.12 PSU | 190.00 ml/min |

| | | | | | | | | | | |
|-----------------------|----------|---------|----------|------------------|-----------|----------|---------|---------|----------|------------------|
| 9/21/2022 10:59 AM | 57:29 | 6.31 pH | 25.43 °C | 2,159.1 µS/cm | 0.00 mg/L | 4.90 NTU | 60.8 mV | 9.68 ft | 1.12 PSU | 190.00 ml/min |
| 9/21/2022 11:03 AM | 01:01:29 | 6.31 pH | 25.45 °C | 2,158.0 µS/cm | 0.00 mg/L | 4.63 NTU | 61.5 mV | 9.68 ft | 1.12 PSU | 190.00 ml/min |
| 9/21/2022 11:07 AM | 01:05:29 | 6.30 pH | 25.33 °C | 2,160.3 µS/cm | 0.00 mg/L | 4.40 NTU | 61.4 mV | 9.68 ft | 1.12 PSU | 190.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-12 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 10:08:25 AM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|--|---|--|
| 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: 7.08 ft | Pump Type: QED Dedicated Tubing Type: PVC Pump Intake From TOC: 18.75 ft Estimated Total Volume Pumped: 4480 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.33 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|--|---|--|

Test Notes:
Prepurge 1L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/21/2022 10:08 AM | 00:00 | 6.47 pH | 27.17 °C | 9,485.6 µS/cm | 0.34 mg/L | 13.30 NTU | -153.6 mV | 7.08 ft | 160.00 ml/min |
| 9/21/2022 10:12 AM | 04:00 | 6.37 pH | 26.70 °C | 12,996 µS/cm | 0.23 mg/L | 6.86 NTU | -145.8 mV | 7.21 ft | 160.00 ml/min |
| 9/21/2022 10:16 AM | 08:00 | 6.30 pH | 26.57 °C | 16,231 µS/cm | 0.18 mg/L | 3.42 NTU | -141.6 mV | 7.27 ft | 160.00 ml/min |
| 9/21/2022 10:20 AM | 12:00 | 6.26 pH | 26.59 °C | 18,553 µS/cm | 0.15 mg/L | 1.10 NTU | -137.5 mV | 7.32 ft | 160.00 ml/min |
| 9/21/2022 10:24 AM | 16:00 | 6.28 pH | 26.66 °C | 18,127 µS/cm | 0.11 mg/L | 2.27 NTU | -137.8 mV | 7.35 ft | 160.00 ml/min |
| 9/21/2022 10:28 AM | 20:00 | 6.27 pH | 26.63 °C | 18,451 µS/cm | 0.09 mg/L | 1.64 NTU | -137.1 mV | 7.37 ft | 160.00 ml/min |
| 9/21/2022 10:32 AM | 24:00 | 6.27 pH | 26.73 °C | 18,682 µS/cm | 0.08 mg/L | 1.16 NTU | -136.5 mV | 7.40 ft | 160.00 ml/min |
| 9/21/2022 10:36 AM | 28:00 | 6.27 pH | 26.78 °C | 18,853 µS/cm | 0.07 mg/L | 1.03 NTU | -136.2 mV | 7.41 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-07 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 10:42:32 AM

Project: September 2022 McManus CCR Event

Operator Name: Kevin Stephenson

| | | |
|---|---|--|
| 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: 4.2 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 9600 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 1.32 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|---|---|--|

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 % | +/- 10 % | +/- 5 | +/- 1000 % | +/- 0.3 | +/- 1000 % | |
| 9/21/2022 10:42 AM | 00:00 | 4.91 pH | 27.90 °C | 172.42 µS/cm | 0.22 mg/L | 3.46 NTU | 135.5 mV | 5.31 ft | 0.08 PSU | 240.00 ml/min |
| 9/21/2022 10:46 AM | 04:00 | 4.92 pH | 27.75 °C | 174.62 µS/cm | 0.17 mg/L | 3.33 NTU | 126.0 mV | 5.44 ft | 0.08 PSU | 240.00 ml/min |
| 9/21/2022 10:50 AM | 08:00 | 4.93 pH | 27.79 °C | 181.79 µS/cm | 0.16 mg/L | 2.89 NTU | 122.1 mV | 5.47 ft | 0.09 PSU | 240.00 ml/min |
| 9/21/2022 10:54 AM | 12:00 | 4.94 pH | 27.75 °C | 185.81 µS/cm | 0.14 mg/L | 1.49 NTU | 120.4 mV | 5.48 ft | 0.09 PSU | 240.00 ml/min |
| 9/21/2022 10:58 AM | 16:00 | 4.95 pH | 27.79 °C | 191.69 µS/cm | 0.13 mg/L | 1.01 NTU | 119.9 mV | 5.50 ft | 0.09 PSU | 240.00 ml/min |
| 9/21/2022 11:02 AM | 20:00 | 4.96 pH | 27.87 °C | 198.67 µS/cm | 0.12 mg/L | 1.12 NTU | 119.6 mV | 5.53 ft | 0.09 PSU | 240.00 ml/min |
| 9/21/2022 11:06 AM | 24:00 | 4.96 pH | 27.96 °C | 204.15 µS/cm | 0.12 mg/L | 0.55 NTU | 118.8 mV | 5.53 ft | 0.10 PSU | 240.00 ml/min |
| 9/21/2022 11:10 AM | 28:00 | 4.97 pH | 27.98 °C | 204.01 µS/cm | 0.13 mg/L | 0.77 NTU | 119.9 mV | 5.52 ft | 0.10 PSU | 240.00 ml/min |
| 9/21/2022 11:14 AM | 32:00 | 4.97 pH | 28.00 °C | 209.68 µS/cm | 0.14 mg/L | 0.70 NTU | 120.0 mV | 5.52 ft | 0.10 PSU | 240.00 ml/min |
| 9/21/2022 11:18 AM | 36:00 | 4.97 pH | 27.89 °C | 215.10 µS/cm | 0.15 mg/L | 0.78 NTU | 121.3 mV | 5.52 ft | 0.10 PSU | 240.00 ml/min |
| 9/21/2022 11:22 AM | 40:00 | 4.97 pH | 28.00 °C | 216.67 µS/cm | 0.15 mg/L | 0.72 NTU | 122.2 mV | 5.52 ft | 0.10 PSU | 240.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-11 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 1:22:15 PM

Project: September 2022 McManus CCR Event

Operator Name: William Laaker

| | | |
|--|---|--|
| 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: 9.43 ft | Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 23.11 ft Estimated Total Volume Pumped: 5400 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 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 % | |
| 9/21/2022 1:22 PM | 00:00 | 6.76 pH | 27.30 °C | 8,398.8 µS/cm | 0.61 mg/L | 0.41 NTU | -83.9 mV | 9.48 ft | 4.74 PSU | 150.00 ml/min |
| 9/21/2022 1:26 PM | 04:00 | 6.78 pH | 26.97 °C | 7,480.1 µS/cm | 0.28 mg/L | 0.33 NTU | -70.8 mV | 9.48 ft | 4.18 PSU | 150.00 ml/min |
| 9/21/2022 1:30 PM | 08:00 | 6.74 pH | 26.88 °C | 7,756.1 µS/cm | 0.16 mg/L | 0.45 NTU | -65.1 mV | 9.48 ft | 4.35 PSU | 150.00 ml/min |
| 9/21/2022 1:34 PM | 12:00 | 6.69 pH | 26.84 °C | 8,497.8 µS/cm | 0.13 mg/L | 0.30 NTU | -62.8 mV | 9.48 ft | 4.80 PSU | 150.00 ml/min |
| 9/21/2022 1:38 PM | 16:00 | 6.65 pH | 26.79 °C | 9,175.2 µS/cm | 0.12 mg/L | 0.28 NTU | -58.3 mV | 9.48 ft | 5.21 PSU | 150.00 ml/min |
| 9/21/2022 1:42 PM | 20:00 | 6.64 pH | 26.70 °C | 9,604.6 µS/cm | 0.13 mg/L | 0.25 NTU | -57.3 mV | 9.48 ft | 5.47 PSU | 150.00 ml/min |
| 9/21/2022 1:46 PM | 24:00 | 6.62 pH | 26.72 °C | 9,956.6 µS/cm | 0.12 mg/L | 0.23 NTU | -55.0 mV | 9.48 ft | 5.69 PSU | 150.00 ml/min |
| 9/21/2022 1:50 PM | 28:00 | 6.61 pH | 26.49 °C | 10,062 µS/cm | 0.12 mg/L | 0.21 NTU | -54.4 mV | 9.46 ft | 5.75 PSU | 150.00 ml/min |
| 9/21/2022 1:54 PM | 32:00 | 6.61 pH | 26.15 °C | 10,277 µS/cm | 0.11 mg/L | 0.19 NTU | -53.8 mV | 9.44 ft | 5.89 PSU | 150.00 ml/min |
| 9/21/2022 1:58 PM | 36:00 | 6.61 pH | 26.03 °C | 10,327 µS/cm | 0.13 mg/L | 0.19 NTU | -52.0 mV | 9.43 ft | 5.92 PSU | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-14 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 1:23:44 PM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|--|---|--|
| Location Name: PT-04D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.85 ft Total Depth: 40.85 ft Initial Depth to Water: 5.57 ft | Pump Type: GeoTech Peristaltic Tubing Type: PVC Pump Intake From TOC: 35.85 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|--|---|--|

Test Notes:

Prepurge 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/21/2022 1:23 PM | 00:00 | 7.16 pH | 26.98 °C | 18,576 µS/cm | 0.63 mg/L | 1.08 NTU | -188.8 mV | 5.57 ft | 200.00 ml/min |
| 9/21/2022 1:27 PM | 04:00 | 7.20 pH | 25.62 °C | 18,598 µS/cm | 0.35 mg/L | 0.50 NTU | -184.8 mV | 5.60 ft | 200.00 ml/min |
| 9/21/2022 1:31 PM | 08:00 | 7.20 pH | 25.42 °C | 18,686 µS/cm | 0.20 mg/L | 0.43 NTU | -185.3 mV | 5.61 ft | 200.00 ml/min |
| 9/21/2022 1:35 PM | 12:00 | 7.20 pH | 25.24 °C | 18,807 µS/cm | 0.15 mg/L | 0.52 NTU | -186.2 mV | 5.61 ft | 200.00 ml/min |
| 9/21/2022 1:39 PM | 16:00 | 7.20 pH | 25.11 °C | 18,970 µS/cm | 0.13 mg/L | 0.49 NTU | -186.7 mV | 5.60 ft | 200.00 ml/min |
| 9/21/2022 1:43 PM | 20:00 | 7.20 pH | 25.13 °C | 19,056 µS/cm | 0.12 mg/L | 0.46 NTU | -185.5 mV | 5.59 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| PT-04D | Metals, Inorganics, TDS, Sulfide, Dis. Fe, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 1:26:12 PM

Project: September 2022 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: 2.93 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 22.35 ft Estimated Total Volume Pumped: 6720 ml Flow Cell Volume: 90 ml Final Flow Rate: 280 ml/min Final Draw Down: 0.12 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|--|--|

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 % | |
| 9/21/2022 1:26 PM | 00:00 | 4.93 pH | 25.10 °C | 195.77 µS/cm | 0.24 mg/L | 0.47 NTU | 88.1 mV | 3.05 ft | 0.09 PSU | 280.00 ml/min |
| 9/21/2022 1:30 PM | 04:00 | 5.18 pH | 24.23 °C | 179.79 µS/cm | 0.17 mg/L | 0.07 NTU | 76.9 mV | 3.05 ft | 0.09 PSU | 280.00 ml/min |
| 9/21/2022 1:34 PM | 08:00 | 5.18 pH | 24.14 °C | 170.81 µS/cm | 0.15 mg/L | 0.90 NTU | 73.4 mV | 3.05 ft | 0.08 PSU | 280.00 ml/min |
| 9/21/2022 1:38 PM | 12:00 | 5.16 pH | 24.09 °C | 166.84 µS/cm | 0.14 mg/L | 3.91 NTU | 72.7 mV | 3.05 ft | 0.08 PSU | 280.00 ml/min |
| 9/21/2022 1:42 PM | 16:00 | 5.14 pH | 24.09 °C | 166.00 µS/cm | 0.13 mg/L | 1.22 NTU | 73.3 mV | 3.05 ft | 0.08 PSU | 280.00 ml/min |
| 9/21/2022 1:46 PM | 20:00 | 5.14 pH | 24.01 °C | 168.92 µS/cm | 0.12 mg/L | 0.74 NTU | 73.2 mV | 3.05 ft | 0.08 PSU | 280.00 ml/min |
| 9/21/2022 1:50 PM | 24:00 | 5.14 pH | 23.78 °C | 169.51 µS/cm | 0.11 mg/L | 0.93 NTU | 73.3 mV | 3.05 ft | 0.08 PSU | 280.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-02 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 2:46:58 PM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|--|---|--|
| 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: 7.04 ft | Pump Type: QED Dedicated Tubing Type: PVC Pump Intake From TOC: 23.05 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: -0.4 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|--|---|--|

Test Notes:

Prepurge 1L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/21/2022 2:46 PM | 00:00 | 6.79 pH | 29.93 °C | 5,327.0 µS/cm | 1.89 mg/L | 1.11 NTU | -156.0 mV | 6.74 ft | 160.00 ml/min |
| 9/21/2022 2:50 PM | 04:00 | 6.92 pH | 28.27 °C | 4,340.8 µS/cm | 0.64 mg/L | 0.52 NTU | -178.8 mV | 6.72 ft | 160.00 ml/min |
| 9/21/2022 2:54 PM | 08:00 | 6.94 pH | 27.76 °C | 4,216.4 µS/cm | 0.32 mg/L | 0.68 NTU | -181.8 mV | 6.71 ft | 160.00 ml/min |
| 9/21/2022 2:58 PM | 12:00 | 6.94 pH | 27.87 °C | 4,149.6 µS/cm | 0.18 mg/L | 0.75 NTU | -181.3 mV | 6.69 ft | 160.00 ml/min |
| 9/21/2022 3:02 PM | 16:00 | 6.94 pH | 27.74 °C | 4,101.1 µS/cm | 0.13 mg/L | 0.55 NTU | -180.7 mV | 6.66 ft | 160.00 ml/min |
| 9/21/2022 3:06 PM | 20:00 | 6.93 pH | 27.78 °C | 4,031.5 µS/cm | 0.10 mg/L | 0.52 NTU | -181.7 mV | 6.64 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-05 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 2:57:14 PM

Project: September 2022 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: 7.98 ft | Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 23.57 ft Estimated Total Volume Pumped: 5200 ml Flow Cell Volume: 90 ml Final Flow Rate: 260 ml/min Final Draw Down: 0.2 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|---|--|

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 % | |
| 9/21/2022 2:57 PM | 00:00 | 5.43 pH | 28.58 °C | 300.03 µS/cm | 3.58 mg/L | 2.74 NTU | 118.6 mV | 8.19 ft | 0.14 PSU | 260.00 ml/min |
| 9/21/2022 3:01 PM | 04:00 | 5.37 pH | 24.66 °C | 316.77 µS/cm | 0.19 mg/L | 1.02 NTU | 117.0 mV | 8.19 ft | 0.15 PSU | 260.00 ml/min |
| 9/21/2022 3:05 PM | 08:00 | 5.35 pH | 24.33 °C | 318.58 µS/cm | 0.16 mg/L | 1.25 NTU | 110.7 mV | 8.18 ft | 0.15 PSU | 260.00 ml/min |
| 9/21/2022 3:09 PM | 12:00 | 5.35 pH | 24.36 °C | 316.09 µS/cm | 0.14 mg/L | 1.13 NTU | 106.8 mV | 8.18 ft | 0.15 PSU | 260.00 ml/min |
| 9/21/2022 3:13 PM | 16:00 | 5.35 pH | 24.23 °C | 316.12 µS/cm | 0.13 mg/L | 0.69 NTU | 104.0 mV | 8.18 ft | 0.15 PSU | 260.00 ml/min |
| 9/21/2022 3:17 PM | 20:00 | 5.34 pH | 24.14 °C | 316.49 µS/cm | 0.12 mg/L | 0.92 NTU | 101.7 mV | 8.18 ft | 0.15 PSU | 260.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-04 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 4:01:31 PM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|---|---|--|
| 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: 7.6 ft | Pump Type: QED Dedicated Tubing Type: PVC Pump Intake From TOC: 21.6 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 893479 |
|---|---|--|

Test Notes:

Prepurge 2L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/21/2022 4:01 PM | 00:00 | 5.55 pH | 28.30 °C | 73.27 µS/cm | 1.68 mg/L | 0.54 NTU | 39.5 mV | 7.60 ft | 200.00 ml/min |
| 9/21/2022 4:05 PM | 04:00 | 5.33 pH | 26.89 °C | 54.08 µS/cm | 0.47 mg/L | 1.44 NTU | 68.3 mV | 7.60 ft | 200.00 ml/min |
| 9/21/2022 4:09 PM | 08:00 | 5.28 pH | 26.43 °C | 51.66 µS/cm | 0.27 mg/L | 1.16 NTU | 76.8 mV | 7.60 ft | 200.00 ml/min |
| 9/21/2022 4:13 PM | 12:00 | 5.27 pH | 26.34 °C | 50.99 µS/cm | 0.20 mg/L | 1.04 NTU | 81.1 mV | 7.60 ft | 200.00 ml/min |
| 9/21/2022 4:17 PM | 16:00 | 5.25 pH | 26.17 °C | 50.59 µS/cm | 0.17 mg/L | 1.14 NTU | 84.2 mV | 7.59 ft | 200.00 ml/min |
| 9/21/2022 4:21 PM | 20:00 | 5.23 pH | 26.09 °C | 50.53 µS/cm | 0.15 mg/L | 0.82 NTU | 86.5 mV | 7.59 ft | 200.00 ml/min |
| 9/21/2022 4:25 PM | 24:00 | 5.23 pH | 25.91 °C | 50.32 µS/cm | 0.14 mg/L | 0.71 NTU | 87.8 mV | 7.58 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-15 | Metals, Inorganics, TDS, Alkalinity, Radium |
| DUP-2 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 4:38:28 PM

Project: September 2022 McManus CCR Event

Operator Name: Kevin Stephenson

| | | |
|--|--|--|
| 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: 7.56 ft | Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 23.39 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.01 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|--|--|

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 % | +/- 10 % | +/- 5 | +/- 1000 % | +/- 0.3 | +/- 1000 % | |
| 9/21/2022 4:38 PM | 00:00 | 5.04 pH | 23.64 °C | 134.68 µS/cm | 0.59 mg/L | 3.54 NTU | 106.0 mV | 7.57 ft | 0.06 PSU | 240.00 ml/min |
| 9/21/2022 4:42 PM | 04:00 | 4.96 pH | 23.10 °C | 133.55 µS/cm | 0.42 mg/L | 3.68 NTU | 102.5 mV | 7.57 ft | 0.06 PSU | 240.00 ml/min |
| 9/21/2022 4:46 PM | 08:00 | 4.94 pH | 22.95 °C | 133.59 µS/cm | 0.32 mg/L | 2.94 NTU | 100.5 mV | 7.57 ft | 0.06 PSU | 240.00 ml/min |
| 9/21/2022 4:50 PM | 12:00 | 4.93 pH | 22.93 °C | 133.17 µS/cm | 0.24 mg/L | 2.97 NTU | 99.4 mV | 7.57 ft | 0.06 PSU | 240.00 ml/min |
| 9/21/2022 4:54 PM | 16:00 | 4.92 pH | 22.91 °C | 132.88 µS/cm | 0.22 mg/L | 2.56 NTU | 98.8 mV | 7.57 ft | 0.06 PSU | 240.00 ml/min |
| 9/21/2022 4:58 PM | 20:00 | 4.91 pH | 22.84 °C | 134.01 µS/cm | 0.20 mg/L | 2.57 NTU | 98.7 mV | 7.57 ft | 0.06 PSU | 240.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-16 | Metals, Inorganics, TDS, Alkalinity, Radium |

Low-Flow Test Report:

Test Date / Time: 9/21/2022 5:39:50 PM

Project: September 2022 McManus CCR Event

Operator Name: Meredith Duncan

| | | |
|--|--|--|
| 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: 7.93 ft | Pump Type: QED Dedicated Tubing Type: PVC Pump Intake From TOC: 22.44 ft Estimated Total Volume Pumped: 9600 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: 893479 |
|--|--|--|

Test Notes:

Prepurge 1L

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 1000 | +/- 5 % | +/- 10 % | +/- 5 | +/- 1000 | +/- 0.3 | |
| 9/21/2022 5:39 PM | 00:00 | 6.29 pH | 32.09 °C | 11,679 µS/cm | 1.55 mg/L | 1.57 NTU | -94.4 mV | 7.93 ft | 200.00 ml/min |
| 9/21/2022 5:43 PM | 04:00 | 6.21 pH | 27.12 °C | 10,817 µS/cm | 0.26 mg/L | 1.53 NTU | -113.5 mV | 7.91 ft | 200.00 ml/min |
| 9/21/2022 5:47 PM | 08:00 | 6.23 pH | 26.38 °C | 10,752 µS/cm | 0.13 mg/L | 1.85 NTU | -115.6 mV | 7.90 ft | 200.00 ml/min |
| 9/21/2022 5:51 PM | 12:00 | 6.24 pH | 26.09 °C | 10,716 µS/cm | 0.10 mg/L | 2.62 NTU | -115.1 mV | 7.90 ft | 200.00 ml/min |
| 9/21/2022 5:55 PM | 16:00 | 6.29 pH | 25.87 °C | 10,748 µS/cm | 0.08 mg/L | 8.71 NTU | -114.2 mV | 7.87 ft | 200.00 ml/min |
| 9/21/2022 5:59 PM | 20:00 | 6.38 pH | 25.85 °C | 10,793 µS/cm | 0.07 mg/L | 4.23 NTU | -116.1 mV | 7.85 ft | 200.00 ml/min |
| 9/21/2022 6:03 PM | 24:00 | 6.47 pH | 25.58 °C | 10,804 µS/cm | 0.07 mg/L | 1.59 NTU | -116.3 mV | 7.84 ft | 200.00 ml/min |
| 9/21/2022 6:07 PM | 28:00 | 6.52 pH | 25.54 °C | 10,841 µS/cm | 0.06 mg/L | 1.66 NTU | -114.8 mV | 7.82 ft | 200.00 ml/min |
| 9/21/2022 6:11 PM | 32:00 | 6.59 pH | 25.38 °C | 10,842 µS/cm | 0.06 mg/L | 1.29 NTU | -113.7 mV | 7.81 ft | 200.00 ml/min |
| 9/21/2022 6:15 PM | 36:00 | 6.64 pH | 25.37 °C | 10,831 µS/cm | 0.05 mg/L | 1.15 NTU | -113.9 mV | 7.78 ft | 200.00 ml/min |
| 9/21/2022 6:19 PM | 40:00 | 6.67 pH | 25.29 °C | 10,836 µS/cm | 0.05 mg/L | 1.17 NTU | -112.3 mV | 7.76 ft | 200.00 ml/min |
| 9/21/2022 6:23 PM | 44:00 | 6.70 pH | 25.21 °C | 10,827 µS/cm | 0.05 mg/L | 0.92 NTU | -112.4 mV | 7.73 ft | 200.00 ml/min |
| 9/21/2022 6:27 PM | 48:00 | 6.72 pH | 25.15 °C | 10,837 µS/cm | 0.05 mg/L | 0.88 NTU | -110.5 mV | 7.72 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-17 | Metals, Inorganics, TDS, Alkalinity, Radium |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/21/2022 5:40:20 PM

Project: September 2022 McManus CCR Event

Operator Name: Kevin Stephenson

| | | |
|--|---|--|
| 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: 2.78 ft | Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 22.32 ft Estimated Total Volume Pumped: 6240 ml Flow Cell Volume: 90 ml Final Flow Rate: 260 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 789317 |
|--|---|--|

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 % | |
| 9/21/2022 5:40 PM | 00:00 | 4.97 pH | 25.91 °C | 176.71 µS/cm | 1.01 mg/L | 11.07 NTU | 119.9 mV | 2.78 ft | 0.08 PSU | 260.00 ml/min |
| 9/21/2022 5:44 PM | 04:00 | 4.92 pH | 25.09 °C | 178.86 µS/cm | 0.57 mg/L | 10.14 NTU | 114.3 mV | 2.78 ft | 0.09 PSU | 260.00 ml/min |
| 9/21/2022 5:48 PM | 08:00 | 4.91 pH | 25.01 °C | 178.61 µS/cm | 0.53 mg/L | 8.24 NTU | 111.3 mV | 2.78 ft | 0.08 PSU | 260.00 ml/min |
| 9/21/2022 5:52 PM | 12:00 | 4.91 pH | 25.04 °C | 177.14 µS/cm | 0.44 mg/L | 7.07 NTU | 109.6 mV | 2.78 ft | 0.08 PSU | 260.00 ml/min |
| 9/21/2022 5:56 PM | 16:00 | 4.93 pH | 24.95 °C | 176.81 µS/cm | 0.29 mg/L | 4.91 NTU | 107.8 mV | 2.78 ft | 0.08 PSU | 260.00 ml/min |
| 9/21/2022 6:00 PM | 20:00 | 4.94 pH | 24.95 °C | 173.98 µS/cm | 0.21 mg/L | 4.41 NTU | 106.1 mV | 2.78 ft | 0.08 PSU | 260.00 ml/min |
| 9/21/2022 6:04 PM | 24:00 | 4.95 pH | 24.89 °C | 173.61 µS/cm | 0.18 mg/L | 3.30 NTU | 104.9 mV | 2.78 ft | 0.08 PSU | 260.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| MCM-01 | Metals, Inorganics, TDS, Alkalinity, Radium |

APPENDIX C

SURFACE WATER LABORATORY ANALYTICAL RESULTS AND FIELD SAMPLING REPORTS

July 22, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Minneapolis

This report was revised on July 21, 2022, to update reporting units to mg/L.

Revision 1: This revision was issued on 7/21/22 to report the 6020 reanalyses results of project samples.

Revision 2: This revision was issued on 7/22/22 to report all metals data in mg/L.

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joe Booth, Resolute Environmental & Water Resources
Trent Godwin, Resolute Environmental & Water Resources
Kristen Jurinko
Laura Midkiff, Georgia Power

Ms. Lauren Petty, Southern Company
Kevin Stephenson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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July 22, 2022
Page 2

cc: Stephen Wilson, Resolute Environmental & Water
Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92608869001 | T1-4HT | Water | 06/07/22 18:06 | 06/09/22 11:00 |
| 92608869002 | T1-4HTS | Water | 06/07/22 18:10 | 06/09/22 11:00 |
| 92608869003 | T2-1HT | Water | 06/07/22 16:54 | 06/09/22 11:00 |
| 92608869004 | T2-2HT | Water | 06/07/22 17:05 | 06/09/22 11:00 |
| 92608869005 | T2-2HTS | Water | 06/07/22 17:00 | 06/09/22 11:00 |
| 92608869006 | T2-3HT | Water | 06/07/22 17:28 | 06/09/22 11:00 |
| 92608869007 | T2-3HTS | Water | 06/07/22 17:24 | 06/09/22 11:00 |
| 92608869008 | T2-4HT | Water | 06/07/22 17:45 | 06/09/22 11:00 |
| 92608869009 | T2-4HTS | Water | 06/07/22 17:40 | 06/09/22 11:00 |
| 92608869010 | T3-4HT | Water | 06/07/22 17:57 | 06/09/22 11:00 |
| 92608869011 | T3-4HTS | Water | 06/07/22 17:53 | 06/09/22 11:00 |
| 92608869012 | T4-1HB | Water | 06/07/22 14:54 | 06/09/22 11:00 |
| 92608869013 | T4-1HS | Water | 06/07/22 14:45 | 06/09/22 11:00 |
| 92608869014 | T4-2HB | Water | 06/07/22 15:16 | 06/09/22 11:00 |
| 92608869015 | T4-2HS | Water | 06/07/22 15:09 | 06/09/22 11:00 |
| 92608869016 | T4-3HB | Water | 06/07/22 15:38 | 06/09/22 11:00 |
| 92608869017 | T4-3HS | Water | 06/07/22 15:30 | 06/09/22 11:00 |
| 92608869018 | T4-4HB | Water | 06/07/22 15:57 | 06/09/22 11:00 |
| 92608869019 | T4-4HS | Water | 06/07/22 15:52 | 06/09/22 11:00 |
| 92608869020 | BG-1LT | Water | 06/08/22 10:20 | 06/09/22 11:00 |
| 92608869021 | BG-2HT | Water | 06/07/22 16:20 | 06/09/22 11:00 |
| 92608869022 | DUP-1 | Water | 06/07/22 00:00 | 06/09/22 11:00 |
| 92608869023 | DUP-2 | Water | 06/07/22 00:00 | 06/09/22 11:00 |
| 92608869024 | DUP-3 | Water | 06/07/22 00:00 | 06/09/22 11:00 |
| 92608869025 | FB-1 | Water | 06/08/22 08:55 | 06/09/22 11:00 |
| 92608869026 | EB-1 | Water | 06/08/22 09:00 | 06/09/22 11:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| 92608869001 | T1-4HT | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | ZMC | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869002 | T1-4HTS | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | ZMC | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869003 | T2-1HT | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | ZMC | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869004 | T2-2HT | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | ZMC | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869005 | T2-2HTS | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869006 | T2-3HT | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869007 | T2-3HTS | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869008 | T2-4HT | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| 92608869009 | T2-4HTS | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| 92608869010 | T3-4HT | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869011 | T3-4HTS | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| 92608869012 | T4-1HB | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| 92608869013 | T4-1HS | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| 92608869014 | T4-2HB | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| 92608869015 | T4-2HS | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |

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SAMPLE ANALYTE COUNT

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| 92608869016 | T4-3HB | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869017 | T4-3HS | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869018 | T4-4HB | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869019 | T4-4HS | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869020 | BG-1LT | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869021 | BG-2HT | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869022 | DUP-1 | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869023 | DUP-2 | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |

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SAMPLE ANALYTE COUNT

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|----------|-------------------|------------|
| 92608869024 | DUP-3 | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| 92608869025 | FB-1 | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |
| | | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | DBB1 | 3 | PASI-A |
| 92608869026 | EB-1 | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869001 | T1-4HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:00 | |
| | | R | | | | |
| | pH | 7.43 | Std. Units | | 06/09/22 16:00 | |
| EPA 6010C | Calcium | 242 | mg/L | 10.0 | 06/24/22 13:40 | |
| EPA 6010C | Magnesium | 755 | mg/L | 10.0 | 06/24/22 13:40 | |
| EPA 6010C | Potassium | 274 | mg/L | 50.0 | 06/24/22 13:40 | |
| EPA 6010C | Sodium | 5740 | mg/L | 40.0 | 06/24/22 14:30 | P6 |
| EPA 6020B | Arsenic | 0.0049J | mg/L | 0.050 | 07/13/22 17:48 | |
| EPA 6020B | Boron | 3.4 | mg/L | 2.5 | 07/13/22 17:48 | M1 |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 17:48 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 98.8 | mg/L | 5.0 | 06/15/22 16:33 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 98.8 | mg/L | 5.0 | 06/15/22 16:33 | |
| SM 2540C-2015 | Total Dissolved Solids | 22700 | mg/L | 2500 | 06/10/22 15:36 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3260 | mg/L | 100 | 06/13/22 22:57 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 380 | mg/L | 100 | 06/13/22 22:57 | |
| 92608869002 | T1-4HTS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:00 | |
| | | R | | | | |
| | pH | 7.50 | Std. Units | | 06/09/22 16:00 | |
| EPA 6010C | Calcium | 248 | mg/L | 10.0 | 06/24/22 13:52 | |
| EPA 6010C | Magnesium | 775 | mg/L | 10.0 | 06/24/22 13:52 | |
| EPA 6010C | Potassium | 282 | mg/L | 50.0 | 06/24/22 13:52 | |
| EPA 6010C | Sodium | 5990 | mg/L | 40.0 | 06/24/22 14:38 | |
| EPA 6020B | Boron | 3.6 | mg/L | 2.5 | 07/13/22 18:19 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 18:19 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 99.8 | mg/L | 5.0 | 06/15/22 16:43 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 99.8 | mg/L | 5.0 | 06/15/22 16:43 | |
| SM 2540C-2015 | Total Dissolved Solids | 24500 | mg/L | 2500 | 06/10/22 15:36 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4270 | mg/L | 100 | 06/13/22 23:12 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/12/22 23:14 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1230 | mg/L | 20.0 | 06/12/22 23:14 | |
| 92608869003 | T2-1HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:00 | |
| | | R | | | | |
| | pH | 7.55 | Std. Units | | 06/09/22 16:00 | |
| EPA 6010C | Calcium | 214 | mg/L | 10.0 | 06/24/22 13:53 | |
| EPA 6010C | Magnesium | 663 | mg/L | 10.0 | 06/24/22 13:53 | |
| EPA 6010C | Potassium | 242 | mg/L | 50.0 | 06/24/22 13:53 | |
| EPA 6010C | Sodium | 5180 | mg/L | 40.0 | 06/24/22 14:40 | |
| EPA 6020B | Boron | 3.4 | mg/L | 2.5 | 07/13/22 18:23 | |
| EPA 6020B | Lithium | 0.098J | mg/L | 0.12 | 07/13/22 18:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 87.5 | mg/L | 5.0 | 06/15/22 16:53 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 87.5 | mg/L | 5.0 | 06/15/22 16:53 | |
| SM 2540C-2015 | Total Dissolved Solids | 21200 | mg/L | 2500 | 06/10/22 15:36 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3560 | mg/L | 100 | 06/13/22 23:28 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.0J | mg/L | 2.0 | 06/12/22 23:30 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1050 | mg/L | 20.0 | 06/12/22 23:30 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869004 | T2-2HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:00 | |
| | | R | | | | |
| | pH | 7.40 | Std. Units | | 06/09/22 16:00 | |
| EPA 6010C | Calcium | 244 | mg/L | 10.0 | 06/24/22 13:55 | |
| EPA 6010C | Magnesium | 762 | mg/L | 10.0 | 06/24/22 13:55 | |
| EPA 6010C | Potassium | 279 | mg/L | 50.0 | 06/24/22 13:55 | |
| EPA 6010C | Sodium | 5940 | mg/L | 40.0 | 06/24/22 14:42 | |
| EPA 6020B | Boron | 3.8 | mg/L | 2.5 | 07/13/22 18:27 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 18:27 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 98.5 | mg/L | 5.0 | 06/15/22 17:02 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 98.5 | mg/L | 5.0 | 06/15/22 17:02 | |
| SM 2540C-2015 | Total Dissolved Solids | 20600 | mg/L | 2500 | 06/10/22 15:36 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4550 | mg/L | 100 | 06/14/22 00:36 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.0J | mg/L | 2.0 | 06/13/22 00:06 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1210 | mg/L | 20.0 | 06/13/22 00:06 | |
| 92608869005 | T2-2HTS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:00 | |
| | | R | | | | |
| | pH | 7.49 | Std. Units | | 06/09/22 16:00 | |
| EPA 6010C | Calcium | 206 | mg/L | 10.0 | 06/24/22 13:57 | |
| EPA 6010C | Magnesium | 634 | mg/L | 10.0 | 06/24/22 13:57 | |
| EPA 6010C | Potassium | 232 | mg/L | 50.0 | 06/24/22 13:57 | |
| EPA 6010C | Sodium | 4990 | mg/L | 40.0 | 06/24/22 14:43 | |
| EPA 6020B | Boron | 3.1 | mg/L | 2.5 | 07/13/22 18:32 | |
| EPA 6020B | Lithium | 0.098J | mg/L | 0.12 | 07/13/22 18:32 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 83.3 | mg/L | 5.0 | 06/15/22 17:22 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 83.3 | mg/L | 5.0 | 06/15/22 17:22 | |
| SM 2540C-2015 | Total Dissolved Solids | 18400 | mg/L | 2500 | 06/11/22 11:40 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3430 | mg/L | 100 | 06/14/22 00:52 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.0J | mg/L | 2.0 | 06/13/22 00:22 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1010 | mg/L | 20.0 | 06/13/22 00:22 | |
| 92608869006 | T2-3HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:01 | |
| | | R | | | | |
| | pH | 7.43 | Std. Units | | 06/09/22 16:01 | |
| EPA 6010C | Calcium | 253 | mg/L | 10.0 | 06/24/22 13:58 | |
| EPA 6010C | Magnesium | 795 | mg/L | 10.0 | 06/24/22 13:58 | |
| EPA 6010C | Potassium | 290 | mg/L | 50.0 | 06/24/22 13:58 | |
| EPA 6010C | Sodium | 6130 | mg/L | 40.0 | 06/24/22 14:45 | |
| EPA 6020B | Boron | 3.8 | mg/L | 2.5 | 07/13/22 18:36 | |
| EPA 6020B | Lithium | 0.12J | mg/L | 0.12 | 07/13/22 18:36 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 98.3 | mg/L | 5.0 | 06/15/22 17:31 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 98.3 | mg/L | 5.0 | 06/15/22 17:31 | |
| SM 2540C-2015 | Total Dissolved Solids | 24100 | mg/L | 2500 | 06/11/22 11:40 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4090 | mg/L | 100 | 06/14/22 01:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 00:38 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1250 | mg/L | 20.0 | 06/13/22 00:38 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869007 | T2-3HTS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:01 | |
| | | R | | | | |
| | pH | 7.58 | Std. Units | | 06/09/22 16:01 | |
| EPA 6010C | Calcium | 230 | mg/L | 10.0 | 06/24/22 14:00 | |
| EPA 6010C | Magnesium | 717 | mg/L | 10.0 | 06/24/22 14:00 | |
| EPA 6010C | Potassium | 263 | mg/L | 50.0 | 06/24/22 14:00 | |
| EPA 6010C | Sodium | 5530 | mg/L | 40.0 | 06/24/22 14:50 | |
| EPA 6020B | Boron | 3.5 | mg/L | 2.5 | 07/13/22 18:40 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 18:40 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 95.7 | mg/L | 5.0 | 06/15/22 17:40 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 95.7 | mg/L | 5.0 | 06/15/22 17:40 | |
| SM 2540C-2015 | Total Dissolved Solids | 23400 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3740 | mg/L | 100 | 06/14/22 01:23 | M1, R1 |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.0J | mg/L | 2.0 | 06/13/22 00:54 | D3, M1 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1210 | mg/L | 20.0 | 06/13/22 00:54 | M1 |
| 92608869008 | T2-4HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:01 | |
| | | R | | | | |
| | pH | 7.44 | Std. Units | | 06/09/22 16:01 | |
| EPA 6010C | Calcium | 229 | mg/L | 10.0 | 06/24/22 14:02 | |
| EPA 6010C | Magnesium | 718 | mg/L | 10.0 | 06/24/22 14:02 | |
| EPA 6010C | Potassium | 262 | mg/L | 50.0 | 06/24/22 14:02 | |
| EPA 6010C | Sodium | 5460 | mg/L | 40.0 | 06/24/22 14:52 | |
| EPA 6020B | Boron | 3.3 | mg/L | 2.5 | 07/13/22 18:43 | |
| EPA 6020B | Lithium | 0.10J | mg/L | 0.12 | 07/13/22 18:43 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 89.8 | mg/L | 5.0 | 06/15/22 17:49 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 89.8 | mg/L | 5.0 | 06/15/22 17:49 | |
| SM 2540C-2015 | Total Dissolved Solids | 21600 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3810 | mg/L | 100 | 06/14/22 02:11 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.0J | mg/L | 2.0 | 06/13/22 02:13 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1040 | mg/L | 20.0 | 06/13/22 02:13 | |
| 92608869009 | T2-4HTS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:01 | |
| | | R | | | | |
| | pH | 7.56 | Std. Units | | 06/09/22 16:01 | |
| EPA 6010C | Calcium | 208 | mg/L | 10.0 | 06/24/22 14:03 | |
| EPA 6010C | Magnesium | 647 | mg/L | 10.0 | 06/24/22 14:03 | |
| EPA 6010C | Potassium | 235 | mg/L | 50.0 | 06/24/22 14:03 | |
| EPA 6010C | Sodium | 4990 | mg/L | 40.0 | 06/24/22 14:53 | |
| EPA 6020B | Boron | 3.0 | mg/L | 2.5 | 07/13/22 18:47 | |
| EPA 6020B | Lithium | 0.096J | mg/L | 0.12 | 07/13/22 18:47 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 86.6 | mg/L | 5.0 | 06/15/22 17:58 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 86.6 | mg/L | 5.0 | 06/15/22 17:58 | |
| SM 2540C-2015 | Total Dissolved Solids | 19900 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3700 | mg/L | 100 | 06/14/22 02:26 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.0J | mg/L | 2.0 | 06/13/22 02:28 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1040 | mg/L | 20.0 | 06/13/22 02:28 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869010 | T3-4HT | | | | | |
| | Performed by | CUSTOMER | | | 06/09/22 16:01 | |
| | pH | 7.37 | Std. Units | | 06/09/22 16:01 | |
| EPA 6010C | Calcium | 247 | mg/L | 10.0 | 06/24/22 14:05 | |
| EPA 6010C | Magnesium | 775 | mg/L | 10.0 | 06/24/22 14:05 | |
| EPA 6010C | Potassium | 283 | mg/L | 50.0 | 06/24/22 14:05 | |
| EPA 6010C | Sodium | 5870 | mg/L | 40.0 | 06/24/22 14:55 | |
| EPA 6020B | Boron | 3.3 | mg/L | 2.5 | 07/13/22 20:36 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 20:36 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 101 | mg/L | 5.0 | 06/15/22 18:07 | M1 |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 101 | mg/L | 5.0 | 06/15/22 18:07 | M1 |
| SM 2540C-2015 | Total Dissolved Solids | 22800 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3930 | mg/L | 100 | 06/14/22 02:42 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 02:44 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1240 | mg/L | 20.0 | 06/13/22 02:44 | |
| 92608869011 | T3-4HTS | | | | | |
| | Performed by | CUSTOMER | | | 06/09/22 16:02 | |
| | pH | 7.51 | Std. Units | | 06/09/22 16:02 | |
| EPA 6010C | Calcium | 171 | mg/L | 10.0 | 06/24/22 14:10 | |
| EPA 6010C | Magnesium | 521 | mg/L | 10.0 | 06/24/22 14:10 | |
| EPA 6010C | Potassium | 187 | mg/L | 50.0 | 06/24/22 14:10 | |
| EPA 6010C | Sodium | 4080 | mg/L | 40.0 | 06/24/22 14:57 | |
| EPA 6020B | Boron | 2.4J | mg/L | 2.5 | 07/13/22 20:40 | |
| EPA 6020B | Lithium | 0.079J | mg/L | 0.12 | 07/13/22 20:40 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 73.1 | mg/L | 5.0 | 06/15/22 18:33 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 73.1 | mg/L | 5.0 | 06/15/22 18:33 | |
| SM 2540C-2015 | Total Dissolved Solids | 16900 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 2660 | mg/L | 100 | 06/14/22 03:30 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 861 | mg/L | 20.0 | 06/13/22 03:00 | |
| 92608869012 | T4-1HB | | | | | |
| | Performed by | CUSTOMER | | | 06/09/22 16:02 | |
| | pH | 7.34 | Std. Units | | 06/09/22 16:02 | |
| EPA 6010C | Calcium | 245 | mg/L | 10.0 | 06/24/22 14:12 | |
| EPA 6010C | Magnesium | 770 | mg/L | 10.0 | 06/24/22 14:12 | |
| EPA 6010C | Potassium | 280 | mg/L | 50.0 | 06/24/22 14:12 | |
| EPA 6010C | Sodium | 5830 | mg/L | 40.0 | 06/24/22 14:59 | |
| EPA 6020B | Boron | 3.5 | mg/L | 2.5 | 07/13/22 20:43 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 20:43 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 96.6 | mg/L | 5.0 | 06/15/22 18:41 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 96.6 | mg/L | 5.0 | 06/15/22 18:41 | |
| SM 2540C-2015 | Total Dissolved Solids | 22900 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3930 | mg/L | 100 | 06/14/22 04:06 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 03:36 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1250 | mg/L | 20.0 | 06/13/22 03:36 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869013 | T4-1HS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:02 | |
| | | R | | | | |
| | pH | 7.03 | Std. Units | | 06/09/22 16:02 | |
| EPA 6010C | Calcium | 241 | mg/L | 10.0 | 06/24/22 14:13 | |
| EPA 6010C | Magnesium | 760 | mg/L | 10.0 | 06/24/22 14:13 | |
| EPA 6010C | Potassium | 279 | mg/L | 50.0 | 06/24/22 14:13 | |
| EPA 6010C | Sodium | 5790 | mg/L | 40.0 | 06/24/22 15:01 | |
| EPA 6020B | Boron | 3.5 | mg/L | 2.5 | 07/13/22 20:47 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 20:47 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 98.9 | mg/L | 5.0 | 06/15/22 19:00 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 98.9 | mg/L | 5.0 | 06/15/22 19:00 | |
| SM 2540C-2015 | Total Dissolved Solids | 18900 | mg/L | 2500 | 06/11/22 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4040 | mg/L | 100 | 06/14/22 04:22 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 03:52 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1240 | mg/L | 20.0 | 06/13/22 03:52 | |
| 92608869014 | T4-2HB | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:02 | |
| | | R | | | | |
| | pH | 7.38 | Std. Units | | 06/09/22 16:02 | |
| EPA 6010C | Calcium | 251 | mg/L | 10.0 | 06/24/22 14:15 | |
| EPA 6010C | Magnesium | 787 | mg/L | 10.0 | 06/24/22 14:15 | |
| EPA 6010C | Potassium | 287 | mg/L | 50.0 | 06/24/22 14:15 | |
| EPA 6010C | Sodium | 6000 | mg/L | 40.0 | 06/24/22 15:03 | |
| EPA 6020B | Boron | 3.7 | mg/L | 2.5 | 07/13/22 20:51 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 20:51 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 99.8 | mg/L | 5.0 | 06/15/22 19:09 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 99.8 | mg/L | 5.0 | 06/15/22 19:09 | |
| SM 2540C-2015 | Total Dissolved Solids | 23100 | mg/L | 2500 | 06/11/22 11:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4140 | mg/L | 100 | 06/14/22 04:37 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 04:08 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1300 | mg/L | 20.0 | 06/13/22 04:08 | |
| 92608869015 | T4-2HS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:02 | |
| | | R | | | | |
| | pH | 7.49 | Std. Units | | 06/09/22 16:02 | |
| EPA 6010C | Calcium | 236 | mg/L | 10.0 | 06/24/22 14:17 | |
| EPA 6010C | Magnesium | 741 | mg/L | 10.0 | 06/24/22 14:17 | |
| EPA 6010C | Potassium | 272 | mg/L | 50.0 | 06/24/22 14:17 | |
| EPA 6010C | Sodium | 5670 | mg/L | 40.0 | 06/24/22 15:04 | |
| EPA 6020B | Boron | 3.4 | mg/L | 2.5 | 07/13/22 21:06 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 21:06 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 99.6 | mg/L | 5.0 | 06/15/22 19:19 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 99.6 | mg/L | 5.0 | 06/15/22 19:19 | |
| SM 2540C-2015 | Total Dissolved Solids | 21400 | mg/L | 2500 | 06/11/22 11:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3860 | mg/L | 100 | 06/14/22 04:53 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 04:23 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1210 | mg/L | 20.0 | 06/13/22 04:23 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869016 | T4-3HB | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:03 | |
| | | R | | | | |
| | pH | 7.33 | Std. Units | | 06/09/22 16:03 | |
| EPA 6010C | Calcium | 249 | mg/L | 10.0 | 06/24/22 14:18 | |
| EPA 6010C | Magnesium | 787 | mg/L | 10.0 | 06/24/22 14:18 | |
| EPA 6010C | Potassium | 285 | mg/L | 50.0 | 06/24/22 14:18 | |
| EPA 6010C | Sodium | 6020 | mg/L | 40.0 | 06/24/22 15:06 | |
| EPA 6020B | Boron | 3.5 | mg/L | 2.5 | 07/13/22 21:10 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 21:10 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 105 | mg/L | 5.0 | 06/15/22 19:29 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 105 | mg/L | 5.0 | 06/15/22 19:29 | |
| SM 2540C-2015 | Total Dissolved Solids | 24700 | mg/L | 2500 | 06/11/22 11:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4080 | mg/L | 100 | 06/14/22 05:09 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.1J | mg/L | 2.0 | 06/13/22 04:39 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1360 | mg/L | 20.0 | 06/13/22 04:39 | |
| 92608869017 | T4-3HS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:03 | |
| | | R | | | | |
| | pH | 7.51 | Std. Units | | 06/09/22 16:03 | |
| EPA 6010C | Calcium | 242 | mg/L | 10.0 | 06/24/22 14:20 | |
| EPA 6010C | Magnesium | 761 | mg/L | 10.0 | 06/24/22 14:20 | |
| EPA 6010C | Potassium | 279 | mg/L | 50.0 | 06/24/22 14:20 | |
| EPA 6010C | Sodium | 5880 | mg/L | 40.0 | 06/24/22 15:14 | |
| EPA 6020B | Boron | 3.4 | mg/L | 2.5 | 07/13/22 21:18 | |
| EPA 6020B | Lithium | 0.10J | mg/L | 0.12 | 07/13/22 21:18 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 97.5 | mg/L | 5.0 | 06/15/22 19:39 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 97.5 | mg/L | 5.0 | 06/15/22 19:39 | |
| SM 2540C-2015 | Total Dissolved Solids | 20800 | mg/L | 2500 | 06/11/22 11:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 8700 | mg/L | 100 | 06/14/22 20:24 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1160 | mg/L | 100 | 06/14/22 20:24 | |
| 92608869018 | T4-4HB | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:03 | |
| | | R | | | | |
| | pH | 7.49 | Std. Units | | 06/09/22 16:03 | |
| EPA 6010C | Calcium | 263 | mg/L | 10.0 | 06/24/22 14:22 | |
| EPA 6010C | Magnesium | 829 | mg/L | 10.0 | 06/24/22 14:22 | |
| EPA 6010C | Potassium | 305 | mg/L | 50.0 | 06/24/22 14:22 | |
| EPA 6010C | Sodium | 6340 | mg/L | 40.0 | 06/24/22 15:15 | |
| EPA 6020B | Boron | 3.8 | mg/L | 2.5 | 07/13/22 21:22 | |
| EPA 6020B | Lithium | 0.12J | mg/L | 0.12 | 07/13/22 21:22 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 106 | mg/L | 5.0 | 06/15/22 19:48 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 106 | mg/L | 5.0 | 06/15/22 19:48 | |
| SM 2540C-2015 | Total Dissolved Solids | 25000 | mg/L | 2500 | 06/11/22 11:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 9750 | mg/L | 100 | 06/14/22 20:39 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1300 | mg/L | 100 | 06/14/22 20:39 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608869019 | T4-4HS | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:04 | |
| | | R | | | | |
| | pH | 7.53 | Std. Units | | 06/09/22 16:04 | |
| EPA 6010C | Calcium | 248 | mg/L | 10.0 | 06/24/22 14:23 | |
| EPA 6010C | Magnesium | 782 | mg/L | 10.0 | 06/24/22 14:23 | |
| EPA 6010C | Potassium | 284 | mg/L | 50.0 | 06/24/22 14:23 | |
| EPA 6010C | Sodium | 5980 | mg/L | 40.0 | 06/24/22 15:17 | |
| EPA 6020B | Boron | 3.4 | mg/L | 2.5 | 07/13/22 21:57 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 21:57 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 101 | mg/L | 5.0 | 06/15/22 19:58 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 101 | mg/L | 5.0 | 06/15/22 19:58 | |
| SM 2540C-2015 | Total Dissolved Solids | 22000 | mg/L | 2500 | 06/11/22 11:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 9120 | mg/L | 100 | 06/14/22 20:55 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1190 | mg/L | 100 | 06/14/22 20:55 | |
| 92608869020 | BG-1LT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:04 | |
| | | R | | | | |
| | pH | 6.58 | Std. Units | | 06/09/22 16:04 | |
| EPA 6010C | Calcium | 222 | mg/L | 10.0 | 06/24/22 14:25 | |
| EPA 6010C | Magnesium | 690 | mg/L | 10.0 | 06/24/22 14:25 | |
| EPA 6010C | Potassium | 252 | mg/L | 50.0 | 06/24/22 14:25 | |
| EPA 6010C | Sodium | 5370 | mg/L | 40.0 | 06/24/22 15:19 | |
| EPA 6020B | Boron | 2.9 | mg/L | 2.5 | 07/13/22 22:00 | |
| EPA 6020B | Lithium | 0.097J | mg/L | 0.12 | 07/13/22 22:00 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 99.2 | mg/L | 5.0 | 06/16/22 11:56 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 99.2 | mg/L | 5.0 | 06/16/22 11:56 | |
| SM 2540C-2015 | Total Dissolved Solids | 23000 | mg/L | 2500 | 06/13/22 12:03 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 7920 | mg/L | 100 | 06/14/22 21:11 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1040 | mg/L | 100 | 06/14/22 21:11 | |
| 92608869021 | BG-2HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 16:04 | |
| | | R | | | | |
| | pH | 7.51 | Std. Units | | 06/09/22 16:04 | |
| EPA 6010C | Calcium | 284 | mg/L | 10.0 | 06/24/22 15:25 | |
| EPA 6010C | Magnesium | 890 | mg/L | 10.0 | 06/24/22 15:25 | |
| EPA 6010C | Potassium | 330 | mg/L | 50.0 | 06/24/22 15:25 | |
| EPA 6010C | Sodium | 6990 | mg/L | 100 | 06/24/22 15:48 | P6 |
| EPA 6020B | Boron | 3.6 | mg/L | 2.5 | 07/13/22 23:41 | M1 |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 23:41 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 118 | mg/L | 5.0 | 06/16/22 10:42 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 118 | mg/L | 5.0 | 06/16/22 10:42 | |
| SM 2540C-2015 | Total Dissolved Solids | 26000 | mg/L | 2500 | 06/11/22 11:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 10200 | mg/L | 200 | 06/15/22 00:43 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1370 | mg/L | 100 | 06/14/22 21:26 | |
| 92608869022 | DUP-1 | | | | | |
| EPA 6010C | Calcium | 243 | mg/L | 10.0 | 06/24/22 15:37 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92608869022 | DUP-1 | | | | | |
| EPA 6010C | Magnesium | 763 | mg/L | 10.0 | 06/24/22 15:37 | |
| EPA 6010C | Potassium | 280 | mg/L | 50.0 | 06/24/22 15:37 | |
| EPA 6010C | Sodium | 5830 | mg/L | 40.0 | 06/24/22 16:00 | |
| EPA 6020B | Boron | 3.2 | mg/L | 2.5 | 07/13/22 22:55 | |
| EPA 6020B | Lithium | 0.10J | mg/L | 0.12 | 07/13/22 22:55 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 104 | mg/L | 5.0 | 06/16/22 11:08 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 104 | mg/L | 5.0 | 06/16/22 11:08 | |
| SM 2540C-2015 | Total Dissolved Solids | 23500 | mg/L | 2500 | 06/11/22 11:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 8940 | mg/L | 100 | 06/14/22 06:38 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 5.8J | mg/L | 10.0 | 06/14/22 06:38 | D3 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1190 | mg/L | 100 | 06/14/22 06:38 | |
| 92608869023 | DUP-2 | | | | | |
| EPA 6010C | Calcium | 257 | mg/L | 10.0 | 06/24/22 15:39 | |
| EPA 6010C | Magnesium | 810 | mg/L | 10.0 | 06/24/22 15:39 | |
| EPA 6010C | Potassium | 293 | mg/L | 50.0 | 06/24/22 15:39 | |
| EPA 6010C | Sodium | 5950 | mg/L | 40.0 | 06/24/22 16:01 | |
| EPA 6020B | Boron | 3.3 | mg/L | 2.5 | 07/13/22 22:58 | |
| EPA 6020B | Lithium | 0.11J | mg/L | 0.12 | 07/13/22 22:58 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 109 | mg/L | 5.0 | 06/16/22 11:17 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 109 | mg/L | 5.0 | 06/16/22 11:17 | |
| SM 2540C-2015 | Total Dissolved Solids | 25800 | mg/L | 2500 | 06/11/22 11:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 8870 | mg/L | 100 | 06/14/22 06:53 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1170 | mg/L | 100 | 06/14/22 06:53 | |
| 92608869024 | DUP-3 | | | | | |
| EPA 6010C | Calcium | 207 | mg/L | 10.0 | 06/24/22 15:40 | |
| EPA 6010C | Magnesium | 639 | mg/L | 10.0 | 06/24/22 15:40 | |
| EPA 6010C | Potassium | 230 | mg/L | 50.0 | 06/24/22 15:40 | |
| EPA 6010C | Sodium | 4930 | mg/L | 40.0 | 06/24/22 16:03 | |
| EPA 6020B | Boron | 2.9 | mg/L | 2.5 | 07/13/22 23:02 | |
| EPA 6020B | Lithium | 0.090J | mg/L | 0.12 | 07/13/22 23:02 | D3 |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 94.6 | mg/L | 5.0 | 06/16/22 11:27 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 94.6 | mg/L | 5.0 | 06/16/22 11:27 | |
| SM 2540C-2015 | Total Dissolved Solids | 21800 | mg/L | 2500 | 06/11/22 11:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 7260 | mg/L | 100 | 06/14/22 07:41 | M1 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 950 | mg/L | 100 | 06/14/22 07:41 | M1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T1-4HT | | Lab ID: 92608869001 | | Collected: 06/07/22 18:06 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:00 | | |
| pH | 7.43 | Std. Units | | | 1 | | 06/09/22 16:00 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 242 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 13:40 | 7440-70-2 | |
| Magnesium | 755 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 13:40 | 7439-95-4 | |
| Potassium | 274 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 13:40 | 7440-09-7 | |
| Sodium | 5740 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:30 | 7440-23-5 | P6 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | 0.0049J | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 17:48 | 7440-38-2 | |
| Boron | 3.4 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 17:48 | 7440-42-8 | M1 |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 17:48 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 98.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:33 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:33 | | |
| Alkalinity, Total as CaCO ₃ | 98.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:33 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 22700 | mg/L | 2500 | 2500 | 1 | | 06/10/22 15:36 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3260 | mg/L | 100 | 60.0 | 100 | | 06/13/22 22:57 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/13/22 22:57 | 16984-48-8 | D3 |
| Sulfate | 380 | mg/L | 100 | 50.0 | 100 | | 06/13/22 22:57 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T1-4HTS Lab ID: 92608869002 Collected: 06/07/22 18:10 Received: 06/09/22 11:00 Matrix: Water | | | | | | | | | |
|--|-----------------|------------|--------------|--------|-----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:00 | | |
| pH | 7.50 | Std. Units | | | 1 | | 06/09/22 16:00 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 248 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 13:52 | 7440-70-2 | |
| Magnesium | 775 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 13:52 | 7439-95-4 | |
| Potassium | 282 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 13:52 | 7440-09-7 | |
| Sodium | 5990 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:38 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:19 | 7440-38-2 | D3 |
| Boron | 3.6 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:19 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:19 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 99.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:43 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:43 | | |
| Alkalinity, Total as CaCO ₃ | 99.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:43 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 24500 | mg/L | 2500 | 2500 | 1 | | 06/10/22 15:36 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4270 | mg/L | 100 | 60.0 | 100 | | 06/13/22 23:12 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/12/22 23:14 | 16984-48-8 | D3 |
| Sulfate | 1230 | mg/L | 20.0 | 10.0 | 20 | | 06/12/22 23:14 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T2-1HT | | Lab ID: 92608869003 | | Collected: 06/07/22 16:54 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:00 | | |
| pH | 7.55 | Std. Units | | | 1 | | 06/09/22 16:00 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 214 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 13:53 | 7440-70-2 | |
| Magnesium | 663 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 13:53 | 7439-95-4 | |
| Potassium | 242 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 13:53 | 7440-09-7 | |
| Sodium | 5180 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:40 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:23 | 7440-38-2 | D3 |
| Boron | 3.4 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:23 | 7440-42-8 | |
| Lithium | 0.098J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:23 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 87.5 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:53 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:53 | | |
| Alkalinity, Total as CaCO3 | 87.5 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 16:53 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 21200 | mg/L | 2500 | 2500 | 1 | | 06/10/22 15:36 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3560 | mg/L | 100 | 60.0 | 100 | | 06/13/22 23:28 | 16887-00-6 | |
| Fluoride | 1.0J | mg/L | 2.0 | 1.0 | 20 | | 06/12/22 23:30 | 16984-48-8 | D3 |
| Sulfate | 1050 | mg/L | 20.0 | 10.0 | 20 | | 06/12/22 23:30 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T2-2HT | | Lab ID: 92608869004 | | Collected: 06/07/22 17:05 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:00 | | |
| pH | 7.40 | Std. Units | | | 1 | | 06/09/22 16:00 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 244 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 13:55 | 7440-70-2 | |
| Magnesium | 762 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 13:55 | 7439-95-4 | |
| Potassium | 279 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 13:55 | 7440-09-7 | |
| Sodium | 5940 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:42 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:27 | 7440-38-2 | D3 |
| Boron | 3.8 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:27 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:27 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 98.5 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:02 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:02 | | |
| Alkalinity, Total as CaCO3 | 98.5 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:02 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 20600 | mg/L | 2500 | 2500 | 1 | | 06/10/22 15:36 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4550 | mg/L | 100 | 60.0 | 100 | | 06/14/22 00:36 | 16887-00-6 | |
| Fluoride | 1.0J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 00:06 | 16984-48-8 | D3 |
| Sulfate | 1210 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 00:06 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T2-2HTS | | Lab ID: 92608869005 | | Collected: 06/07/22 17:00 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:00 | | |
| pH | 7.49 | Std. Units | | | 1 | | 06/09/22 16:00 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 206 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 13:57 | 7440-70-2 | |
| Magnesium | 634 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 13:57 | 7439-95-4 | |
| Potassium | 232 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 13:57 | 7440-09-7 | |
| Sodium | 4990 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:43 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:32 | 7440-38-2 | D3 |
| Boron | 3.1 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:32 | 7440-42-8 | |
| Lithium | 0.098J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:32 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 83.3 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:22 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:22 | | |
| Alkalinity, Total as CaCO ₃ | 83.3 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:22 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 18400 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:40 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3430 | mg/L | 100 | 60.0 | 100 | | 06/14/22 00:52 | 16887-00-6 | |
| Fluoride | 1.0J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 00:22 | 16984-48-8 | D3 |
| Sulfate | 1010 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 00:22 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T2-3HT | | Lab ID: 92608869006 | | Collected: 06/07/22 17:28 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|--|-----------------|---------------------|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:01 | | |
| pH | 7.43 | Std. Units | | | 1 | | 06/09/22 16:01 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 253 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 13:58 | 7440-70-2 | |
| Magnesium | 795 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 13:58 | 7439-95-4 | |
| Potassium | 290 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 13:58 | 7440-09-7 | |
| Sodium | 6130 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:45 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:36 | 7440-38-2 | D3 |
| Boron | 3.8 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:36 | 7440-42-8 | |
| Lithium | 0.12J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:36 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 98.3 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:31 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:31 | | |
| Alkalinity, Total as CaCO3 | 98.3 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:31 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 24100 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:40 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4090 | mg/L | 100 | 60.0 | 100 | | 06/14/22 01:08 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 00:38 | 16984-48-8 | D3 |
| Sulfate | 1250 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 00:38 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Sample: T2-3HTS | | Lab ID: 92608869007 | | Collected: 06/07/22 17:24 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|--|-----------------|---------------------|--------------|---------------------------|--------------------------|----------------|----------------|------------|-------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:01 | | |
| pH | 7.58 | Std. Units | | | 1 | | 06/09/22 16:01 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 230 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:00 | 7440-70-2 | |
| Magnesium | 717 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:00 | 7439-95-4 | |
| Potassium | 263 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:00 | 7440-09-7 | |
| Sodium | 5530 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:50 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:40 | 7440-38-2 | D3 |
| Boron | 3.5 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:40 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:40 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 95.7 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:40 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:40 | | |
| Alkalinity, Total as CaCO3 | 95.7 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:40 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 23400 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3740 | mg/L | 100 | 60.0 | 100 | | 06/14/22 01:23 | 16887-00-6 | M1,R1 |
| Fluoride | 1.0J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 00:54 | 16984-48-8 | D3,M1 |
| Sulfate | 1210 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 00:54 | 14808-79-8 | M1 |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T2-4HT | | Lab ID: 92608869008 | | Collected: 06/07/22 17:45 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:01 | | |
| pH | 7.44 | Std. Units | | | 1 | | 06/09/22 16:01 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 229 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:02 | 7440-70-2 | |
| Magnesium | 718 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:02 | 7439-95-4 | |
| Potassium | 262 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:02 | 7440-09-7 | |
| Sodium | 5460 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:52 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:43 | 7440-38-2 | D3 |
| Boron | 3.3 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:43 | 7440-42-8 | |
| Lithium | 0.10J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:43 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 89.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:49 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:49 | | |
| Alkalinity, Total as CaCO ₃ | 89.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:49 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 21600 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3810 | mg/L | 100 | 60.0 | 100 | | 06/14/22 02:11 | 16887-00-6 | |
| Fluoride | 1.0J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 02:13 | 16984-48-8 | D3 |
| Sulfate | 1040 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 02:13 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T2-4HTS | | Lab ID: 92608869009 | | Collected: 06/07/22 17:40 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:01 | | |
| pH | 7.56 | Std. Units | | | 1 | | 06/09/22 16:01 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 208 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:03 | 7440-70-2 | |
| Magnesium | 647 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:03 | 7439-95-4 | |
| Potassium | 235 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:03 | 7440-09-7 | |
| Sodium | 4990 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:53 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 18:47 | 7440-38-2 | D3 |
| Boron | 3.0 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 18:47 | 7440-42-8 | |
| Lithium | 0.096J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 18:47 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 86.6 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:58 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:58 | | |
| Alkalinity, Total as CaCO3 | 86.6 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 17:58 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 19900 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3700 | mg/L | 100 | 60.0 | 100 | | 06/14/22 02:26 | 16887-00-6 | |
| Fluoride | 1.0J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 02:28 | 16984-48-8 | D3 |
| Sulfate | 1040 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 02:28 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

Sample: T3-4HT **Lab ID: 92608869010** Collected: 06/07/22 17:57 Received: 06/09/22 11:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|------------|--------------|--------|-----|----------------|----------------|------------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:01 | | |
| pH | 7.37 | Std. Units | | | 1 | | 06/09/22 16:01 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 247 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:05 | 7440-70-2 | |
| Magnesium | 775 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:05 | 7439-95-4 | |
| Potassium | 283 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:05 | 7440-09-7 | |
| Sodium | 5870 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:55 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 20:36 | 7440-38-2 | D3 |
| Boron | 3.3 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 20:36 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 20:36 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 101 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:07 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:07 | | |
| Alkalinity, Total as CaCO ₃ | 101 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:07 | | M1 |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 22800 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3930 | mg/L | 100 | 60.0 | 100 | | 06/14/22 02:42 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 02:44 | 16984-48-8 | D3 |
| Sulfate | 1240 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 02:44 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T3-4HTS | | Lab ID: 92608869011 | | Collected: 06/07/22 17:53 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:02 | | |
| pH | 7.51 | Std. Units | | | 1 | | 06/09/22 16:02 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 171 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:10 | 7440-70-2 | |
| Magnesium | 521 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:10 | 7439-95-4 | |
| Potassium | 187 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:10 | 7440-09-7 | |
| Sodium | 4080 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:57 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 20:40 | 7440-38-2 | D3 |
| Boron | 2.4J | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 20:40 | 7440-42-8 | |
| Lithium | 0.079J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 20:40 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 73.1 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:33 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:33 | | |
| Alkalinity, Total as CaCO ₃ | 73.1 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:33 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 16900 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 2660 | mg/L | 100 | 60.0 | 100 | | 06/14/22 03:30 | 16887-00-6 | |
| Fluoride | ND | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 03:00 | 16984-48-8 | D3 |
| Sulfate | 861 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 03:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T4-1HB | | Lab ID: 92608869012 | | Collected: 06/07/22 14:54 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:02 | | |
| pH | 7.34 | Std. Units | | | 1 | | 06/09/22 16:02 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 245 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:12 | 7440-70-2 | |
| Magnesium | 770 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:12 | 7439-95-4 | |
| Potassium | 280 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:12 | 7440-09-7 | |
| Sodium | 5830 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 14:59 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 20:43 | 7440-38-2 | D3 |
| Boron | 3.5 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 20:43 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 20:43 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 96.6 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:41 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:41 | | |
| Alkalinity, Total as CaCO ₃ | 96.6 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 18:41 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 22900 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3930 | mg/L | 100 | 60.0 | 100 | | 06/14/22 04:06 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 03:36 | 16984-48-8 | D3 |
| Sulfate | 1250 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 03:36 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T4-1HS | | Lab ID: 92608869013 | | Collected: 06/07/22 14:45 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:02 | | |
| pH | 7.03 | Std. Units | | | 1 | | 06/09/22 16:02 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 241 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:13 | 7440-70-2 | |
| Magnesium | 760 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:13 | 7439-95-4 | |
| Potassium | 279 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:13 | 7440-09-7 | |
| Sodium | 5790 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:01 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 20:47 | 7440-38-2 | D3 |
| Boron | 3.5 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 20:47 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 20:47 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 98.9 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:00 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:00 | | |
| Alkalinity, Total as CaCO3 | 98.9 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:00 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 18900 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4040 | mg/L | 100 | 60.0 | 100 | | 06/14/22 04:22 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 03:52 | 16984-48-8 | D3 |
| Sulfate | 1240 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 03:52 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T4-2HB Lab ID: 92608869014 Collected: 06/07/22 15:16 Received: 06/09/22 11:00 Matrix: Water | | | | | | | | | |
|--|-----------------|------------|--------------|--------|-----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:02 | | |
| pH | 7.38 | Std. Units | | | 1 | | 06/09/22 16:02 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 251 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:15 | 7440-70-2 | |
| Magnesium | 787 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:15 | 7439-95-4 | |
| Potassium | 287 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:15 | 7440-09-7 | |
| Sodium | 6000 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:03 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 20:51 | 7440-38-2 | D3 |
| Boron | 3.7 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 20:51 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 20:51 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 99.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:09 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:09 | | |
| Alkalinity, Total as CaCO ₃ | 99.8 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:09 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 23100 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:42 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4140 | mg/L | 100 | 60.0 | 100 | | 06/14/22 04:37 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 04:08 | 16984-48-8 | D3 |
| Sulfate | 1300 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 04:08 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Sample: T4-2HS | | Lab ID: 92608869015 | | Collected: 06/07/22 15:09 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|--|-----------------|---------------------|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:02 | | |
| pH | 7.49 | Std. Units | | | 1 | | 06/09/22 16:02 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 236 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:17 | 7440-70-2 | |
| Magnesium | 741 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:17 | 7439-95-4 | |
| Potassium | 272 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:17 | 7440-09-7 | |
| Sodium | 5670 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:04 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 21:06 | 7440-38-2 | D3 |
| Boron | 3.4 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 21:06 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 21:06 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 99.6 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:19 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:19 | | |
| Alkalinity, Total as CaCO3 | 99.6 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:19 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 21400 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:42 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 3860 | mg/L | 100 | 60.0 | 100 | | 06/14/22 04:53 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 04:23 | 16984-48-8 | D3 |
| Sulfate | 1210 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 04:23 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

Sample: T4-3HB **Lab ID: 92608869016** Collected: 06/07/22 15:38 Received: 06/09/22 11:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|------------|--------------|--------|-----|----------------|----------------|------------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:03 | | |
| pH | 7.33 | Std. Units | | | 1 | | 06/09/22 16:03 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 249 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:18 | 7440-70-2 | |
| Magnesium | 787 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:18 | 7439-95-4 | |
| Potassium | 285 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:18 | 7440-09-7 | |
| Sodium | 6020 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:06 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 21:10 | 7440-38-2 | D3 |
| Boron | 3.5 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 21:10 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 21:10 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 105 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:29 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:29 | | |
| Alkalinity, Total as CaCO3 | 105 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:29 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 24700 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:42 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4080 | mg/L | 100 | 60.0 | 100 | | 06/14/22 05:09 | 16887-00-6 | |
| Fluoride | 1.1J | mg/L | 2.0 | 1.0 | 20 | | 06/13/22 04:39 | 16984-48-8 | D3 |
| Sulfate | 1360 | mg/L | 20.0 | 10.0 | 20 | | 06/13/22 04:39 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T4-3HS | | Lab ID: 92608869017 | | Collected: 06/07/22 15:30 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:03 | | |
| pH | 7.51 | Std. Units | | | 1 | | 06/09/22 16:03 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 242 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:20 | 7440-70-2 | |
| Magnesium | 761 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:20 | 7439-95-4 | |
| Potassium | 279 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:20 | 7440-09-7 | |
| Sodium | 5880 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:14 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 21:18 | 7440-38-2 | D3 |
| Boron | 3.4 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 21:18 | 7440-42-8 | |
| Lithium | 0.10J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 21:18 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 97.5 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:39 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:39 | | |
| Alkalinity, Total as CaCO3 | 97.5 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:39 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 20800 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:42 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 8700 | mg/L | 100 | 60.0 | 100 | | 06/14/22 20:24 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 20:24 | 16984-48-8 | D3 |
| Sulfate | 1160 | mg/L | 100 | 50.0 | 100 | | 06/14/22 20:24 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T4-4HB | | Lab ID: 92608869018 | | Collected: 06/07/22 15:57 | | Received: 06/09/22 11:00 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:03 | | |
| pH | 7.49 | Std. Units | | | 1 | | 06/09/22 16:03 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 263 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:22 | 7440-70-2 | |
| Magnesium | 829 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:22 | 7439-95-4 | |
| Potassium | 305 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:22 | 7440-09-7 | |
| Sodium | 6340 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:15 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 21:22 | 7440-38-2 | D3 |
| Boron | 3.8 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 21:22 | 7440-42-8 | |
| Lithium | 0.12J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 21:22 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 106 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:48 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:48 | | |
| Alkalinity, Total as CaCO ₃ | 106 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:48 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 25000 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:42 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 9750 | mg/L | 100 | 60.0 | 100 | | 06/14/22 20:39 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 20:39 | 16984-48-8 | D3 |
| Sulfate | 1300 | mg/L | 100 | 50.0 | 100 | | 06/14/22 20:39 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: T4-4HS Lab ID: 92608869019 Collected: 06/07/22 15:52 Received: 06/09/22 11:00 Matrix: Water | | | | | | | | | |
|---|-----------------|------------|--------------|--------|-----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:04 | | |
| pH | 7.53 | Std. Units | | | 1 | | 06/09/22 16:04 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 248 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:23 | 7440-70-2 | |
| Magnesium | 782 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:23 | 7439-95-4 | |
| Potassium | 284 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:23 | 7440-09-7 | |
| Sodium | 5980 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:17 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 21:57 | 7440-38-2 | D3 |
| Boron | 3.4 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 21:57 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 21:57 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 101 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:58 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:58 | | |
| Alkalinity, Total as CaCO ₃ | 101 | mg/L | 5.0 | 5.0 | 1 | | 06/15/22 19:58 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 22000 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:43 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 9120 | mg/L | 100 | 60.0 | 100 | | 06/14/22 20:55 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 20:55 | 16984-48-8 | D3 |
| Sulfate | 1190 | mg/L | 100 | 50.0 | 100 | | 06/14/22 20:55 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: BG-1LT | | Lab ID: 92608869020 | | Collected: 06/08/22 10:20 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|--|-----------------|----------------------------|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:04 | | |
| pH | 6.58 | Std. Units | | | 1 | | 06/09/22 16:04 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 222 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 14:25 | 7440-70-2 | |
| Magnesium | 690 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 14:25 | 7439-95-4 | |
| Potassium | 252 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 14:25 | 7440-09-7 | |
| Sodium | 5370 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 15:19 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 22:00 | 7440-38-2 | D3 |
| Boron | 2.9 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 22:00 | 7440-42-8 | |
| Lithium | 0.097J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 22:00 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 99.2 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:56 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:56 | | |
| Alkalinity, Total as CaCO ₃ | 99.2 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:56 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 23000 | mg/L | 2500 | 2500 | 1 | | 06/13/22 12:03 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 7920 | mg/L | 100 | 60.0 | 100 | | 06/14/22 21:11 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 21:11 | 16984-48-8 | D3 |
| Sulfate | 1040 | mg/L | 100 | 50.0 | 100 | | 06/14/22 21:11 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Sample: BG-2HT | | Lab ID: 92608869021 | | Collected: 06/07/22 16:20 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|--|-----------------|----------------------------|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 16:04 | | |
| pH | 7.51 | Std. Units | | | 1 | | 06/09/22 16:04 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 284 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 15:25 | 7440-70-2 | |
| Magnesium | 890 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 15:25 | 7439-95-4 | |
| Potassium | 330 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 15:25 | 7440-09-7 | |
| Sodium | 6990 | mg/L | 100 | 6.6 | 5 | 06/23/22 05:41 | 06/24/22 15:48 | 7440-23-5 | P6 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 23:41 | 7440-38-2 | D3 |
| Boron | 3.6 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 23:41 | 7440-42-8 | M1 |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 23:41 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 118 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 10:42 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 10:42 | | |
| Alkalinity, Total as CaCO ₃ | 118 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 10:42 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 26000 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:43 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 10200 | mg/L | 200 | 120 | 200 | | 06/15/22 00:43 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 21:26 | 16984-48-8 | D3 |
| Sulfate | 1370 | mg/L | 100 | 50.0 | 100 | | 06/14/22 21:26 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: DUP-1 | | Lab ID: 92608869022 | | Collected: 06/07/22 00:00 | Received: 06/09/22 11:00 | Matrix: Water | | | | |
|-------------------------------------|--------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual | |
| 6010C MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium | 243 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 15:37 | 7440-70-2 | | |
| Magnesium | 763 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 15:37 | 7439-95-4 | | |
| Potassium | 280 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 15:37 | 7440-09-7 | | |
| Sodium | 5830 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 16:00 | 7440-23-5 | | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 22:55 | 7440-38-2 | D3 | |
| Boron | 3.2 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 22:55 | 7440-42-8 | | |
| Lithium | 0.10J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 22:55 | 7439-93-2 | D3 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 104 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:08 | | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:08 | | | |
| Alkalinity, Total as CaCO3 | 104 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:08 | | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | 23500 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:43 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 8940 | mg/L | 100 | 60.0 | 100 | | 06/14/22 06:38 | 16887-00-6 | | |
| Fluoride | 5.8J | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 06:38 | 16984-48-8 | D3 | |
| Sulfate | 1190 | mg/L | 100 | 50.0 | 100 | | 06/14/22 06:38 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: DUP-2 | | Lab ID: 92608869023 | | Collected: 06/07/22 00:00 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|---|--------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010C MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | |
| Calcium | 257 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 15:39 | 7440-70-2 | |
| Magnesium | 810 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 15:39 | 7439-95-4 | |
| Potassium | 293 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 15:39 | 7440-09-7 | |
| Sodium | 5950 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 16:01 | 7440-23-5 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 22:58 | 7440-38-2 | D3 |
| Boron | 3.3 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 22:58 | 7440-42-8 | |
| Lithium | 0.11J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 22:58 | 7439-93-2 | D3 |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 109 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:17 | | |
| Alkalinity,Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:17 | | |
| Alkalinity, Total as CaCO ₃ | 109 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:17 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 25800 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:43 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 8870 | mg/L | 100 | 60.0 | 100 | | 06/14/22 06:53 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 06:53 | 16984-48-8 | D3 |
| Sulfate | 1170 | mg/L | 100 | 50.0 | 100 | | 06/14/22 06:53 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

Sample: DUP-3 **Lab ID: 92608869024** Collected: 06/07/22 00:00 Received: 06/09/22 11:00 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------------|-------|--------|--------|-----|----------------|----------------|------------|-------|
| | | | Limit | MDL | DF | | | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 207 | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 15:40 | 7440-70-2 | |
| Magnesium | 639 | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 15:40 | 7439-95-4 | |
| Potassium | 230 | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 15:40 | 7440-09-7 | |
| Sodium | 4930 | mg/L | 40.0 | 2.6 | 2 | 06/23/22 05:41 | 06/24/22 16:03 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.050 | 0.0043 | 50 | 07/13/22 00:48 | 07/13/22 23:02 | 7440-38-2 | D3 |
| Boron | 2.9 | mg/L | 2.5 | 0.42 | 50 | 07/13/22 00:48 | 07/13/22 23:02 | 7440-42-8 | |
| Lithium | 0.090J | mg/L | 0.12 | 0.025 | 50 | 07/13/22 00:48 | 07/13/22 23:02 | 7439-93-2 | D3 |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO ₃) | 94.6 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:27 | | |
| Alkalinity,Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:27 | | |
| Alkalinity, Total as CaCO ₃ | 94.6 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:27 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 21800 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:43 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 7260 | mg/L | 100 | 60.0 | 100 | | 06/14/22 07:41 | 16887-00-6 | M1 |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 07:41 | 16984-48-8 | D3,M1 |
| Sulfate | 950 | mg/L | 100 | 50.0 | 100 | | 06/14/22 07:41 | 14808-79-8 | M1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Sample: FB-1 | | Lab ID: 92608869025 | | Collected: 06/08/22 08:55 | Received: 06/09/22 11:00 | Matrix: Water | | | | |
|---|---------|--|--------|---------------------------|--------------------------|----------------|----------------|------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010C MET ICP | | Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | |
| Calcium | ND | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 15:42 | 7440-70-2 | | |
| Magnesium | ND | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 15:42 | 7439-95-4 | | |
| Potassium | ND | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 15:42 | 7440-09-7 | | |
| Sodium | ND | mg/L | 20.0 | 1.3 | 1 | 06/23/22 05:41 | 06/24/22 15:42 | 7440-23-5 | | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | |
| Arsenic | ND | mg/L | 0.0010 | 0.000087 | 1 | 06/18/22 16:52 | 06/19/22 18:25 | 7440-38-2 | | |
| Boron | ND | mg/L | 0.050 | 0.0085 | 1 | 06/18/22 16:52 | 06/19/22 18:25 | 7440-42-8 | | |
| Lithium | ND | mg/L | 0.0025 | 0.00050 | 1 | 06/18/22 16:52 | 06/19/22 18:25 | 7439-93-2 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 12:05 | | | |
| Alkalinity,Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 12:05 | | | |
| Alkalinity, Total as CaCO ₃ | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 12:05 | | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 06/13/22 12:03 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 06/14/22 08:28 | 16887-00-6 | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 06/14/22 08:28 | 16984-48-8 | | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 06/14/22 08:28 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

Sample: EB-1 **Lab ID: 92608869026** Collected: 06/08/22 09:00 Received: 06/09/22 11:00 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | ND | mg/L | 10.0 | 0.46 | 1 | 06/23/22 05:41 | 06/24/22 15:44 | 7440-70-2 | |
| Magnesium | ND | mg/L | 10.0 | 0.16 | 1 | 06/23/22 05:41 | 06/24/22 15:44 | 7439-95-4 | |
| Potassium | ND | mg/L | 50.0 | 1.7 | 1 | 06/23/22 05:41 | 06/24/22 15:44 | 7440-09-7 | |
| Sodium | ND | mg/L | 20.0 | 1.3 | 1 | 06/23/22 05:41 | 06/24/22 15:44 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | ND | mg/L | 0.0010 | 0.000087 | 1 | 06/21/22 12:15 | 06/21/22 21:22 | 7440-38-2 | |
| Boron | ND | mg/L | 0.050 | 0.0085 | 1 | 06/21/22 12:15 | 06/21/22 21:22 | 7440-42-8 | |
| Lithium | ND | mg/L | 0.0025 | 0.00050 | 1 | 06/21/22 12:15 | 06/21/22 21:22 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 12:10 | | |
| Alkalinity,Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 12:10 | | |
| Alkalinity, Total as CaCO ₃ | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 12:10 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 06/13/22 12:03 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 06/14/22 08:44 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 06/14/22 08:44 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 06/14/22 08:44 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 823415 | Analysis Method: | EPA 6010C |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010C Water |
| | | Laboratory: | Pace Analytical Services - Minneapolis |

Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019, 92608869020

METHOD BLANK: 4362950 Matrix: Water
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019, 92608869020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|--------|----------------|------------|
| Calcium | mg/L | ND | 0.50 | 0.023 | 06/24/22 13:36 | |
| Magnesium | mg/L | ND | 0.50 | 0.0078 | 06/24/22 13:36 | |
| Potassium | mg/L | ND | 2.5 | 0.087 | 06/24/22 13:36 | |
| Sodium | mg/L | ND | 1.0 | 0.066 | 06/24/22 13:36 | |

LABORATORY CONTROL SAMPLE: 4362951

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 20 | 18.9 | 95 | 80-120 | |
| Magnesium | mg/L | 20 | 19.1 | 95 | 80-120 | |
| Potassium | mg/L | 20 | 18.9 | 95 | 80-120 | |
| Sodium | mg/L | 20 | 18.7 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4362952 4362953

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 92608869001 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Calcium | mg/L | 242 | 400 | 400 | 612 | 611 | 92 | 92 | 75-125 | 0 | 20 |
| Magnesium | mg/L | 755 | 400 | 400 | 1110 | 1110 | 90 | 89 | 75-125 | 0 | 20 |
| Potassium | mg/L | 274 | 400 | 400 | 694 | 691 | 105 | 104 | 75-125 | 0 | 20 |
| Sodium | mg/L | 5740 | 400 | 400 | 6110 | 6030 | 93 | 74 | 75-125 | 1 | 20 P6 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 823416 Analysis Method: EPA 6010C
QC Batch Method: EPA 3010A Analysis Description: 6010C Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92608869021, 92608869022, 92608869023, 92608869024, 92608869025, 92608869026

METHOD BLANK: 4362954 Matrix: Water
Associated Lab Samples: 92608869021, 92608869022, 92608869023, 92608869024, 92608869025, 92608869026

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|--------|----------------|------------|
| Calcium | mg/L | ND | 0.50 | 0.023 | 06/24/22 15:22 | |
| Magnesium | mg/L | ND | 0.50 | 0.0078 | 06/24/22 15:22 | |
| Potassium | mg/L | ND | 2.5 | 0.087 | 06/24/22 15:22 | |
| Sodium | mg/L | ND | 1.0 | 0.066 | 06/24/22 15:22 | |

LABORATORY CONTROL SAMPLE: 4362955

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 20 | 19.3 | 97 | 80-120 | |
| Magnesium | mg/L | 20 | 19.7 | 98 | 80-120 | |
| Potassium | mg/L | 20 | 19.4 | 97 | 80-120 | |
| Sodium | mg/L | 20 | 19.2 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4362956 4362957

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 92608869021 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Calcium | mg/L | 284 | 400 | 400 | 649 | 682 | 91 | 99 | 75-125 | 5 | 20 |
| Magnesium | mg/L | 890 | 400 | 400 | 1240 | 1320 | 88 | 107 | 75-125 | 6 | 20 |
| Potassium | mg/L | 330 | 400 | 400 | 743 | 783 | 103 | 113 | 75-125 | 5 | 20 |
| Sodium | mg/L | 6990 | 400 | 400 | 7040 | 7460 | 14 | 117 | 75-125 | 6 | 20 P6 |

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 705475 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608869025

METHOD BLANK: 3681135 Matrix: Water
Associated Lab Samples: 92608869025

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic | mg/L | ND | 0.0010 | 0.000087 | 06/19/22 18:13 | |
| Boron | mg/L | ND | 0.050 | 0.0085 | 06/19/22 18:13 | |
| Lithium | mg/L | ND | 0.0025 | 0.00050 | 06/19/22 18:13 | |

LABORATORY CONTROL SAMPLE: 3681136

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.05 | 0.050 | 100 | 80-120 | |
| Boron | mg/L | 0.05 | 0.051 | 102 | 80-120 | |
| Lithium | mg/L | 0.05 | 0.050 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681137 3681138

| Parameter | Units | 92606866011 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | Spike Conc. | MSD Result | | | | | | |
| Arsenic | mg/L | ND | 0.05 | 0.05 | 0.050 | 0.050 | 101 | 101 | 75-125 | 0 | 20 | |
| Boron | mg/L | ND | 0.05 | 0.05 | 0.051 | 0.051 | 100 | 102 | 75-125 | 2 | 20 | |
| Lithium | mg/L | ND | 0.05 | 0.05 | 0.051 | 0.051 | 101 | 102 | 75-125 | 0 | 20 | CL |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 705909 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608869026

METHOD BLANK: 3682937 Matrix: Water
Associated Lab Samples: 92608869026

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic | mg/L | ND | 0.0010 | 0.000087 | 06/21/22 21:15 | |
| Boron | mg/L | ND | 0.050 | 0.0085 | 06/21/22 21:15 | |
| Lithium | mg/L | ND | 0.0025 | 0.00050 | 06/21/22 21:15 | |

LABORATORY CONTROL SAMPLE: 3682938

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.05 | 0.050 | 100 | 80-120 | |
| Boron | mg/L | 0.05 | 0.050J | 100 | 80-120 | |
| Lithium | mg/L | 0.05 | 0.050 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3682939 3682940

| Parameter | Units | 92608869026 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Arsenic | mg/L | ND | 0.05 | 0.05 | 0.051 | 0.052 | 101 | 104 | 75-125 | 3 | 20 | |
| Boron | mg/L | ND | 0.05 | 0.05 | 0.049J | 0.051 | 90 | 96 | 75-125 | | 20 | |
| Lithium | mg/L | ND | 0.05 | 0.05 | 0.050 | 0.051 | 100 | 102 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| | | | |
|------------------|-----------|-----------------------|--------------------------------------|
| QC Batch: | 710140 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019, 92608869020

METHOD BLANK: 3703302 Matrix: Water
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019, 92608869020

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic | mg/L | ND | 0.0010 | 0.000087 | 07/13/22 14:11 | |
| Boron | mg/L | ND | 0.050 | 0.0085 | 07/13/22 17:41 | |
| Lithium | mg/L | ND | 0.0025 | 0.00050 | 07/13/22 14:11 | |

LABORATORY CONTROL SAMPLE: 3703303

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.05 | 0.050 | 100 | 80-120 | |
| Boron | mg/L | 0.05 | 0.053 | 105 | 80-120 | |
| Lithium | mg/L | 0.05 | 0.050 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3703304 3703305

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | 92608869001 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Arsenic | mg/L | 0.0049J | 0.05 | 0.05 | 0.063 | 0.059 | 116 | 109 | 75-125 | 6 | 20 |
| Boron | mg/L | 3.4 | 0.05 | 0.05 | 3.7 | 3.8 | 668 | 792 | 75-125 | 2 | 20 M1 |
| Lithium | mg/L | 0.11J | 0.05 | 0.05 | 0.16 | 0.16 | 110 | 106 | 75-125 | 1 | 20 |

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 710141 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869021, 92608869022, 92608869023, 92608869024

METHOD BLANK: 3703306 Matrix: Water
Associated Lab Samples: 92608869021, 92608869022, 92608869023, 92608869024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic | mg/L | ND | 0.0010 | 0.000087 | 07/13/22 23:33 | |
| Boron | mg/L | ND | 0.050 | 0.0085 | 07/13/22 23:33 | |
| Lithium | mg/L | ND | 0.0025 | 0.00050 | 07/13/22 23:33 | |

LABORATORY CONTROL SAMPLE: 3703307

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.05 | 0.048 | 96 | 80-120 | |
| Boron | mg/L | 0.05 | 0.049J | 99 | 80-120 | |
| Lithium | mg/L | 0.05 | 0.048 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3703308 3703309

| Parameter | Units | 92608869021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Arsenic | mg/L | ND | 0.05 | 0.05 | 0.055 | 0.060 | 103 | 113 | 75-125 | 8 | 20 | |
| Boron | mg/L | 3.6 | 0.05 | 0.05 | 3.8 | 4.3 | 378 | 1370 | 75-125 | 12 | 20 | M1 |
| Lithium | mg/L | 0.11J | 0.05 | 0.05 | 0.16 | 0.16 | 96 | 102 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 704567 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019

METHOD BLANK: 3676445 Matrix: Water
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 06/15/22 15:57 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 06/15/22 15:57 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 06/15/22 15:57 | |

LABORATORY CONTROL SAMPLE: 3676446

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.0 | 100 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3676447

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.4 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676448 3676449

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------|-------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 42.3 | 50 | 50 | 50 | 91.8 | 90.5 | 99 | 96 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676450 3676451

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------|-------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 101 | 50 | 50 | 50 | 144 | 140 | 87 | 78 | 80-120 | 3 | 25 | M1 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 704687 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869020, 92608869021, 92608869022, 92608869023, 92608869024, 92608869025, 92608869026

METHOD BLANK: 3677119 Matrix: Water
Associated Lab Samples: 92608869020, 92608869021, 92608869022, 92608869023, 92608869024, 92608869025, 92608869026

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 06/16/22 10:22 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 06/16/22 10:22 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 06/16/22 10:22 | |

LABORATORY CONTROL SAMPLE: 3677120

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.2 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3677121

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.4 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677122 3677123

| Parameter | Units | 3677122 | | 3677123 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92608869021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Alkalinity, Total as CaCO3 | mg/L | 118 | 50 | 50 | 168 | 166 | 101 | 98 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677124 3677125

| Parameter | Units | 3677124 | | 3677125 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92609055032 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Alkalinity, Total as CaCO3 | mg/L | 58.7 | 50 | 50 | 115 | 115 | 112 | 112 | 80-120 | 0 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 703674 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004

METHOD BLANK: 3672042 Matrix: Water
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 06/10/22 15:32 | |

LABORATORY CONTROL SAMPLE: 3672043

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 244 | 98 | 90-110 | |

SAMPLE DUPLICATE: 3672044

| Parameter | Units | 92608790010 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 210 | 211 | 0 | 25 | |

SAMPLE DUPLICATE: 3672045

| Parameter | Units | 92608790020 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 151 | 147 | 3 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| | | | |
|------------------|---------------|-----------------------|--------------------------------------|
| QC Batch: | 703821 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019, 92608869021, 92608869022, 92608869023, 92608869024

METHOD BLANK: 3673168 Matrix: Water

Associated Lab Samples: 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016, 92608869017, 92608869018, 92608869019, 92608869021, 92608869022, 92608869023, 92608869024

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 06/11/22 11:40 | |

LABORATORY CONTROL SAMPLE: 3673169

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 258 | 103 | 90-110 | |

SAMPLE DUPLICATE: 3673170

| Parameter | Units | 92608869005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 18400 | 19700 | 7 | 25 | |

SAMPLE DUPLICATE: 3673171

| Parameter | Units | 92608869015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 21400 | 23600 | 10 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 703871 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869020, 92608869025, 92608869026

METHOD BLANK: 3673282 Matrix: Water
Associated Lab Samples: 92608869020, 92608869025, 92608869026

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 06/13/22 12:01 | |

LABORATORY CONTROL SAMPLE: 3673283

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 252 | 101 | 90-110 | |

SAMPLE DUPLICATE: 3673284

| Parameter | Units | 92608728008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 564 | 572 | 1 | 25 | |

SAMPLE DUPLICATE: 3673285

| Parameter | Units | 92608958001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | ND | | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 703913 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016

METHOD BLANK: 3673346 Matrix: Water
Associated Lab Samples: 92608869001, 92608869002, 92608869003, 92608869004, 92608869005, 92608869006, 92608869007, 92608869008, 92608869009, 92608869010, 92608869011, 92608869012, 92608869013, 92608869014, 92608869015, 92608869016

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 06/12/22 19:35 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 06/12/22 19:35 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 06/12/22 19:35 | |

LABORATORY CONTROL SAMPLE: 3673347

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 51.8 | 104 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 102 | 90-110 | |
| Sulfate | mg/L | 50 | 50.1 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673348 3673349

| Parameter | Units | 92609177001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max | | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|-----|------|
| | | | | | | | | | | RPD | RPD | |
| Chloride | mg/L | | 50 | 50 | 57.8 | 58.4 | 102 | 103 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | | 2.5 | 2.5 | 2.7 | 2.7 | 103 | 105 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | | 50 | 50 | 59.9 | 60.8 | 101 | 103 | 90-110 | 2 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673350 3673351

| Parameter | Units | 92608869007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max | | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|-----|-------|
| | | | | | | | | | | RPD | RPD | |
| Chloride | mg/L | 3740 | 50 | 50 | 3840 | 4320 | 203 | 1170 | 90-110 | 12 | 10 | M1,R1 |
| Fluoride | mg/L | 1.0J | 2.5 | 2.5 | 2.5 | 2.5 | 57 | 60 | 90-110 | 3 | 10 | M1 |
| Sulfate | mg/L | 1210 | 50 | 50 | 1180 | 1180 | -46 | -47 | 90-110 | 0 | 10 | M1 |

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 704144 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92608869017, 92608869018, 92608869019, 92608869020, 92608869021, 92608869022, 92608869023

METHOD BLANK: 3674648 Matrix: Water
Associated Lab Samples: 92608869017, 92608869018, 92608869019, 92608869020, 92608869021, 92608869022, 92608869023

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 06/13/22 22:41 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 06/13/22 22:41 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 06/13/22 22:41 | |

LABORATORY CONTROL SAMPLE: 3674649

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 53.5 | 107 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 109 | 90-110 | |
| Sulfate | mg/L | 50 | 52.2 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674650 3674651

| Parameter | Units | 92608334002 | | 3674650 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Chloride | mg/L | 95.1 | 50 | 50 | 116 | 115 | 41 | 39 | 90-110 | 1 | 10 | M1 | |
| Fluoride | mg/L | 0.43 | 2.5 | 2.5 | 3.1 | 3.0 | 106 | 105 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 48.0 | 50 | 50 | 97.7 | 98.2 | 99 | 100 | 90-110 | 0 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674764 3674765

| Parameter | Units | 92608304001 | | 3674765 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Chloride | mg/L | 11.0 | 50 | 50 | 61.5 | 61.8 | 101 | 102 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 0.40 | 2.5 | 2.5 | 2.9 | 2.9 | 99 | 98 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 24.9 | 50 | 50 | 74.6 | 76.0 | 99 | 102 | 90-110 | 2 | 10 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

QC Batch: 704146 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92608869024, 92608869025, 92608869026

METHOD BLANK: 3674655 Matrix: Water
Associated Lab Samples: 92608869024, 92608869025, 92608869026

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 06/14/22 07:09 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 06/14/22 07:09 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 06/14/22 07:09 | |

LABORATORY CONTROL SAMPLE: 3674656

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 54.1 | 108 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 108 | 90-110 | |
| Sulfate | mg/L | 50 | 52.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674657 3674658

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92608869024 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 7260 | 50 | 50 | 7230 | 7340 | -53 | 157 | 90-110 | 1 | 10 | M1 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 5.7J | 5.5J | 32 | 24 | 90-110 | | 10 | D3,M1 | |
| Sulfate | mg/L | 950 | 50 | 50 | 977 | 990 | 55 | 80 | 90-110 | 1 | 10 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674766 3674767

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92608137004 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 13.8 | 50 | 50 | 65.3 | 65.6 | 103 | 103 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 0.15 | 2.5 | 2.5 | 2.6 | 2.7 | 100 | 101 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 11.6 | 50 | 50 | 62.5 | 63.0 | 102 | 103 | 90-110 | 1 | 10 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

| | |
|----|---|
| CL | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low. |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| R1 | RPD value was outside control limits. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 92608869001 | T1-4HT | | | | |
| 92608869002 | T1-4HTS | | | | |
| 92608869003 | T2-1HT | | | | |
| 92608869004 | T2-2HT | | | | |
| 92608869005 | T2-2HTS | | | | |
| 92608869006 | T2-3HT | | | | |
| 92608869007 | T2-3HTS | | | | |
| 92608869008 | T2-4HT | | | | |
| 92608869009 | T2-4HTS | | | | |
| 92608869010 | T3-4HT | | | | |
| 92608869011 | T3-4HTS | | | | |
| 92608869012 | T4-1HB | | | | |
| 92608869013 | T4-1HS | | | | |
| 92608869014 | T4-2HB | | | | |
| 92608869015 | T4-2HS | | | | |
| 92608869016 | T4-3HB | | | | |
| 92608869017 | T4-3HS | | | | |
| 92608869018 | T4-4HB | | | | |
| 92608869019 | T4-4HS | | | | |
| 92608869020 | BG-1LT | | | | |
| 92608869021 | BG-2HT | | | | |
| 92608869001 | T1-4HT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869002 | T1-4HTS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869003 | T2-1HT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869004 | T2-2HT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869005 | T2-2HTS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869006 | T2-3HT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869007 | T2-3HTS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869008 | T2-4HT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869009 | T2-4HTS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869010 | T3-4HT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869011 | T3-4HTS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869012 | T4-1HB | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869013 | T4-1HS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869014 | T4-2HB | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869015 | T4-2HS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869016 | T4-3HB | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869017 | T4-3HS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869018 | T4-4HB | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869019 | T4-4HS | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869020 | BG-1LT | EPA 3010A | 823415 | EPA 6010C | 823927 |
| 92608869021 | BG-2HT | EPA 3010A | 823416 | EPA 6010C | 823923 |
| 92608869022 | DUP-1 | EPA 3010A | 823416 | EPA 6010C | 823923 |
| 92608869023 | DUP-2 | EPA 3010A | 823416 | EPA 6010C | 823923 |
| 92608869024 | DUP-3 | EPA 3010A | 823416 | EPA 6010C | 823923 |
| 92608869025 | FB-1 | EPA 3010A | 823416 | EPA 6010C | 823923 |
| 92608869026 | EB-1 | EPA 3010A | 823416 | EPA 6010C | 823923 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 92608869001 | T1-4HT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869002 | T1-4HTS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869003 | T2-1HT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869004 | T2-2HT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869005 | T2-2HTS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869006 | T2-3HT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869007 | T2-3HTS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869008 | T2-4HT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869009 | T2-4HTS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869010 | T3-4HT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869011 | T3-4HTS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869012 | T4-1HB | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869013 | T4-1HS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869014 | T4-2HB | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869015 | T4-2HS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869016 | T4-3HB | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869017 | T4-3HS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869018 | T4-4HB | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869019 | T4-4HS | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869020 | BG-1LT | EPA 3010A | 710140 | EPA 6020B | 710161 |
| 92608869021 | BG-2HT | EPA 3010A | 710141 | EPA 6020B | 710163 |
| 92608869022 | DUP-1 | EPA 3010A | 710141 | EPA 6020B | 710163 |
| 92608869023 | DUP-2 | EPA 3010A | 710141 | EPA 6020B | 710163 |
| 92608869024 | DUP-3 | EPA 3010A | 710141 | EPA 6020B | 710163 |
| 92608869025 | FB-1 | EPA 3010A | 705475 | EPA 6020B | 705488 |
| 92608869026 | EB-1 | EPA 3010A | 705909 | EPA 6020B | 706043 |
| 92608869001 | T1-4HT | SM 2320B-2011 | 704567 | | |
| 92608869002 | T1-4HTS | SM 2320B-2011 | 704567 | | |
| 92608869003 | T2-1HT | SM 2320B-2011 | 704567 | | |
| 92608869004 | T2-2HT | SM 2320B-2011 | 704567 | | |
| 92608869005 | T2-2HTS | SM 2320B-2011 | 704567 | | |
| 92608869006 | T2-3HT | SM 2320B-2011 | 704567 | | |
| 92608869007 | T2-3HTS | SM 2320B-2011 | 704567 | | |
| 92608869008 | T2-4HT | SM 2320B-2011 | 704567 | | |
| 92608869009 | T2-4HTS | SM 2320B-2011 | 704567 | | |
| 92608869010 | T3-4HT | SM 2320B-2011 | 704567 | | |
| 92608869011 | T3-4HTS | SM 2320B-2011 | 704567 | | |
| 92608869012 | T4-1HB | SM 2320B-2011 | 704567 | | |
| 92608869013 | T4-1HS | SM 2320B-2011 | 704567 | | |
| 92608869014 | T4-2HB | SM 2320B-2011 | 704567 | | |
| 92608869015 | T4-2HS | SM 2320B-2011 | 704567 | | |
| 92608869016 | T4-3HB | SM 2320B-2011 | 704567 | | |
| 92608869017 | T4-3HS | SM 2320B-2011 | 704567 | | |
| 92608869018 | T4-4HB | SM 2320B-2011 | 704567 | | |
| 92608869019 | T4-4HS | SM 2320B-2011 | 704567 | | |
| 92608869020 | BG-1LT | SM 2320B-2011 | 704687 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report

Pace Project No.: 92608869

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92608869021 | BG-2HT | SM 2320B-2011 | 704687 | | |
| 92608869022 | DUP-1 | SM 2320B-2011 | 704687 | | |
| 92608869023 | DUP-2 | SM 2320B-2011 | 704687 | | |
| 92608869024 | DUP-3 | SM 2320B-2011 | 704687 | | |
| 92608869025 | FB-1 | SM 2320B-2011 | 704687 | | |
| 92608869026 | EB-1 | SM 2320B-2011 | 704687 | | |
| 92608869001 | T1-4HT | SM 2540C-2015 | 703674 | | |
| 92608869002 | T1-4HTS | SM 2540C-2015 | 703674 | | |
| 92608869003 | T2-1HT | SM 2540C-2015 | 703674 | | |
| 92608869004 | T2-2HT | SM 2540C-2015 | 703674 | | |
| 92608869005 | T2-2HTS | SM 2540C-2015 | 703821 | | |
| 92608869006 | T2-3HT | SM 2540C-2015 | 703821 | | |
| 92608869007 | T2-3HTS | SM 2540C-2015 | 703821 | | |
| 92608869008 | T2-4HT | SM 2540C-2015 | 703821 | | |
| 92608869009 | T2-4HTS | SM 2540C-2015 | 703821 | | |
| 92608869010 | T3-4HT | SM 2540C-2015 | 703821 | | |
| 92608869011 | T3-4HTS | SM 2540C-2015 | 703821 | | |
| 92608869012 | T4-1HB | SM 2540C-2015 | 703821 | | |
| 92608869013 | T4-1HS | SM 2540C-2015 | 703821 | | |
| 92608869014 | T4-2HB | SM 2540C-2015 | 703821 | | |
| 92608869015 | T4-2HS | SM 2540C-2015 | 703821 | | |
| 92608869016 | T4-3HB | SM 2540C-2015 | 703821 | | |
| 92608869017 | T4-3HS | SM 2540C-2015 | 703821 | | |
| 92608869018 | T4-4HB | SM 2540C-2015 | 703821 | | |
| 92608869019 | T4-4HS | SM 2540C-2015 | 703821 | | |
| 92608869020 | BG-1LT | SM 2540C-2015 | 703871 | | |
| 92608869021 | BG-2HT | SM 2540C-2015 | 703821 | | |
| 92608869022 | DUP-1 | SM 2540C-2015 | 703821 | | |
| 92608869023 | DUP-2 | SM 2540C-2015 | 703821 | | |
| 92608869024 | DUP-3 | SM 2540C-2015 | 703821 | | |
| 92608869025 | FB-1 | SM 2540C-2015 | 703871 | | |
| 92608869026 | EB-1 | SM 2540C-2015 | 703871 | | |
| 92608869001 | T1-4HT | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869002 | T1-4HTS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869003 | T2-1HT | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869004 | T2-2HT | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869005 | T2-2HTS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869006 | T2-3HT | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869007 | T2-3HTS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869008 | T2-4HT | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869009 | T2-4HTS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869010 | T3-4HT | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869011 | T3-4HTS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869012 | T4-1HB | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869013 | T4-1HS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869014 | T4-2HB | EPA 300.0 Rev 2.1 1993 | 703913 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS SURFACE WATER SAMPLING-Revised Report
Pace Project No.: 92608869

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92608869015 | T4-2HS | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869016 | T4-3HB | EPA 300.0 Rev 2.1 1993 | 703913 | | |
| 92608869017 | T4-3HS | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869018 | T4-4HB | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869019 | T4-4HS | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869020 | BG-1LT | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869021 | BG-2HT | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869022 | DUP-1 | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869023 | DUP-2 | EPA 300.0 Rev 2.1 1993 | 704144 | | |
| 92608869024 | DUP-3 | EPA 300.0 Rev 2.1 1993 | 704146 | | |
| 92608869025 | FB-1 | EPA 300.0 Rev 2.1 1993 | 704146 | | |
| 92608869026 | EB-1 | EPA 300.0 Rev 2.1 1993 | 704146 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92608869



92608869

Date/Initials Person Examining Contents: 6-7-22 AR

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 937071

Type of Ice: Wet Blue None

Cooler Temp: 12/3.1/2.2/1.9 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1/2.2/1.9/1.2

USDA Regulated Soil (N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition
Upon Receipt

Effective Date: 05/12/2022

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

Exceptions: VOA, Coliform, TDC, Oil and Grease, DRO/8025 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92608869

PM: NMG

Due Date: 06/16/22

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic 2N Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFLU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92608869

PM: NMG

Due Date: 06/16/22

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SPST-125 mL Sterile Plastic (N/A - lab) | SPZT-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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



DC#_ Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92608869

PM: NMG

Due Date: 06/16/22

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BPM5-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (p>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|---|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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



Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pace-standard-terms.pdf>

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: Georgia Power
Address: 1003 Weatherstone Parkway
Suite 320 Woodstock, GA 30788
Phone: (678)548-9415 Fax: [blank]
Email: kevin.stephenson@paceclabs.com
Requested Due Date: [blank]

Section B

Required Project Information:

Report To: Kevin Stephenson
Copy To: Laura Mitchell
Purchase Order #: [blank]
Project Name: Mckanus Surface Water Sampling
Project #: [blank]

Section C

Invoice Information:

Company Name: Pace Project Manager
Attention: nicole.doleo@paceclabs.com
Address: [blank]
Pace Project Manager: nicole.doleo@paceclabs.com
Pace Profile #: 10768-14

| ITEM # | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | Analyses Test | | | | Residual Chlorine (Y/N) |
|--------|--|-----------------------------|------------|----------|---------------------------|-----------------|---------------|-------|------|-----|------|---------|---------------|-------|-----------|------------|-------------------------|
| | | | START DATE | END DATE | | | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | 6010/6020 | Cl, F, SO4 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|----|--|---------|------|--|---|---|--|--|--|--|--|--|--|--|---|---|---|---|--|--|--|
| 1-4HT | WT | | 6/17/22 | 1806 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-4HTS | WT | | 6/17/22 | 1610 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-4HT | WT | | 6/17/22 | 1654 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-2HT | WT | | 6/17/22 | 1705 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-2HTS | WT | | 6/17/22 | 1700 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-3HT | WT | | 6/17/22 | 1728 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-3HTS | WT | | 6/17/22 | 1724 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-2HT | WT | | 6/17/22 | 1745 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-2HTS | WT | | 6/17/22 | 1746 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-4HT | WT | | 6/17/22 | 1757 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-4HTS | WT | | 6/17/22 | 1753 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |
| 1-4HT | WT | | 6/17/22 | 1454 | | 4 | 3 | | | | | | | | | X | X | X | X | | | |

Co. Mg, K, Na, As, B, Li

ANALYSIS REQUIRED: []

DATE: 6-22-22

TIME: 1100

LABORATORY: []

GA

SAMPLER AND SIGNATURES

PRINT Name of SAMPLER: Meredith Duncan, Will Leaker, Trent Godwin
SIGNATURE of SAMPLER: *Meredith Duncan*
DATE Signed: 6/8/22

| TEMP in C | Received on Ice (Y/N) | Cooler Sealed (Y/N) | Cooler Intact (Y/N) | Samples Intact (Y/N) |
|-----------|-----------------------|---------------------|---------------------|----------------------|
| 3.1 | Y | Y | Y | Y |
| 2.2 | Y | Y | Y | Y |
| 1.9 | Y | Y | Y | Y |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

| | | | |
|----------------------------|---------------------------|-------------------------------------|-----------------------|
| Section A | | Required Client Information: | |
| Company: | Georgia Power | Report To: | Kevin Stephenson |
| Address: | 1003 Weatherstone Parkway | Company Name: | Georgia Power |
| Site: | 320 Woodstock, GA 30188 | Address: | 10798-14 |
| Email: | kevin.stephenson@ge.com | Pass Project Manager: | nicole.d@pacelabs.com |
| Phone: | (678)568-9415 | Pace Profile #: | 10798-14 |
| Requested Due Date: | | Pace Project Manager: | nicole.d@pacelabs.com |

| | | | |
|--------------------------|---------------------------------|--------------------------------------|--|
| Section B | | Required Project Information: | |
| Project Name: | Medlanus Surface Water Sampling | Project #: | |
| Purchase Order #: | | GA: | |

| ITEM # | SAMPLE ID <small>One Character per box (A-Z, 0-9, -) Sample IDs must be unique</small> | MATRIX <small>Drinking Water Waste Water Product Soil/Solid Oil Wine Milk Other Trace</small> | CODE <small>DW WW P SL OL WP AR TS</small> | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | | | Analytical Tests | | | | Residual Chlorine (Y/N) | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) | | | | |
|--------|---|--|---|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|------|-------------|-------|------|-----|------|---------|----------|------------------|------------|------------|------------|-------------------------|-----------|-----------------------|-----------------------------|----------------------|-----|---|---|--|
| | | | | | | DATE | TIME | | | DATE | TIME | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | No2S2O3 | Methanol | Other | 6010/6020* | Cl, F, SO4 | Alkalinity | | | | | | TDS | | | |
| 13 | T4-1HS | | | WT | G | 6/7/22 | 1445 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.03 | Y | Y | Y | |
| 14 | T4-2HB | | | WT | G | 6/7/22 | 1516 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.38 | Y | Y | Y | |
| 15 | T4-2HS | | | WT | G | 6/7/22 | 1509 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.49 | Y | Y | Y | |
| 16 | T4-4HB | | | WT | G | 6/7/22 | 1538 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.33 | Y | Y | Y | |
| 17 | T4-3HS | | | WT | G | 6/7/22 | 1530 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.51 | Y | Y | Y | |
| 18 | T4-4HB | | | WT | G | 6/7/22 | 1557 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.49 | Y | Y | Y | |
| 19 | T4-4HS | | | WT | G | 6/7/22 | 1552 | | 4 | 3 | 1 | | | | | | | | X | X | X | X | | | | | 7.53 | Y | Y | Y | |
| 20 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | 6.58 | Y | Y | Y | |
| 21 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 22 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 23 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 24 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 25 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 26 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 27 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |
| 28 | T4-4HS | | | WT | G | | | | | | | | | | | | | | X | X | X | X | | | | | | | | | |

| | |
|---|--|
| ADDITIONAL COMMENTS: Ca, Mg, K, Na, AS, B, LI | REMARKS/OPERATOR/INITIALS: A. Rudorff / PACE/AVL |
|---|--|

| | |
|---|-------------------------------|
| PRINT Name of SAMPLER: Meredith Duncan, Will Laaker, Trent Godwin | DATE Signed: 6/8/22 |
| SIGNATURE of SAMPLER: <i>(Signatures)</i> | |

Page

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/subs/pst-standard-terms.pdf>.

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Required Client Information:

Company: Georgia Power
 Address: 1003 Weatherstone Parkway
 Suite 320 Woodstock, GA 30188
 Email: kevin.stephenson@gepacelabs.com
 Phone: (678) 549-5415 Fax: [blank]
 Requested Due Date: [blank]

Section B Required Project Information:

Report To: Kevin Stephenson
 Copy To: LAURA MITCHELL
 Purchase Order #: [blank]
 Project Name: Madgenus Surface Water Sampling
 Project #: [blank]

Section C Invoice Information:

Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 Pace Project Manager: Nicole.d'oreo@pacelabs.com
 Pace Profile #: 10768-14

Request Number: [blank] Requested (Y/N) [blank]
 State Location: GA

Page : 3 OF 3

| ITEM # | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | Preservatives | | | | | | | Analytes Test | | | | Residual Chlorine (Y/N) | | | |
|--------|---------------------------------------|-----------------------------|-------------------|-----------------|---------------------------|---------------|--------------|--------------|-----|------|---------|----------|---------------|------------|------------|------------|-------------------------|-----|--|------|
| | | | START DATE | END DATE | | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | 6010/6020* | Cl, F, SO4 | Alkalinity | | TDS | | |
| 20 | BG-DHT | WT | 6/7/22 | 1620 | | 4 | 3 | 1 | | | | | | | X | X | X | X | | 7.51 |
| 21 | DUP-1 | WT | 6/7/22 | --- | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 22 | DUP-2 | WT | 6/7/22 | --- | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 23 | DUP-3 | WT | 6/7/22 | --- | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 24 | DUP-4 | WT | 6/7/22 | --- | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 30 | FB-1 | WT | 6/8/22 | 0855 | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 31 | EB-1 | WT | 6/8/22 | 0900 | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 32 | | WT | 6/8/22 | 0900 | | 4 | 3 | 1 | | | | | | | X | X | X | X | | |
| 33 | | WT | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 34 | | WT | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 35 | | WT | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 36 | | WT | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

SAMPLER NAME AND SIGNATURE: [blank]

PRINT Name of SAMPLER: Meredith Duncan, Will Laker, Trent Godwin

SIGNATURE OF SAMPLER: *Meredith Duncan*

DATE Signed: 6/8/22

* Co, Ms, K, No, As, B, U

June 27, 2022

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Minneapolis

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joe Booth, Resolute Environmental & Water Resources
Trent Godwin, Resolute Environmental & Water Resources
Kristen Jurinko
Laura Midkiff, Georgia Power
Ms. Lauren Petty, Southern Company
Kevin Stephenson, Resolute Environmental & Water Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water Resources Consulting, LLC



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064

Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MCMANUS SURFACE WATER SAMPLING

Pace Project No.: 92608877

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92608877001 | BG-1HT | Water | 06/07/22 16:40 | 06/09/22 11:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------------|-----------|-------------------|------------|
| 92608877001 | BG-1HT | EPA 6010C | DM | 4 | PASI-M |
| | | EPA 6020B | CRW, DBB1 | 3 | PASI-A |
| | | SM 2320B-2011 | SMS | 3 | PASI-A |
| | | SM 2540C-2015 | MAB2 | 1 | PASI-A |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 | PASI-A |

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MCMANUS SURFACE WATER SAMPLING

Pace Project No.: 92608877

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|---------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92608877001 | BG-1HT | | | | | |
| | Performed by | CUSTOME | | | 06/09/22 15:12 | |
| | | R | | | | |
| | pH | 7.51 | Std. Units | | 06/09/22 15:12 | |
| EPA 6010C | Calcium | 272000 | ug/L | 10000 | 06/24/22 15:45 | |
| EPA 6010C | Magnesium | 849000 | ug/L | 10000 | 06/24/22 15:45 | |
| EPA 6010C | Potassium | 309000 | ug/L | 50000 | 06/24/22 15:45 | |
| EPA 6010C | Sodium | 6380000 | ug/L | 40000 | 06/24/22 16:07 | |
| EPA 6020B | Arsenic | 0.0023J | mg/L | 0.020 | 06/14/22 22:31 | |
| EPA 6020B | Boron | 3.7J | mg/L | 5.0 | 06/15/22 18:14 | |
| EPA 6020B | Lithium | 0.11 | mg/L | 0.050 | 06/14/22 22:31 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 111 | mg/L | 5.0 | 06/16/22 11:36 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 111 | mg/L | 5.0 | 06/16/22 11:36 | |
| SM 2540C-2015 | Total Dissolved Solids | 25700 | mg/L | 2500 | 06/11/22 11:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 9280 | mg/L | 100 | 06/14/22 09:00 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1230 | mg/L | 100 | 06/14/22 09:00 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MCMANUS SURFACE WATER SAMPLING

Pace Project No.: 92608877

| Sample: BG-1HT | | Lab ID: 92608877001 | | Collected: 06/07/22 16:40 | Received: 06/09/22 11:00 | Matrix: Water | | | |
|--|-----------------|----------------------------|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 06/09/22 15:12 | | |
| pH | 7.51 | Std. Units | | | 1 | | 06/09/22 15:12 | | |
| 6010C MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010C Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Calcium | 272000 | ug/L | 10000 | 462 | 1 | 06/23/22 05:41 | 06/24/22 15:45 | 7440-70-2 | |
| Magnesium | 849000 | ug/L | 10000 | 157 | 1 | 06/23/22 05:41 | 06/24/22 15:45 | 7439-95-4 | |
| Potassium | 309000 | ug/L | 50000 | 1730 | 1 | 06/23/22 05:41 | 06/24/22 15:45 | 7440-09-7 | |
| Sodium | 6380000 | ug/L | 40000 | 2630 | 2 | 06/23/22 05:41 | 06/24/22 16:07 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Arsenic | 0.0023J | mg/L | 0.020 | 0.0017 | 1 | 06/14/22 02:10 | 06/14/22 22:31 | 7440-38-2 | |
| Boron | 3.7J | mg/L | 5.0 | 0.85 | 5 | 06/14/22 02:10 | 06/15/22 18:14 | 7440-42-8 | |
| Lithium | 0.11 | mg/L | 0.050 | 0.010 | 1 | 06/14/22 02:10 | 06/14/22 22:31 | 7439-93-2 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 111 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:36 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:36 | | |
| Alkalinity, Total as CaCO3 | 111 | mg/L | 5.0 | 5.0 | 1 | | 06/16/22 11:36 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 25700 | mg/L | 2500 | 2500 | 1 | | 06/11/22 11:43 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 9280 | mg/L | 100 | 60.0 | 100 | | 06/14/22 09:00 | 16887-00-6 | |
| Fluoride | ND | mg/L | 10.0 | 5.0 | 100 | | 06/14/22 09:00 | 16984-48-8 | D3 |
| Sulfate | 1230 | mg/L | 100 | 50.0 | 100 | | 06/14/22 09:00 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

| | |
|----------------------------|--|
| QC Batch: 823416 | Analysis Method: EPA 6010C |
| QC Batch Method: EPA 3010A | Analysis Description: 6010C Water |
| | Laboratory: Pace Analytical Services - Minneapolis |

Associated Lab Samples: 92608877001

METHOD BLANK: 4362954 Matrix: Water
Associated Lab Samples: 92608877001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | ug/L | ND | 500 | 23.1 | 06/24/22 15:22 | |
| Magnesium | ug/L | ND | 500 | 7.8 | 06/24/22 15:22 | |
| Potassium | ug/L | ND | 2500 | 86.7 | 06/24/22 15:22 | |
| Sodium | ug/L | ND | 1000 | 65.7 | 06/24/22 15:22 | |

LABORATORY CONTROL SAMPLE: 4362955

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | ug/L | 20000 | 19300 | 97 | 80-120 | |
| Magnesium | ug/L | 20000 | 19700 | 98 | 80-120 | |
| Potassium | ug/L | 20000 | 19400 | 97 | 80-120 | |
| Sodium | ug/L | 20000 | 19200 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4362956 4362957

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|---------|----------|-----------|--------------|--------|---------|-------|
| | | 92608869021 Result | Spike Conc. | Spike Conc. | Result | | | | | | |
| Calcium | ug/L | 284000 | 400000 | 400000 | 649000 | 682000 | 91 | 99 | 75-125 | 5 | 20 |
| Magnesium | ug/L | 890000 | 400000 | 400000 | 1240000 | 1320000 | 88 | 107 | 75-125 | 6 | 20 |
| Potassium | ug/L | 330000 | 400000 | 400000 | 743000 | 783000 | 103 | 113 | 75-125 | 5 | 20 |
| Sodium | ug/L | 6990000 | 400000 | 400000 | 7040000 | 7460000 | 14 | 117 | 75-125 | 6 | 20 P6 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

QC Batch: 703817 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608877001

METHOD BLANK: 3673154 Matrix: Water
Associated Lab Samples: 92608877001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------|----------------|------------|
| Arsenic | mg/L | ND | 0.0010 | 0.000087 | 06/14/22 12:01 | |
| Boron | mg/L | ND | 0.050 | 0.0085 | 06/14/22 12:01 | |
| Lithium | mg/L | ND | 0.0025 | 0.00050 | 06/14/22 12:01 | |

LABORATORY CONTROL SAMPLE: 3673155

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.05 | 0.048 | 96 | 80-120 | |
| Boron | mg/L | 0.05 | 0.047J | 93 | 80-120 | |
| Lithium | mg/L | 0.05 | 0.048 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673156 3673157

| Parameter | Units | 92608443007 | | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|--------|-----|----|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | | |
| Arsenic | mg/L | 18.7 ug/L | 0.05 | 0.05 | 0.068 | 0.068 | 99 | 99 | 75-125 | 0 | 20 | | | | |
| Boron | mg/L | 1480 ug/L | 0.05 | 0.05 | 1.5 | 1.6 | 118 | 192 | 75-125 | 2 | 20 | M1 | | | |
| Lithium | mg/L | 130 ug/L | 0.05 | 0.05 | 0.18 | 0.18 | 92 | 98 | 75-125 | 2 | 20 | | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

QC Batch: 704687 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608877001

METHOD BLANK: 3677119 Matrix: Water
Associated Lab Samples: 92608877001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 06/16/22 10:22 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 06/16/22 10:22 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 06/16/22 10:22 | |

LABORATORY CONTROL SAMPLE: 3677120

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.2 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3677121

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.4 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677122 3677123

| Parameter | Units | 3677122 | | 3677123 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92608869021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Alkalinity, Total as CaCO3 | mg/L | 118 | 50 | 50 | 168 | 166 | 101 | 98 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3677124 3677125

| Parameter | Units | 3677124 | | 3677125 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92609055032 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Alkalinity, Total as CaCO3 | mg/L | 58.7 | 50 | 50 | 115 | 115 | 112 | 112 | 80-120 | 0 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING

Pace Project No.: 92608877

| | |
|--------------------------------|--|
| QC Batch: 703821 | Analysis Method: SM 2540C-2015 |
| QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92608877001

METHOD BLANK: 3673168 Matrix: Water

Associated Lab Samples: 92608877001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 06/11/22 11:40 | |

LABORATORY CONTROL SAMPLE: 3673169

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 258 | 103 | 90-110 | |

SAMPLE DUPLICATE: 3673170

| Parameter | Units | 92608869005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 18400 | 19700 | 7 | 25 | |

SAMPLE DUPLICATE: 3673171

| Parameter | Units | 92608869015 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 21400 | 23600 | 10 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

QC Batch: 704146 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92608877001

METHOD BLANK: 3674655 Matrix: Water
Associated Lab Samples: 92608877001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 06/14/22 07:09 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 06/14/22 07:09 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 06/14/22 07:09 | |

LABORATORY CONTROL SAMPLE: 3674656

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 54.1 | 108 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 108 | 90-110 | |
| Sulfate | mg/L | 50 | 52.5 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674657 3674658

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92608869024 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 7260 | 50 | 50 | 7230 | 7340 | -53 | 157 | 90-110 | 1 | 10 | M1 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 5.7J | 5.5J | 32 | 24 | 90-110 | | 10 | D3,M1 | |
| Sulfate | mg/L | 950 | 50 | 50 | 977 | 990 | 55 | 80 | 90-110 | 1 | 10 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674766 3674767

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92608137004 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 13.8 | 50 | 50 | 65.3 | 65.6 | 103 | 103 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 0.15 | 2.5 | 2.5 | 2.6 | 2.7 | 100 | 101 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 11.6 | 50 | 50 | 62.5 | 63.0 | 102 | 103 | 90-110 | 1 | 10 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MCMANUS SURFACE WATER SAMPLING

Pace Project No.: 92608877

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCMANUS SURFACE WATER SAMPLING
Pace Project No.: 92608877

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92608877001 | BG-1HT | | | | |
| 92608877001 | BG-1HT | EPA 3010A | 823416 | EPA 6010C | 823923 |
| 92608877001 | BG-1HT | EPA 3010A | 703817 | EPA 6020B | 704214 |
| 92608877001 | BG-1HT | SM 2320B-2011 | 704687 | | |
| 92608877001 | BG-1HT | SM 2540C-2015 | 703821 | | |
| 92608877001 | BG-1HT | EPA 300.0 Rev 2.1 1993 | 704146 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92608877



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 6-7-22 AR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 937071

Type of Ice: Wet Blue None

Biological Tissue Frozen?

Yes No N/A

Cooler Temp: 12/3.1/2.2/1.9 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun.

Cooler Temp Corrected (°C): 3.1/2.2/1.9/1.2

USDA Regulated Soil (N/A, water sample)

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

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition
 Upon Receipt
 Effective Date: 05/12/2022

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92608877

PM: NMG

Due Date: 06/23/22

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGfU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit) VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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

ANALYTICAL REPORT

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

Laboratory Job ID: 680-221593-1

Client Project/Site: Plant McManus Surface Water
Revision: 1

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
10/31/2022 12:40:52 PM

David Fuller, Project Manager
(770)344-8986
David.Fuller@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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

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

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Qualifiers

HPLC/IC

| 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. |
| F1 | MS and/or MSD recovery exceeds control limits. |

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| ^2 | Calibration Blank (ICB and/or CCB) is outside acceptance limits. |
| ^3+ | Reporting Limit Check Standard is outside acceptance limits, high biased |
| 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. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 680-221593-1 | T1-4HT | Water | 09/22/22 09:49 | 09/23/22 10:40 |
| 680-221593-2 | T1-4HTS | Water | 09/22/22 09:43 | 09/23/22 10:40 |
| 680-221593-3 | T2-1HT | Water | 09/22/22 08:40 | 09/23/22 10:40 |
| 680-221593-4 | T2-2HT | Water | 09/22/22 08:50 | 09/23/22 10:40 |
| 680-221593-5 | T2-2HTS | Water | 09/22/22 08:44 | 09/23/22 10:40 |
| 680-221593-6 | T2-3HT | Water | 09/22/22 09:05 | 09/23/22 10:40 |
| 680-221593-7 | T2-3HTS | Water | 09/22/22 09:00 | 09/23/22 10:40 |
| 680-221593-8 | T2-4HT | Water | 09/22/22 09:35 | 09/23/22 10:40 |
| 680-221593-9 | T2-4HTS | Water | 09/22/22 09:30 | 09/23/22 10:40 |
| 680-221593-10 | T3-4HT | Water | 09/22/22 09:22 | 09/23/22 10:40 |
| 680-221593-11 | T3-4HTS | Water | 09/22/22 09:17 | 09/23/22 10:40 |
| 680-221593-12 | T4-1HB | Water | 09/22/22 07:20 | 09/23/22 10:40 |
| 680-221593-13 | T4-1HS | Water | 09/22/22 07:12 | 09/23/22 10:40 |
| 680-221593-14 | T4-2HB | Water | 09/22/22 07:36 | 09/23/22 10:40 |
| 680-221593-15 | T4-2HS | Water | 09/22/22 07:30 | 09/23/22 10:40 |
| 680-221593-16 | T4-3HB | Water | 09/22/22 07:50 | 09/23/22 10:40 |
| 680-221593-17 | T4-3HS | Water | 09/22/22 07:43 | 09/23/22 10:40 |
| 680-221593-18 | T4-4HB | Water | 09/22/22 08:08 | 09/23/22 10:40 |
| 680-221593-19 | T4-4HS | Water | 09/22/22 08:00 | 09/23/22 10:40 |
| 680-221593-20 | BG-2HT | Water | 09/22/22 08:23 | 09/23/22 10:40 |
| 680-221593-21 | DUP-1 | Water | 09/22/22 00:00 | 09/23/22 10:40 |
| 680-221593-22 | DUP-2 | Water | 09/22/22 00:00 | 09/23/22 10:40 |
| 680-221593-23 | FB-1 | Water | 09/22/22 10:30 | 09/23/22 10:40 |
| 680-221593-24 | EB-1 | Water | 09/22/22 10:25 | 09/23/22 10:40 |
| 680-221861-1 | T1-4LT | Water | 09/28/22 07:59 | 09/29/22 12:40 |
| 680-221861-2 | T2-4LT | Water | 09/28/22 08:07 | 09/29/22 12:40 |
| 680-221861-3 | T3-4LT | Water | 09/28/22 08:15 | 09/29/22 12:40 |
| 680-221861-4 | T4-4L | Water | 09/27/22 17:35 | 09/29/22 12:40 |
| 680-221861-5 | BG-1LT | Water | 09/28/22 07:49 | 09/29/22 12:40 |
| 680-221861-6 | DUP-3 | Water | 09/28/22 00:00 | 09/29/22 12:40 |
| 680-221861-7 | FB-2 | Water | 09/28/22 08:50 | 09/29/22 12:40 |
| 680-221861-8 | EB-2 | Water | 09/28/22 09:00 | 09/29/22 12:40 |



Case Narrative

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Job ID: 680-221593-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-221593-1

Revision 1

The report being provided is a revision of the original report sent on 10/25/2022. The report (revision 1) is being revised in order to report a lower dilution for Arsenic & Lithium.

Receipt

The samples were received on 9/23/2022 10:40 AM and 9/29/2022 12:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.2°C, 1.8°C, 2.3°C and 3.0°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-744417 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 6020B: All samples in this submittal were diluted to bring the concentration of target analytes within the calibration range and/or due to the abundance of non-target analytes. Elevated reporting limits (RLs) are provided.

Method 6020B: The method blank for preparation batch 400-594691 and analytical batch 400-594928 contained Sodium and Potassium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6020B: The CRI associated with batch 400-597203 recovered above the upper control limit for Potassium. The samples associated with this CRI had hits significantly above the CRI, and there is supporting CCV bracket passing above the CRI as well as a non-detection for the method blank and a passing LCS for the affected analytes; therefore, the data have been reported.

Method 6020B: The CRI associated with batch 400-597203 recovered above the upper control limit for Potassium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6020B: The method blank for preparation batch 400-594692 and analytical batch 400-594928 contained Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020B: The following samples were diluted because the initial analysis produced a significant negative result - the absolute value exceeded the reporting limit (RL): FB-1 (680-221593-23), EB-1 (680-221593-24), FB-2 (680-221861-7) and EB-2 (680-221861-8). Reporting limits (RLs) are elevated as a result.

Method 6020B: Due to sample matrix, there was a marginal failure in the internal standard limits associated with Lithium and Arsenic. As a proper dilution puts the reporting limit over the client requirements, initial results run at a greater concentration are now reported.

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

General Chemistry

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

Field Service / Mobile Lab

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
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T1-4HT

Lab Sample ID: 680-221593-1

Date Collected: 09/22/22 09:49

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 12000 | | 250 | 50 | mg/L | | | 10/08/22 02:59 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 10/08/22 02:59 | 250 |
| Sulfate | 1400 | | 250 | 100 | mg/L | | | 10/08/22 02:59 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0027 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:51 | 5 |
| Boron | 2.0 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:01 | 500 |
| Calcium | 240 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 20:51 | 5 |
| Lithium | 0.092 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:51 | 5 |
| Magnesium | 720 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 20:51 | 5 |
| Potassium | 240 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 20:51 | 5 |
| Sodium | 5700 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 20:51 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/27/22 22:26 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/27/22 22:26 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 22:26 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 18000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.98 | | | | SU | | | 09/22/22 09:49 | 1 |

Client Sample ID: T1-4HTS

Lab Sample ID: 680-221593-2

Date Collected: 09/22/22 09:43

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 18:18 | 40 |
| Sulfate | 1500 | | 40 | 16 | mg/L | | | 10/08/22 18:18 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 12000 | | 100 | 20 | mg/L | | | 10/10/22 17:11 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0023 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:54 | 5 |
| Boron | 2.1 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:04 | 500 |
| Calcium | 240 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 20:54 | 5 |
| Lithium | 0.092 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:54 | 5 |
| Magnesium | 720 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 20:54 | 5 |
| Potassium | 250 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 20:54 | 5 |
| Sodium | 5700 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 20:54 | 5 |

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T1-4HTS

Lab Sample ID: 680-221593-2

Date Collected: 09/22/22 09:43

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 17:05 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:05 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:05 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 17000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.03 | | | | SU | | | 09/22/22 09:43 | 1 |

Client Sample ID: T2-1HT

Lab Sample ID: 680-221593-3

Date Collected: 09/22/22 08:40

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 18:56 | 40 |
| Sulfate | 1500 | | 40 | 16 | mg/L | | | 10/08/22 18:56 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 15000 | | 100 | 20 | mg/L | | | 10/10/22 17:49 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0027 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 20:57 | 5 |
| Boron | 2.1 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:07 | 500 |
| Calcium | 230 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 20:57 | 5 |
| Lithium | 0.090 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 20:57 | 5 |
| Magnesium | 700 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 20:57 | 5 |
| Potassium | 240 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 20:57 | 5 |
| Sodium | 5500 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 20:57 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 18:03 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:03 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:03 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 17000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.28 | | | | SU | | | 09/22/22 08:40 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-2HT

Date Collected: 09/22/22 08:50

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-4

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 19:09 | 40 |
| Sulfate | 1500 | | 40 | 16 | mg/L | | | 10/08/22 19:09 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 15000 | | 100 | 20 | mg/L | | | 10/10/22 18:01 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0025 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:00 | 5 |
| Boron | 2.0 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:10 | 500 |
| Calcium | 250 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:00 | 5 |
| Lithium | 0.096 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:00 | 5 |
| Magnesium | 750 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:00 | 5 |
| Potassium | 250 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:00 | 5 |
| Sodium | 5900 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:00 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 17:43 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:43 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:43 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 16000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.99 | | | | SU | | | 09/22/22 08:50 | 1 |

Client Sample ID: T2-2HTS

Date Collected: 09/22/22 08:44

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-5

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 19:22 | 40 |
| Sulfate | 1500 | | 40 | 16 | mg/L | | | 10/08/22 19:22 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 12000 | | 100 | 20 | mg/L | | | 10/10/22 18:14 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0028 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:03 | 5 |
| Boron | 1.9 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:13 | 500 |
| Calcium | 230 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:03 | 5 |
| Lithium | 0.088 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:03 | 5 |
| Magnesium | 690 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:03 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-2HTS

Lab Sample ID: 680-221593-5

Date Collected: 09/22/22 08:44

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Potassium | 230 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:03 | 5 |
| Sodium | 5400 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:03 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 17:24 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:24 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:24 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 19000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.06 | | | | SU | | | 09/22/22 08:44 | 1 |

Client Sample ID: T2-3HT

Lab Sample ID: 680-221593-6

Date Collected: 09/22/22 09:05

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 19:34 | 40 |
| Sulfate | 1600 | | 40 | 16 | mg/L | | | 10/08/22 19:34 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 18:27 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0030 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:06 | 5 |
| Boron | 2.2 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:16 | 500 |
| Calcium | 250 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:06 | 5 |
| Lithium | 0.097 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:06 | 5 |
| Magnesium | 760 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:06 | 5 |
| Potassium | 250 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:06 | 5 |
| Sodium | 6000 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:06 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 18:13 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:13 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:13 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 20000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-3HT

Date Collected: 09/22/22 09:05

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-6

Matrix: Water

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.97 | | | | SU | | | 09/22/22 09:05 | 1 |

Client Sample ID: T2-3HTS

Date Collected: 09/22/22 09:00

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-7

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 19:47 | 40 |
| Sulfate | 1400 | | 40 | 16 | mg/L | | | 10/08/22 19:47 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 12000 | | 100 | 20 | mg/L | | | 10/10/22 18:39 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0024 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:34 | 5 |
| Boron | 1.9 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:20 | 500 |
| Calcium | 240 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:34 | 5 |
| Lithium | 0.087 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:34 | 5 |
| Magnesium | 710 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:34 | 5 |
| Potassium | 240 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:34 | 5 |
| Sodium | 5600 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:34 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 17:53 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:53 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:53 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 17000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.03 | | | | SU | | | 09/22/22 09:00 | 1 |

Client Sample ID: T2-4HT

Date Collected: 09/22/22 09:35

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-8

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 12000 | | 500 | 100 | mg/L | | | 10/11/22 12:03 | 500 |
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 20:00 | 40 |
| Sulfate | 1600 | | 40 | 16 | mg/L | | | 10/08/22 20:00 | 40 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0027 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:37 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-4HT

Lab Sample ID: 680-221593-8

Date Collected: 09/22/22 09:35

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 2.1 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:23 | 500 |
| Calcium | 240 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:37 | 5 |
| Lithium | 0.090 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:37 | 5 |
| Magnesium | 720 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:37 | 5 |
| Potassium | 240 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:37 | 5 |
| Sodium | 5700 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:37 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 17:33 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:33 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 17:33 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 17000 | | 2000 | 2000 | mg/L | | | 09/27/22 12:02 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.01 | | | | SU | | | 09/22/22 09:35 | 1 |

Client Sample ID: T2-4HTS

Lab Sample ID: 680-221593-9

Date Collected: 09/22/22 09:30

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 20:12 | 40 |
| Sulfate | 1500 | | 40 | 16 | mg/L | | | 10/08/22 20:12 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 11000 | | 100 | 20 | mg/L | | | 10/10/22 19:05 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0025 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:40 | 5 |
| Boron | 1.7 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:26 | 500 |
| Calcium | 240 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:40 | 5 |
| Lithium | 0.091 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:40 | 5 |
| Magnesium | 730 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:40 | 5 |
| Potassium | 250 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:40 | 5 |
| Sodium | 5700 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:40 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 18:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:23 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:23 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-4HTS

Lab Sample ID: 680-221593-9

Date Collected: 09/22/22 09:30

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 22000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.04 | | | | SU | | | 09/22/22 09:30 | 1 |

Client Sample ID: T3-4HT

Lab Sample ID: 680-221593-10

Date Collected: 09/22/22 09:22

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 20:25 | 40 |
| Sulfate | 1600 | | 40 | 16 | mg/L | | | 10/08/22 20:25 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 19:17 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0027 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 21:43 | 5 |
| Boron | 2.2 | J B | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/07/22 22:47 | 500 |
| Calcium | 240 | B | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 21:43 | 5 |
| Lithium | 0.091 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 21:43 | 5 |
| Magnesium | 750 | B | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 21:43 | 5 |
| Potassium | 250 | B ^2 | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 21:43 | 5 |
| Sodium | 5800 | B ^2 | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 21:43 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 09/28/22 18:43 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:43 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:43 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 22000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.98 | | | | SU | | | 09/22/22 09:22 | 1 |

Client Sample ID: T3-4HTS

Lab Sample ID: 680-221593-11

Date Collected: 09/22/22 09:17

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 20:38 | 40 |
| Sulfate | 1400 | | 40 | 16 | mg/L | | | 10/08/22 20:38 | 40 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T3-4HTS

Lab Sample ID: 680-221593-11

Date Collected: 09/22/22 09:17

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 11000 | | 100 | 20 | mg/L | | | 10/10/22 19:30 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0021 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |
| Boron | 2.1 | | 0.050 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |
| Calcium | 210 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |
| Lithium | 0.079 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |
| Magnesium | 620 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |
| Potassium | 210 | | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |
| Sodium | 4900 | | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 17:18 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 95 | | 5.0 | 2.2 | mg/L | | | 09/28/22 18:33 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 95 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:33 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 18:33 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 19000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.09 | | | | SU | | | 09/22/22 09:17 | 1 |

Client Sample ID: T4-1HB

Lab Sample ID: 680-221593-12

Date Collected: 09/22/22 07:20

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 21:28 | 40 |
| Sulfate | 1600 | | 40 | 16 | mg/L | | | 10/08/22 21:28 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 20:33 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0030 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 17:58 | 5 |
| Boron | 2.9 J | | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 14:27 | 500 |
| Calcium | 260 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 17:58 | 5 |
| Lithium | 0.099 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 17:58 | 5 |
| Magnesium | 770 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 17:58 | 5 |
| Potassium | 250 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 14:27 | 500 |
| Sodium | 6800 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 14:27 | 500 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-1HB

Lab Sample ID: 680-221593-12

Date Collected: 09/22/22 07:20

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 09/28/22 19:44 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 09/28/22 19:44 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 19:44 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 20000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.85 | | | | SU | | | 09/22/22 07:20 | 1 |

Client Sample ID: T4-1HS

Lab Sample ID: 680-221593-13

Date Collected: 09/22/22 07:12

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 22:06 | 40 |
| Sulfate | 1700 | | 40 | 16 | mg/L | | | 10/08/22 22:06 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 21:11 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0030 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:01 | 5 |
| Boron | 2.9 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 14:30 | 500 |
| Calcium | 250 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:01 | 5 |
| Lithium | 0.099 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:01 | 5 |
| Magnesium | 760 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:01 | 5 |
| Potassium | 250 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 14:30 | 500 |
| Sodium | 6700 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 14:30 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 09/28/22 19:34 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 09/28/22 19:34 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 19:34 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 21000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.59 | | | | SU | | | 09/22/22 07:12 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-2HB

Lab Sample ID: 680-221593-14

Date Collected: 09/22/22 07:36

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 22:19 | 40 |
| Sulfate | 1700 | | 40 | 16 | mg/L | | | 10/08/22 22:19 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 21:24 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0030 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:04 | 5 |
| Boron | 2.9 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 14:33 | 500 |
| Calcium | 260 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:04 | 5 |
| Lithium | 0.10 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:04 | 5 |
| Magnesium | 770 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:04 | 5 |
| Potassium | 240 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 14:33 | 500 |
| Sodium | 6700 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 14:33 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 09/28/22 19:14 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 09/28/22 19:14 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 19:14 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 24000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.98 | | | | SU | | | 09/22/22 07:36 | 1 |

Client Sample ID: T4-2HS

Lab Sample ID: 680-221593-15

Date Collected: 09/22/22 07:30

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 22:31 | 40 |
| Sulfate | 1700 | | 40 | 16 | mg/L | | | 10/08/22 22:31 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 21:36 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0023 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:07 | 5 |
| Boron | 2.9 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 14:36 | 500 |
| Calcium | 260 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:07 | 5 |
| Lithium | 0.10 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:07 | 5 |
| Magnesium | 770 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:07 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-2HS

Lab Sample ID: 680-221593-15

Date Collected: 09/22/22 07:30

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Potassium | 240 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 14:36 | 500 |
| Sodium | 6800 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 14:36 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 15:27 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:27 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:27 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 11000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.96 | | | | SU | | | 09/22/22 07:30 | 1 |

Client Sample ID: T4-3HB

Lab Sample ID: 680-221593-16

Date Collected: 09/22/22 07:50

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 22:44 | 40 |
| Sulfate | 1700 | | 40 | 16 | mg/L | | | 10/08/22 22:44 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 21:49 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0027 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:10 | 5 |
| Boron | 3.4 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 15:23 | 500 |
| Calcium | 260 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:10 | 5 |
| Lithium | 0.10 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:10 | 5 |
| Magnesium | 790 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:10 | 5 |
| Potassium | 250 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 15:23 | 500 |
| Sodium | 6800 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 15:23 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 15:07 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:07 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:07 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 21000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-3HB

Lab Sample ID: 680-221593-16

Date Collected: 09/22/22 07:50

Matrix: Water

Date Received: 09/23/22 10:40

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.97 | | | | SU | | | 09/22/22 07:50 | 1 |

Client Sample ID: T4-3HS

Lab Sample ID: 680-221593-17

Date Collected: 09/22/22 07:43

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 22:57 | 40 |
| Sulfate | 1600 | | 40 | 16 | mg/L | | | 10/08/22 22:57 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 22:02 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0030 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:13 | 5 |
| Boron | 2.7 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 15:42 | 500 |
| Calcium | 260 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:13 | 5 |
| Lithium | 0.10 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:13 | 5 |
| Magnesium | 780 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:13 | 5 |
| Potassium | 240 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 15:42 | 500 |
| Sodium | 6700 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 15:42 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 15:36 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:36 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:36 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 23000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.01 | | | | SU | | | 09/22/22 07:43 | 1 |

Client Sample ID: T4-4HB

Lab Sample ID: 680-221593-18

Date Collected: 09/22/22 08:08

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 23:09 | 40 |
| Sulfate | 1700 | | 40 | 16 | mg/L | | | 10/08/22 23:09 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 22:14 | 100 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-4HB

Lab Sample ID: 680-221593-18

Date Collected: 09/22/22 08:08

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0027 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:16 | 5 |
| Boron | 2.7 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 15:51 | 500 |
| Calcium | 270 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:16 | 5 |
| Lithium | 0.11 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:16 | 5 |
| Magnesium | 810 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:16 | 5 |
| Potassium | 230 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 15:51 | 500 |
| Sodium | 6700 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 15:51 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 15:57 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:57 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:57 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 23000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.06 | | | | SU | | | 09/22/22 08:08 | 1 |

Client Sample ID: T4-4HS

Lab Sample ID: 680-221593-19

Date Collected: 09/22/22 08:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 23:22 | 40 |
| Sulfate | 1700 | | 40 | 16 | mg/L | | | 10/08/22 23:22 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 100 | 20 | mg/L | | | 10/10/22 22:27 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0029 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:19 | 5 |
| Boron | 2.8 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 15:54 | 500 |
| Calcium | 260 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:19 | 5 |
| Lithium | 0.10 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:19 | 5 |
| Magnesium | 790 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:19 | 5 |
| Potassium | 250 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 15:54 | 500 |
| Sodium | 7000 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 15:54 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 15:17 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:17 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-4HS

Lab Sample ID: 680-221593-19

Date Collected: 09/22/22 08:00

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-----------|------|------|------|---|----------|----------------|---------|
| Carbonate Alkalinity as CaCO ₃ (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:17 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 21000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.03 | | | | SU | | | 09/22/22 08:00 | 1 |

Client Sample ID: BG-2HT

Lab Sample ID: 680-221593-20

Date Collected: 09/22/22 08:23

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 23:35 | 40 |
| Sulfate | 1900 | | 40 | 16 | mg/L | | | 10/08/22 23:35 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 14000 | | 100 | 20 | mg/L | | | 10/10/22 22:40 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0026 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 18:47 | 5 |
| Boron | 2.9 | J | 5.0 | 0.12 | mg/L | | 10/02/22 11:35 | 10/10/22 15:57 | 500 |
| Calcium | 280 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 18:47 | 5 |
| Lithium | 0.11 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 18:47 | 5 |
| Magnesium | 840 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 18:47 | 5 |
| Potassium | 250 | | 25 | 17 | mg/L | | 10/02/22 11:35 | 10/10/22 15:57 | 500 |
| Sodium | 7200 | | 25 | 16 | mg/L | | 10/02/22 11:35 | 10/10/22 15:57 | 500 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO ₃ to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 15:46 | 1 |
| Bicarbonate Alkalinity as CaCO ₃ (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:46 | 1 |
| Carbonate Alkalinity as CaCO ₃ (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 15:46 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 24000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.12 | | | | SU | | | 09/22/22 08:23 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: DUP-1

Lab Sample ID: 680-221593-21

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/08/22 23:47 | 40 |
| Sulfate | 1600 | | 40 | 16 | mg/L | | | 10/08/22 23:47 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 14000 | | 100 | 20 | mg/L | | | 10/10/22 22:52 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0026 | | 0.0013 | 0.0012 | mg/L | | 09/27/22 16:07 | 09/29/22 21:51 | 5 |
| Boron | 3.7 | J B | 5.0 | 0.12 | mg/L | | 09/27/22 16:07 | 10/10/22 16:10 | 500 |
| Calcium | 280 | | 0.25 | 0.13 | mg/L | | 09/27/22 16:07 | 09/29/22 21:51 | 5 |
| Lithium | 0.12 | ^3+ | 0.0050 | 0.0049 | mg/L | | 09/27/22 16:07 | 09/29/22 21:51 | 5 |
| Magnesium | 860 | | 0.13 | 0.041 | mg/L | | 09/27/22 16:07 | 09/29/22 21:51 | 5 |
| Potassium | 270 | B | 25 | 17 | mg/L | | 09/27/22 16:07 | 10/10/22 16:10 | 500 |
| Sodium | 6700 | | 0.25 | 0.16 | mg/L | | 09/27/22 16:07 | 09/29/22 21:51 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/04/22 16:07 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/04/22 16:07 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 16:07 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 21000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Client Sample ID: DUP-2

Lab Sample ID: 680-221593-22

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Fluoride | <1.6 | | 4.0 | 1.6 | mg/L | | | 10/09/22 01:54 | 40 |
| Sulfate | 1500 | | 40 | 16 | mg/L | | | 10/09/22 01:54 | 40 |

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 12000 | | 100 | 20 | mg/L | | | 10/10/22 23:30 | 100 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0028 | | 0.0013 | 0.0012 | mg/L | | 09/27/22 16:07 | 09/29/22 22:06 | 5 |
| Boron | 2.8 | J B | 5.0 | 0.12 | mg/L | | 09/27/22 16:07 | 10/10/22 16:13 | 500 |
| Calcium | 250 | | 0.25 | 0.13 | mg/L | | 09/27/22 16:07 | 09/29/22 22:06 | 5 |
| Lithium | 0.10 | ^3+ | 0.0050 | 0.0049 | mg/L | | 09/27/22 16:07 | 09/29/22 22:06 | 5 |
| Magnesium | 770 | | 0.13 | 0.041 | mg/L | | 09/27/22 16:07 | 09/29/22 22:06 | 5 |
| Potassium | 230 | B | 25 | 17 | mg/L | | 09/27/22 16:07 | 10/10/22 16:13 | 500 |
| Sodium | 5900 | | 0.25 | 0.16 | mg/L | | 09/27/22 16:07 | 09/29/22 22:06 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: DUP-2

Lab Sample ID: 680-221593-22

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 100 | | 5.0 | 2.2 | mg/L | | | 10/04/22 16:16 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 100 | | 5.0 | 5.0 | mg/L | | | 10/04/22 16:16 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 16:16 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 22000 | | 2000 | 2000 | mg/L | | | 09/28/22 12:20 | 1 |

Client Sample ID: FB-1

Lab Sample ID: 680-221593-23

Date Collected: 09/22/22 10:30

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/09/22 01:16 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/09/22 01:16 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/09/22 01:16 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 09/27/22 16:07 | 09/29/22 22:09 | 5 |
| Boron | 0.021 | J B | 0.50 | 0.012 | mg/L | | 09/27/22 16:07 | 10/10/22 16:16 | 50 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 09/27/22 16:07 | 09/29/22 22:09 | 5 |
| Lithium | <0.0049 | ^3+ | 0.0050 | 0.0049 | mg/L | | 09/27/22 16:07 | 09/29/22 22:09 | 5 |
| Magnesium | 0.057 | J | 0.13 | 0.041 | mg/L | | 09/27/22 16:07 | 09/29/22 22:09 | 5 |
| Potassium | 2.0 | J B | 2.5 | 1.7 | mg/L | | 09/27/22 16:07 | 10/10/22 16:16 | 50 |
| Sodium | 1.2 | | 0.25 | 0.16 | mg/L | | 09/27/22 16:07 | 09/29/22 22:09 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 10/04/22 14:45 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 14:45 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 14:45 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/28/22 12:20 | 1 |

Client Sample ID: EB-1

Lab Sample ID: 680-221593-24

Date Collected: 09/22/22 10:25

Matrix: Water

Date Received: 09/23/22 10:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/09/22 02:07 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/09/22 02:07 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/09/22 02:07 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 09/27/22 16:07 | 09/29/22 22:37 | 5 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: EB-1

Lab Sample ID: 680-221593-24

Date Collected: 09/22/22 10:25

Matrix: Water

Date Received: 09/23/22 10:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | <0.012 | | 0.50 | 0.012 | mg/L | | 09/27/22 16:07 | 10/10/22 16:34 | 50 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 09/27/22 16:07 | 09/29/22 22:37 | 5 |
| Lithium | <0.0049 | ^3+ | 0.0050 | 0.0049 | mg/L | | 09/27/22 16:07 | 09/29/22 22:37 | 5 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 09/27/22 16:07 | 09/29/22 22:37 | 5 |
| Potassium | 3.3 | B | 2.5 | 1.7 | mg/L | | 09/27/22 16:07 | 10/10/22 16:34 | 50 |
| Sodium | 0.36 | | 0.25 | 0.16 | mg/L | | 09/27/22 16:07 | 09/29/22 22:37 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 10/04/22 14:56 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 14:56 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 14:56 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/28/22 12:20 | 1 |

Client Sample ID: T1-4LT

Lab Sample ID: 680-221861-1

Date Collected: 09/28/22 07:59

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 200 | 40 | mg/L | | | 10/14/22 15:38 | 200 |
| Fluoride | <8.0 | | 20 | 8.0 | mg/L | | | 10/14/22 15:38 | 200 |
| Sulfate | 1500 | | 200 | 80 | mg/L | | | 10/14/22 15:38 | 200 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0060 | | 0.0063 | 0.0060 | mg/L | | 10/15/22 12:10 | 10/21/22 01:19 | 25 |
| Boron | 2.5 | | 0.25 | 0.0059 | mg/L | | 10/15/22 12:10 | 10/21/22 01:19 | 25 |
| Calcium | 260 | | 1.3 | 0.63 | mg/L | | 10/15/22 12:10 | 10/21/22 01:19 | 25 |
| Lithium | 0.10 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:19 | 25 |
| Magnesium | 770 | | 0.63 | 0.21 | mg/L | | 10/15/22 12:10 | 10/21/22 01:19 | 25 |
| Potassium | 190 | ^3+ | 13 | 8.5 | mg/L | | 10/15/22 12:10 | 10/24/22 15:45 | 250 |
| Sodium | 6100 | | 13 | 8.0 | mg/L | | 10/15/22 12:10 | 10/21/22 23:24 | 250 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/06/22 22:07 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:07 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:07 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 20000 | | 2000 | 2000 | mg/L | | | 09/29/22 11:31 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.69 | | | | SU | | | 09/28/22 07:59 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-4LT

Lab Sample ID: 680-221861-2

Date Collected: 09/28/22 08:07

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 14000 | | 200 | 40 | mg/L | | | 10/14/22 15:50 | 200 |
| Fluoride | <8.0 | | 20 | 8.0 | mg/L | | | 10/14/22 15:50 | 200 |
| Sulfate | 1700 | | 200 | 80 | mg/L | | | 10/14/22 15:50 | 200 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0060 | | 0.0063 | 0.0060 | mg/L | | 10/15/22 12:10 | 10/21/22 01:22 | 25 |
| Boron | 2.5 | | 0.25 | 0.0059 | mg/L | | 10/15/22 12:10 | 10/21/22 01:22 | 25 |
| Calcium | 260 | | 1.3 | 0.63 | mg/L | | 10/15/22 12:10 | 10/21/22 01:22 | 25 |
| Lithium | 0.10 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:22 | 25 |
| Magnesium | 760 | | 0.63 | 0.21 | mg/L | | 10/15/22 12:10 | 10/21/22 01:22 | 25 |
| Potassium | 190 | ^3+ | 13 | 8.5 | mg/L | | 10/15/22 12:10 | 10/24/22 15:48 | 250 |
| Sodium | 5900 | | 13 | 8.0 | mg/L | | 10/15/22 12:10 | 10/21/22 23:59 | 250 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/06/22 22:27 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:27 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:27 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 19000 | | 2000 | 2000 | mg/L | | | 09/29/22 11:31 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.06 | | | | SU | | | 09/28/22 08:07 | 1 |

Client Sample ID: T3-4LT

Lab Sample ID: 680-221861-3

Date Collected: 09/28/22 08:15

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 14000 | | 200 | 40 | mg/L | | | 10/14/22 10:34 | 200 |
| Fluoride | <8.0 | | 20 | 8.0 | mg/L | | | 10/14/22 10:34 | 200 |
| Sulfate | 1600 | | 200 | 80 | mg/L | | | 10/14/22 10:34 | 200 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0060 | | 0.0063 | 0.0060 | mg/L | | 10/15/22 12:10 | 10/21/22 01:25 | 25 |
| Boron | 2.7 | | 0.25 | 0.0059 | mg/L | | 10/15/22 12:10 | 10/21/22 01:25 | 25 |
| Calcium | 260 | | 1.3 | 0.63 | mg/L | | 10/15/22 12:10 | 10/21/22 01:25 | 25 |
| Lithium | 0.10 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:25 | 25 |
| Magnesium | 780 | | 0.63 | 0.21 | mg/L | | 10/15/22 12:10 | 10/21/22 01:25 | 25 |
| Potassium | 200 | ^3+ | 13 | 8.5 | mg/L | | 10/15/22 12:10 | 10/24/22 16:17 | 250 |
| Sodium | 6100 | | 13 | 8.0 | mg/L | | 10/15/22 12:10 | 10/22/22 00:02 | 250 |

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T3-4LT

Lab Sample ID: 680-221861-3

Date Collected: 09/28/22 08:15

Matrix: Water

Date Received: 09/29/22 12:40

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/06/22 22:17 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:17 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:17 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 17000 | | 2000 | 2000 | mg/L | | | 09/29/22 11:31 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.16 | | | | SU | | | 09/28/22 08:15 | 1 |

Client Sample ID: T4-4L

Lab Sample ID: 680-221861-4

Date Collected: 09/27/22 17:35

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 200 | 40 | mg/L | | | 10/14/22 10:47 | 200 |
| Fluoride | <8.0 | | 20 | 8.0 | mg/L | | | 10/14/22 10:47 | 200 |
| Sulfate | 1500 | | 200 | 80 | mg/L | | | 10/14/22 10:47 | 200 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0060 | | 0.0063 | 0.0060 | mg/L | | 10/15/22 12:10 | 10/21/22 01:28 | 25 |
| Boron | 2.6 | | 0.25 | 0.0059 | mg/L | | 10/15/22 12:10 | 10/21/22 01:28 | 25 |
| Calcium | 260 | | 1.3 | 0.63 | mg/L | | 10/15/22 12:10 | 10/21/22 01:28 | 25 |
| Lithium | 0.10 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:28 | 25 |
| Magnesium | 760 | | 0.63 | 0.21 | mg/L | | 10/15/22 12:10 | 10/21/22 01:28 | 25 |
| Potassium | 190 | ^3+ | 13 | 8.5 | mg/L | | 10/15/22 12:10 | 10/24/22 16:20 | 250 |
| Sodium | 5900 | | 13 | 8.0 | mg/L | | 10/15/22 12:10 | 10/22/22 00:05 | 250 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 10/06/22 21:57 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 10/06/22 21:57 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 21:57 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 21000 | | 2000 | 2000 | mg/L | | | 09/29/22 11:31 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.14 | | | | SU | | | 09/28/22 17:35 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: BG-1LT

Lab Sample ID: 680-221861-5

Date Collected: 09/28/22 07:49

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 200 | 40 | mg/L | | | 10/14/22 10:59 | 200 |
| Fluoride | <8.0 | | 20 | 8.0 | mg/L | | | 10/14/22 10:59 | 200 |
| Sulfate | 1600 | | 200 | 80 | mg/L | | | 10/14/22 10:59 | 200 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0060 | | 0.0063 | 0.0060 | mg/L | | 10/15/22 12:10 | 10/21/22 01:31 | 25 |
| Boron | 2.8 | | 0.25 | 0.0059 | mg/L | | 10/15/22 12:10 | 10/21/22 01:31 | 25 |
| Calcium | 260 | | 1.3 | 0.63 | mg/L | | 10/15/22 12:10 | 10/21/22 01:31 | 25 |
| Lithium | 0.10 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:31 | 25 |
| Magnesium | 780 | | 0.63 | 0.21 | mg/L | | 10/15/22 12:10 | 10/21/22 01:31 | 25 |
| Potassium | 200 | ^3+ | 13 | 8.5 | mg/L | | 10/15/22 12:10 | 10/24/22 16:23 | 250 |
| Sodium | 6000 | | 13 | 8.0 | mg/L | | 10/15/22 12:10 | 10/22/22 00:08 | 250 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/06/22 23:37 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/06/22 23:37 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 23:37 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 20000 | | 2000 | 2000 | mg/L | | | 09/29/22 11:31 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.95 | | | | SU | | | 09/28/22 07:49 | 1 |

Client Sample ID: DUP-3

Lab Sample ID: 680-221861-6

Date Collected: 09/28/22 00:00

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 13000 | | 200 | 40 | mg/L | | | 10/14/22 11:12 | 200 |
| Fluoride | <8.0 | | 20 | 8.0 | mg/L | | | 10/14/22 11:12 | 200 |
| Sulfate | 1500 | | 200 | 80 | mg/L | | | 10/14/22 11:12 | 200 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0060 | | 0.0063 | 0.0060 | mg/L | | 10/15/22 12:10 | 10/21/22 01:35 | 25 |
| Boron | 2.8 | | 0.25 | 0.0059 | mg/L | | 10/15/22 12:10 | 10/21/22 01:35 | 25 |
| Calcium | 260 | | 1.3 | 0.63 | mg/L | | 10/15/22 12:10 | 10/21/22 01:35 | 25 |
| Lithium | 0.095 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:35 | 25 |
| Magnesium | 780 | | 0.63 | 0.21 | mg/L | | 10/15/22 12:10 | 10/21/22 01:35 | 25 |
| Potassium | 200 | ^3+ | 13 | 8.5 | mg/L | | 10/15/22 12:10 | 10/24/22 16:26 | 250 |
| Sodium | 5900 | | 13 | 8.0 | mg/L | | 10/15/22 12:10 | 10/22/22 00:11 | 250 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: DUP-3

Lab Sample ID: 680-221861-6

Date Collected: 09/28/22 00:00

Matrix: Water

Date Received: 09/29/22 12:40

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | 110 | | 5.0 | 2.2 | mg/L | | | 10/06/22 23:18 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | 110 | | 5.0 | 5.0 | mg/L | | | 10/06/22 23:18 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 23:18 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 18000 | | 2000 | 2000 | mg/L | | | 09/29/22 11:31 | 1 |

Client Sample ID: FB-2

Lab Sample ID: 680-221861-7

Date Collected: 09/28/22 08:50

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/14/22 11:25 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/14/22 11:25 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/14/22 11:25 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 10/15/22 12:10 | 10/24/22 16:29 | 5 |
| Boron | <0.0012 | | 0.050 | 0.0012 | mg/L | | 10/15/22 12:10 | 10/24/22 16:29 | 5 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 10/15/22 12:10 | 10/24/22 16:29 | 5 |
| Lithium | <0.025 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:38 | 25 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 10/15/22 12:10 | 10/22/22 00:14 | 5 |
| Potassium | <0.17 | ^3+ | 0.25 | 0.17 | mg/L | | 10/15/22 12:10 | 10/22/22 00:14 | 5 |
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 10/15/22 12:10 | 10/22/22 00:14 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 10/06/22 22:33 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:33 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:33 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/29/22 11:31 | 1 |

Client Sample ID: EB-2

Lab Sample ID: 680-221861-8

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 12:40

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/14/22 11:37 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/14/22 11:37 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/14/22 11:37 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 10/15/22 12:10 | 10/24/22 16:33 | 5 |

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: EB-2

Lab Sample ID: 680-221861-8

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 12:40

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Boron | <0.0012 | | 0.050 | 0.0012 | mg/L | | 10/15/22 12:10 | 10/24/22 16:33 | 5 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 10/15/22 12:10 | 10/24/22 16:33 | 5 |
| Lithium | <0.025 | | 0.025 | 0.025 | mg/L | | 10/15/22 12:10 | 10/21/22 01:41 | 25 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 10/15/22 12:10 | 10/22/22 00:18 | 5 |
| Potassium | <0.17 | ^3+ | 0.25 | 0.17 | mg/L | | 10/15/22 12:10 | 10/22/22 00:18 | 5 |
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 10/15/22 12:10 | 10/22/22 00:18 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 10/06/22 22:38 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:38 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 22:38 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 09/29/22 11:31 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-744183/41
Matrix: Water
Analysis Batch: 744183

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/07/22 21:43 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/07/22 21:43 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/07/22 21:43 | 1 |

Lab Sample ID: LCS 680-744183/42
Matrix: Water
Analysis Batch: 744183

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 |
| Fluoride | 2.00 | 1.99 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 10.0 | 9.74 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: LCSD 680-744183/43
Matrix: Water
Analysis Batch: 744183

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 1.99 | | mg/L | | 100 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 9.82 | | mg/L | | 98 | 90 - 110 | 1 | 15 |

Lab Sample ID: 680-221590-G-10 MS
Matrix: Water
Analysis Batch: 744183

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 17 | | 10.0 | 27.8 | | mg/L | | 104 | 80 - 120 |
| Fluoride | <0.040 | | 2.00 | 2.06 | | mg/L | | 103 | 80 - 120 |
| Sulfate | 24 | | 10.0 | 34.3 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: 680-221590-G-10 MSD
Matrix: Water
Analysis Batch: 744183

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 17 | | 10.0 | 27.9 | | mg/L | | 105 | 80 - 120 | 1 | 15 |
| Fluoride | <0.040 | | 2.00 | 2.09 | | mg/L | | 104 | 80 - 120 | 1 | 15 |
| Sulfate | 24 | | 10.0 | 34.5 | | mg/L | | 102 | 80 - 120 | 1 | 15 |

Lab Sample ID: MB 680-744246/2
Matrix: Water
Analysis Batch: 744246

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/08/22 12:31 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/08/22 12:31 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/08/22 12:31 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-744246/3
Matrix: Water
Analysis Batch: 744246

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 9.84 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 2.00 | 1.96 | | mg/L | | 98 | 90 - 110 |
| Sulfate | 10.0 | 9.66 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: LCSD 680-744246/4
Matrix: Water
Analysis Batch: 744246

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 9.83 | | mg/L | | 98 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 1.96 | | mg/L | | 98 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 9.64 | | mg/L | | 96 | 90 - 110 | 0 | 15 |

Lab Sample ID: 680-221593-2 MS
Matrix: Water
Analysis Batch: 744246

Client Sample ID: T1-4HTS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Fluoride | <1.6 | | 80.0 | 76.4 | | mg/L | | 95 | 80 - 120 |
| Sulfate | 1500 | | 400 | 1850 | | mg/L | | 96 | 80 - 120 |

Lab Sample ID: 680-221593-2 MSD
Matrix: Water
Analysis Batch: 744246

Client Sample ID: T1-4HTS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Fluoride | <1.6 | | 80.0 | 76.2 | | mg/L | | 95 | 80 - 120 | 0 | 15 |
| Sulfate | 1500 | | 400 | 1910 | | mg/L | | 111 | 80 - 120 | 3 | 15 |

Lab Sample ID: 680-221593-12 MS
Matrix: Water
Analysis Batch: 744246

Client Sample ID: T4-1HB
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Fluoride | <1.6 | | 80.0 | 76.3 | | mg/L | | 95 | 80 - 120 |
| Sulfate | 1600 | | 400 | 1990 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: 680-221593-12 MSD
Matrix: Water
Analysis Batch: 744246

Client Sample ID: T4-1HB
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Fluoride | <1.6 | | 80.0 | 75.8 | | mg/L | | 95 | 80 - 120 | 1 | 15 |
| Sulfate | 1600 | | 400 | 2040 | | mg/L | | 111 | 80 - 120 | 3 | 15 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-744247/33
Matrix: Water
Analysis Batch: 744247

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/09/22 00:25 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/09/22 00:25 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/09/22 00:25 | 1 |

Lab Sample ID: LCS 680-744247/34
Matrix: Water
Analysis Batch: 744247

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 9.88 | | mg/L | | 99 | 90 - 110 |
| Fluoride | 2.00 | 1.97 | | mg/L | | 99 | 90 - 110 |
| Sulfate | 10.0 | 9.75 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: LCSD 680-744247/35
Matrix: Water
Analysis Batch: 744247

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 9.87 | | mg/L | | 99 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 1.97 | | mg/L | | 98 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 9.78 | | mg/L | | 98 | 90 - 110 | 0 | 15 |

Lab Sample ID: 680-221593-23 MS
Matrix: Water
Analysis Batch: 744247

Client Sample ID: FB-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | <0.20 | | 10.0 | 10.0 | | mg/L | | 100 | 80 - 120 |
| Fluoride | <0.040 | | 2.00 | 2.00 | | mg/L | | 100 | 80 - 120 |
| Sulfate | <0.40 | | 10.0 | 10.0 | | mg/L | | 100 | 80 - 120 |

Lab Sample ID: 680-221593-23 MSD
Matrix: Water
Analysis Batch: 744247

Client Sample ID: FB-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | <0.20 | | 10.0 | 9.74 | | mg/L | | 97 | 80 - 120 | 3 | 15 |
| Fluoride | <0.040 | | 2.00 | 1.95 | | mg/L | | 98 | 80 - 120 | 2 | 15 |
| Sulfate | <0.40 | | 10.0 | 9.72 | | mg/L | | 97 | 80 - 120 | 3 | 15 |

Lab Sample ID: MB 680-744417/2
Matrix: Water
Analysis Batch: 744417

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/10/22 10:32 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/10/22 10:32 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/10/22 10:32 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-744417/3
Matrix: Water
Analysis Batch: 744417

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 |
| Fluoride | 2.00 | 2.14 | | mg/L | | 107 | 90 - 110 |
| Sulfate | 10.0 | 10.6 | | mg/L | | 106 | 90 - 110 |

Lab Sample ID: LCSD 680-744417/4
Matrix: Water
Analysis Batch: 744417

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 2.18 | | mg/L | | 109 | 90 - 110 | 1 | 15 |
| Sulfate | 10.0 | 10.7 | | mg/L | | 107 | 90 - 110 | 1 | 15 |

Lab Sample ID: MB 680-744497/32
Matrix: Water
Analysis Batch: 744497

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/10/22 19:55 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/10/22 19:55 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/10/22 19:55 | 1 |

Lab Sample ID: LCS 680-744497/33
Matrix: Water
Analysis Batch: 744497

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 |
| Fluoride | 2.00 | 2.09 | | mg/L | | 104 | 90 - 110 |
| Sulfate | 10.0 | 10.4 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: LCSD 680-744497/34
Matrix: Water
Analysis Batch: 744497

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.3 | | mg/L | | 103 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 2.09 | | mg/L | | 105 | 90 - 110 | 0 | 15 |
| Sulfate | 10.0 | 10.5 | | mg/L | | 105 | 90 - 110 | 1 | 15 |

Lab Sample ID: 680-221593-22 MS
Matrix: Water
Analysis Batch: 744497

Client Sample ID: DUP-2
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 12000 | | 1000 | 12600 | 4 | mg/L | | 94 | 80 - 120 |
| Fluoride | <4.0 | | 200 | 205 | | mg/L | | 102 | 80 - 120 |
| Sulfate | 1500 | | 1000 | 2520 | | mg/L | | 104 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-221593-22 MSD
Matrix: Water
Analysis Batch: 744497

Client Sample ID: DUP-2
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 12000 | | 1000 | 12600 | 4 | mg/L | | 92 | 80 - 120 | 0 | 15 |
| Fluoride | <4.0 | | 200 | 205 | | mg/L | | 103 | 80 - 120 | 0 | 15 |
| Sulfate | 1500 | | 1000 | 2510 | | mg/L | | 103 | 80 - 120 | 0 | 15 |

Lab Sample ID: MB 680-744574/2
Matrix: Water
Analysis Batch: 744574

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/11/22 10:23 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/11/22 10:23 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/11/22 10:23 | 1 |

Lab Sample ID: LCS 680-744574/3
Matrix: Water
Analysis Batch: 744574

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.0 | | mg/L | | 100 | 90 - 110 |
| Fluoride | 2.00 | 2.01 | | mg/L | | 101 | 90 - 110 |
| Sulfate | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCSD 680-744574/4
Matrix: Water
Analysis Batch: 744574

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.1 | | mg/L | | 101 | 90 - 110 | 1 | 15 |
| Fluoride | 2.00 | 2.04 | | mg/L | | 102 | 90 - 110 | 2 | 15 |
| Sulfate | 10.0 | 10.3 | | mg/L | | 103 | 90 - 110 | 2 | 15 |

Lab Sample ID: 680-222027-B-12 MS
Matrix: Water
Analysis Batch: 744574

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 3300 | | 250 | 3080 | 4 | mg/L | | -102 | 80 - 120 |
| Fluoride | <1.0 | F1 | 50.0 | 59.5 | | mg/L | | 119 | 80 - 120 |
| Sulfate | 18 | J | 250 | 297 | | mg/L | | 111 | 80 - 120 |

Lab Sample ID: 680-222027-B-12 MSD
Matrix: Water
Analysis Batch: 744574

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 3300 | | 250 | 3250 | 4 | mg/L | | -33 | 80 - 120 | 5 | 15 |
| Fluoride | <1.0 | F1 | 50.0 | 60.9 | F1 | mg/L | | 122 | 80 - 120 | 2 | 15 |
| Sulfate | 18 | J | 250 | 307 | | mg/L | | 115 | 80 - 120 | 3 | 15 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-745161/2
Matrix: Water
Analysis Batch: 745161

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 10/14/22 09:43 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 10/14/22 09:43 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 10/14/22 09:43 | 1 |

Lab Sample ID: LCS 680-745161/3
Matrix: Water
Analysis Batch: 745161

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 9.79 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 2.00 | 1.89 | | mg/L | | 95 | 90 - 110 |
| Sulfate | 10.0 | 9.40 | | mg/L | | 94 | 90 - 110 |

Lab Sample ID: LCSD 680-745161/4
Matrix: Water
Analysis Batch: 745161

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 9.78 | | mg/L | | 98 | 90 - 110 | 0 | 15 |
| Fluoride | 2.00 | 1.90 | | mg/L | | 95 | 90 - 110 | 1 | 15 |
| Sulfate | 10.0 | 9.53 | | mg/L | | 95 | 90 - 110 | 1 | 15 |

Lab Sample ID: 660-124143-E-4 MS
Matrix: Water
Analysis Batch: 745161

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 75 | | 10.0 | 84.9 | 4 | mg/L | | 98 | 80 - 120 |
| Fluoride | 0.13 | | 2.00 | 2.11 | | mg/L | | 99 | 80 - 120 |
| Sulfate | 91 | | 10.0 | 100 | 4 | mg/L | | 95 | 80 - 120 |

Lab Sample ID: 660-124143-E-4 MSD
Matrix: Water
Analysis Batch: 745161

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 75 | | 10.0 | 84.8 | 4 | mg/L | | 97 | 80 - 120 | 0 | 15 |
| Fluoride | 0.13 | | 2.00 | 2.13 | | mg/L | | 100 | 80 - 120 | 1 | 15 |
| Sulfate | 91 | | 10.0 | 100 | 4 | mg/L | | 95 | 80 - 120 | 0 | 15 |

Lab Sample ID: 680-222508-A-1 MS
Matrix: Water
Analysis Batch: 745161

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 35 | | 10.0 | 45.7 | | mg/L | | 103 | 80 - 120 |
| Fluoride | 0.64 | | 2.00 | 2.56 | | mg/L | | 96 | 80 - 120 |
| Sulfate | 74 | | 10.0 | 83.6 | 4 | mg/L | | 96 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-222508-A-1 MSD
Matrix: Water
Analysis Batch: 745161

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 35 | | 10.0 | 45.8 | | mg/L | | 104 | 80 - 120 | 0 | 15 |
| Fluoride | 0.64 | | 2.00 | 2.58 | | mg/L | | 97 | 80 - 120 | 1 | 15 |
| Sulfate | 74 | | 10.0 | 83.6 | 4 | mg/L | | 96 | 80 - 120 | 0 | 15 |

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

Lab Sample ID: 680-221593-2 MS
Matrix: Water
Analysis Batch: 744417

Client Sample ID: T1-4HTS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| Chloride - DL | 12000 | | 1000 | 13400 | 4 | mg/L | | 168 | 80 - 120 | | |
| Fluoride - DL | <4.0 | | 200 | 214 | | mg/L | | 107 | 80 - 120 | | |
| Sulfate - DL | 1500 | F1 | 1000 | 2670 | F1 | mg/L | | 122 | 80 - 120 | | |

Lab Sample ID: 680-221593-2 MSD
Matrix: Water
Analysis Batch: 744417

Client Sample ID: T1-4HTS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride - DL | 12000 | | 1000 | 14400 | 4 | mg/L | | 270 | 80 - 120 | 7 | 15 |
| Fluoride - DL | <4.0 | | 200 | 231 | | mg/L | | 115 | 80 - 120 | 8 | 15 |
| Sulfate - DL | 1500 | F1 | 1000 | 2940 | F1 | mg/L | | 149 | 80 - 120 | 10 | 15 |

Lab Sample ID: 680-221593-12 MS
Matrix: Water
Analysis Batch: 744497

Client Sample ID: T4-1HB
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| Chloride - DL | 13000 | | 1000 | 13800 | 4 | mg/L | | 110 | 80 - 120 | | |
| Fluoride - DL | <4.0 | | 200 | 207 | | mg/L | | 103 | 80 - 120 | | |
| Sulfate - DL | 1600 | | 1000 | 2670 | | mg/L | | 106 | 80 - 120 | | |

Lab Sample ID: 680-221593-12 MSD
Matrix: Water
Analysis Batch: 744497

Client Sample ID: T4-1HB
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride - DL | 13000 | | 1000 | 13800 | 4 | mg/L | | 108 | 80 - 120 | 0 | 15 |
| Fluoride - DL | <4.0 | | 200 | 207 | | mg/L | | 103 | 80 - 120 | 0 | 15 |
| Sulfate - DL | 1600 | | 1000 | 2680 | | mg/L | | 106 | 80 - 120 | 0 | 15 |

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-594103/1-A ^5
Matrix: Water
Analysis Batch: 594519

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 09/27/22 16:07 | 09/29/22 21:45 | 5 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

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

Lab Sample ID: MB 400-594103/1-A ^5
Matrix: Water
Analysis Batch: 594519

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|------|-------|------|---|----------------|----------------|---------|
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 09/27/22 16:07 | 09/29/22 21:45 | 5 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 09/27/22 16:07 | 09/29/22 21:45 | 5 |
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 09/27/22 16:07 | 09/29/22 21:45 | 5 |

Lab Sample ID: MB 400-594103/1-A ^5
Matrix: Water
Analysis Batch: 594696

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | <0.0049 | | 0.0050 | 0.0049 | mg/L | | 09/27/22 16:07 | 09/30/22 18:44 | 5 |

Lab Sample ID: LCS 400-594103/2-A ^5
Matrix: Water
Analysis Batch: 594519

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic | 0.0500 | 0.0546 | | mg/L | | 109 | 80 - 120 |
| Calcium | 5.00 | 4.90 | | mg/L | | 98 | 80 - 120 |
| Magnesium | 5.00 | 5.08 | | mg/L | | 102 | 80 - 120 |
| Sodium | 5.00 | 4.82 | | mg/L | | 96 | 80 - 120 |

Lab Sample ID: LCS 400-594103/2-A ^5
Matrix: Water
Analysis Batch: 594696

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Lithium | 0.0500 | 0.0532 | | mg/L | | 106 | 80 - 120 |

Lab Sample ID: LCS 400-594103/2-A ^5
Matrix: Water
Analysis Batch: 595819

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Boron | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |
| Potassium | 5.00 | 5.12 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: 680-221593-21 MS
Matrix: Water
Analysis Batch: 594519

Client Sample ID: DUP-1
Prep Type: Total Recoverable
Prep Batch: 594103

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|-------|-------------|
| Arsenic | 0.0026 | | 0.0500 | 0.0584 | | mg/L | | 112 | 75 - 125 |
| Calcium | 280 | | 5.00 | 285 | 4 | mg/L | | 106 | 75 - 125 |
| Magnesium | 860 | | 5.00 | 859 | 4 | mg/L | | -99 | 75 - 125 |
| Sodium | 6700 | | 5.00 | 6590 | 4 | mg/L | | -2616 | 75 - 125 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

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

Lab Sample ID: 680-221593-21 MS

Matrix: Water

Analysis Batch: 594696

Client Sample ID: DUP-1

Prep Type: Total Recoverable

Prep Batch: 594103

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec | |
|---------|--------|-----------|--------|--------|-----------|------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD |
| Calcium | 280 | | 5.00 | 289 | 4 | mg/L | | 259 | 75 - 125 | |
| Lithium | 0.12 | F1 | 0.0500 | 0.183 | F1 | mg/L | | 136 | 75 - 125 | |

Lab Sample ID: 680-221593-21 MSD

Matrix: Water

Analysis Batch: 594519

Client Sample ID: DUP-1

Prep Type: Total Recoverable

Prep Batch: 594103

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------|--------|-----------|--------|--------|-----------|------|---|-------|----------|-----|-------|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD | Limit | |
| Arsenic | 0.0026 | | 0.0500 | 0.0563 | | mg/L | | 107 | 75 - 125 | 4 | 20 | |
| Calcium | 280 | | 5.00 | 277 | 4 | mg/L | | -52 | 75 - 125 | 3 | 20 | |
| Magnesium | 860 | | 5.00 | 837 | 4 | mg/L | | -525 | 75 - 125 | 3 | 20 | |
| Sodium | 6700 | | 5.00 | 6380 | 4 | mg/L | | -6800 | 75 - 125 | 3 | 20 | |

Lab Sample ID: 680-221593-21 MSD

Matrix: Water

Analysis Batch: 594696

Client Sample ID: DUP-1

Prep Type: Total Recoverable

Prep Batch: 594103

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | | RPD | Limit |
|---------|--------|-----------|--------|--------|-----------|------|---|------|----------|-----|-------|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD | Limit | |
| Calcium | 280 | | 5.00 | 282 | 4 | mg/L | | 110 | 75 - 125 | 3 | 20 | |
| Lithium | 0.12 | F1 | 0.0500 | 0.155 | | mg/L | | 79 | 75 - 125 | 17 | 20 | |

Lab Sample ID: MB 400-594691/1-A ^5

Matrix: Water

Analysis Batch: 594928

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 594691

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |
| Lithium | <0.0049 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 19:15 | 5 |

Lab Sample ID: MB 400-594691/1-A ^5

Matrix: Water

Analysis Batch: 595577

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 594691

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/07/22 21:11 | 5 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/07/22 21:11 | 5 |
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/07/22 21:11 | 5 |

Lab Sample ID: MB 400-594691/1-A ^5

Matrix: Water

Analysis Batch: 596288

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 594691

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|-------|--------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Boron | <0.0012 | | 0.050 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/13/22 19:27 | 5 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/13/22 19:27 | 5 |
| Potassium | <0.17 | | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/13/22 19:27 | 5 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

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

Lab Sample ID: LCS 400-594691/2-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic | 0.0500 | 0.0494 | | mg/L | | 99 | 80 - 120 |
| Calcium | 5.00 | 5.08 | | mg/L | | 102 | 80 - 120 |
| Lithium | 0.0500 | 0.0460 | | mg/L | | 92 | 80 - 120 |
| Magnesium | 5.00 | 4.85 | | mg/L | | 97 | 80 - 120 |
| Potassium | 5.00 | 5.38 | | mg/L | | 108 | 80 - 120 |
| Sodium | 5.00 | 4.91 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: LCS 400-594691/2-A ^5
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Boron | 0.100 | 0.0862 | | mg/L | | 86 | 80 - 120 |

Lab Sample ID: 680-221590-E-8-B MS ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Boron | 1.0 | B ** | 0.100 | 1.21 | 4 | mg/L | | 178 | 75 - 125 |
| Calcium | 93 | B | 5.00 | 95.8 | 4 | mg/L | | 66 | 75 - 125 |
| Lithium | 0.028 | | 0.0500 | 0.0755 | | mg/L | | 95 | 75 - 125 |
| Magnesium | 200 | B | 5.00 | 203 | 4 | mg/L | | 118 | 75 - 125 |
| Potassium | 83 | B ^2 | 5.00 | 89.4 | 4 | mg/L | | 120 | 75 - 125 |
| Sodium | 1800 | B ^2 | 5.00 | 1760 | 4 | mg/L | | 43 | 75 - 125 |

Lab Sample ID: 680-221590-E-8-B MS ^50
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Arsenic | <0.012 | | 0.0500 | 0.0438 | | mg/L | | 88 | 75 - 125 |
| Boron | 1.0 | B | 0.100 | 1.10 | 4 | mg/L | | 76 | 75 - 125 |
| Magnesium | 190 | | 5.00 | 197 | 4 | mg/L | | 206 | 75 - 125 |
| Potassium | 59 | *- | 5.00 | 66.4 | 4 | mg/L | | 152 | 75 - 125 |
| Sodium | 1800 | | 5.00 | 1860 | 4 | mg/L | | 1104 | 75 - 125 |

Lab Sample ID: 680-221590-E-8-C MSD ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|-------|-------------|-----|-----------|
| Boron | 1.0 | B ** | 0.100 | 1.17 | 4 | mg/L | | 139 | 75 - 125 | 3 | 20 |
| Calcium | 93 | B | 5.00 | 91.6 | 4 | mg/L | | -18 | 75 - 125 | 5 | 20 |
| Lithium | 0.028 | | 0.0500 | 0.0727 | | mg/L | | 90 | 75 - 125 | 4 | 20 |
| Magnesium | 200 | B | 5.00 | 194 | 4 | mg/L | | -76 | 75 - 125 | 5 | 20 |
| Potassium | 83 | B ^2 | 5.00 | 84.7 | 4 | mg/L | | 27 | 75 - 125 | 5 | 20 |
| Sodium | 1800 | B ^2 | 5.00 | 1680 | 4 | mg/L | | -1571 | 75 - 125 | 5 | 20 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

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

Lab Sample ID: 680-221590-E-8-C MSD ^50
Matrix: Water
Analysis Batch: 595577

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 594691

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|-----------|--------|-----------|--------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Arsenic | <0.012 | | 0.0500 | 0.0480 | | mg/L | | 96 | 75 - 125 | 9 | 20 |
| Boron | 1.0 | B | 0.100 | 1.11 | 4 | mg/L | | 93 | 75 - 125 | 1 | 20 |
| Magnesium | 190 | | 5.00 | 195 | 4 | mg/L | | 157 | 75 - 125 | 1 | 20 |
| Potassium | 59 | *- | 5.00 | 64.6 | 4 | mg/L | | 116 | 75 - 125 | 3 | 20 |
| Sodium | 1800 | | 5.00 | 1840 | 4 | mg/L | | 681 | 75 - 125 | 1 | 20 |

Lab Sample ID: MB 400-594692/1-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594692

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|-----|-----|
| | Result | Qualifier | | | | | | | | |
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |
| Boron | 0.00557 | J | 0.050 | 0.0012 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |
| Lithium | <0.0049 | | 0.0050 | 0.0049 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |
| Potassium | <0.17 | | 0.25 | 0.17 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 10/02/22 11:35 | 10/03/22 17:11 | | 5 |

Lab Sample ID: LCS 400-594692/2-A ^5
Matrix: Water
Analysis Batch: 594928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594692

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec |
|-----------|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | Limits |
| Arsenic | 0.0500 | 0.0471 | | mg/L | | 94 | 80 - 120 |
| Boron | 0.100 | 0.0941 | | mg/L | | 94 | 80 - 120 |
| Calcium | 5.00 | 4.93 | | mg/L | | 99 | 80 - 120 |
| Lithium | 0.0500 | 0.0458 | | mg/L | | 92 | 80 - 120 |
| Magnesium | 5.00 | 4.84 | | mg/L | | 97 | 80 - 120 |
| Potassium | 5.00 | 4.93 | | mg/L | | 99 | 80 - 120 |
| Sodium | 5.00 | 4.64 | | mg/L | | 93 | 80 - 120 |

Lab Sample ID: 680-221593-11 MS
Matrix: Water
Analysis Batch: 594928

Client Sample ID: T3-4HTS
Prep Type: Total Recoverable
Prep Batch: 594692

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-----------|--------|-----------|--------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Arsenic | 0.0021 | | 0.0500 | 0.0492 | | mg/L | | 94 | 75 - 125 |
| Boron | 2.1 | | 0.100 | 2.20 | 4 ^+ | mg/L | | 72 | 75 - 125 |
| Calcium | 210 | | 5.00 | 215 | 4 | mg/L | | 100 | 75 - 125 |
| Lithium | 0.079 | | 0.0500 | 0.128 | | mg/L | | 98 | 75 - 125 |
| Magnesium | 620 | | 5.00 | 617 | 4 | mg/L | | -69 | 75 - 125 |
| Potassium | 210 | | 5.00 | 214 | 4 | mg/L | | 76 | 75 - 125 |
| Sodium | 4900 | | 5.00 | 4850 | 4 | mg/L | | -866 | 75 - 125 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

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

Lab Sample ID: 680-221593-11 MSD
Matrix: Water
Analysis Batch: 594928

Client Sample ID: T3-4HTS
Prep Type: Total Recoverable
Prep Batch: 594692

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Arsenic | 0.0021 | | 0.0500 | 0.0501 | | mg/L | | 96 | 75 - 125 | 2 | 20 |
| Boron | 2.1 | | 0.100 | 2.36 | 4 ^+ | mg/L | | 234 | 75 - 125 | 7 | 20 |
| Calcium | 210 | | 5.00 | 224 | 4 | mg/L | | 286 | 75 - 125 | 4 | 20 |
| Lithium | 0.079 | | 0.0500 | 0.134 | | mg/L | | 109 | 75 - 125 | 4 | 20 |
| Magnesium | 620 | | 5.00 | 652 | 4 | mg/L | | 627 | 75 - 125 | 5 | 20 |
| Potassium | 210 | | 5.00 | 226 | 4 | mg/L | | 305 | 75 - 125 | 5 | 20 |
| Sodium | 4900 | | 5.00 | 5060 | 4 | mg/L | | 3359 | 75 - 125 | 4 | 20 |

Lab Sample ID: MB 400-596445/1-A ^5
Matrix: Water
Analysis Batch: 597203

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 10/15/22 12:10 | 10/20/22 23:44 | 5 |
| Boron | <0.0012 | | 0.050 | 0.0012 | mg/L | | 10/15/22 12:10 | 10/20/22 23:44 | 5 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 10/15/22 12:10 | 10/20/22 23:44 | 5 |
| Lithium | <0.0049 | | 0.0050 | 0.0049 | mg/L | | 10/15/22 12:10 | 10/20/22 23:44 | 5 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 10/15/22 12:10 | 10/20/22 23:44 | 5 |
| Potassium | <0.17 | ^3+ | 0.25 | 0.17 | mg/L | | 10/15/22 12:10 | 10/20/22 23:44 | 5 |

Lab Sample ID: MB 400-596445/1-A ^5
Matrix: Water
Analysis Batch: 597436

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 10/15/22 12:10 | 10/21/22 22:02 | 5 |

Lab Sample ID: LCS 400-596445/2-A ^5
Matrix: Water
Analysis Batch: 597203

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic | 0.0500 | 0.0462 | | mg/L | | 92 | 80 - 120 |
| Calcium | 5.00 | 4.81 | | mg/L | | 96 | 80 - 120 |
| Lithium | 0.0500 | 0.0472 | | mg/L | | 94 | 80 - 120 |
| Magnesium | 5.00 | 4.51 | | mg/L | | 90 | 80 - 120 |
| Potassium | 5.00 | 4.82 | ^3+ | mg/L | | 96 | 80 - 120 |

Lab Sample ID: LCS 400-596445/2-A ^5
Matrix: Water
Analysis Batch: 597672

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Boron | 0.100 | 0.0928 | | mg/L | | 93 | 80 - 120 |
| Sodium | 5.00 | 4.68 | | mg/L | | 94 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

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

Lab Sample ID: 400-226773-G-1-B MS ^25
Matrix: Water
Analysis Batch: 597203

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec | Limits |
|-----------|---------|-----------|--------|--------|-----------|------|---|------|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Arsenic | <0.0060 | | 0.0500 | 0.0505 | | mg/L | | 101 | | 75 - 125 |
| Boron | <0.0059 | F1 *- | 0.100 | 0.0759 | J | mg/L | | 76 | | 75 - 125 |
| Calcium | 190 | | 5.00 | 190 | 4 | mg/L | | 66 | | 75 - 125 |
| Lithium | <0.025 | F1 | 0.0500 | 0.0666 | F1 | mg/L | | 133 | | 75 - 125 |
| Magnesium | 17 | | 5.00 | 21.1 | | mg/L | | 90 | | 75 - 125 |

Lab Sample ID: 400-226773-G-1-B MS ^25
Matrix: Water
Analysis Batch: 597436

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec | Limits |
|-----------|---------|----------------|--------|--------|-----------|------|---|------|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Arsenic | <0.0060 | | 0.0500 | 0.0470 | | mg/L | | 94 | | 75 - 125 |
| Calcium | 180 | | 5.00 | 185 | 4 | mg/L | | 129 | | 75 - 125 |
| Magnesium | 17 | | 5.00 | 21.3 | | mg/L | | 93 | | 75 - 125 |
| Potassium | <0.85 | ^3+ F1 L *_ | 5.00 | <0.85 | F1 ^3+ | mg/L | | 0 | | 75 - 125 |
| Sodium | 21 | | 5.00 | 26.3 | 4 | mg/L | | 110 | | 75 - 125 |

Lab Sample ID: 400-226773-G-1-C MSD ^25
Matrix: Water
Analysis Batch: 597203

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | Limits | RPD | Limit |
|-----------|---------|-----------|--------|--------|-----------|------|---|------|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | | |
| Arsenic | <0.0060 | | 0.0500 | 0.0505 | | mg/L | | 101 | | 75 - 125 | 0 | 20 |
| Boron | <0.0059 | F1 *- | 0.100 | 0.0701 | J F1 | mg/L | | 70 | | 75 - 125 | 8 | 20 |
| Calcium | 190 | | 5.00 | 188 | 4 | mg/L | | 15 | | 75 - 125 | 1 | 20 |
| Lithium | <0.025 | F1 | 0.0500 | 0.0672 | F1 | mg/L | | 134 | | 75 - 125 | 1 | 20 |
| Magnesium | 17 | | 5.00 | 21.2 | | mg/L | | 93 | | 75 - 125 | 1 | 20 |

Lab Sample ID: 400-226773-G-1-C MSD ^25
Matrix: Water
Analysis Batch: 597436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 596445

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | Limits | RPD | Limit |
|-----------|---------|----------------|--------|--------|-----------|------|---|------|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | | |
| Arsenic | <0.0060 | | 0.0500 | 0.0435 | | mg/L | | 87 | | 75 - 125 | 8 | 20 |
| Calcium | 180 | | 5.00 | 182 | 4 | mg/L | | 73 | | 75 - 125 | 2 | 20 |
| Magnesium | 17 | | 5.00 | 21.3 | | mg/L | | 93 | | 75 - 125 | 0 | 20 |
| Potassium | <0.85 | ^3+ F1 L *_ | 5.00 | <0.85 | ^3+ F1 | mg/L | | 0 | | 75 - 125 | NC | 20 |
| Sodium | 21 | | 5.00 | 25.4 | 4 | mg/L | | 92 | | 75 - 125 | 4 | 20 |

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-742597/4
Matrix: Water
Analysis Batch: 742597

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/27/22 18:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 18:23 | 1 |

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QC Sample Results

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 680-742597/4
Matrix: Water
Analysis Batch: 742597

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/27/22 18:23 | 1 |

Lab Sample ID: LCS 680-742597/6
Matrix: Water
Analysis Batch: 742597

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 247 | | mg/L | | 99 | 90 - 112 |

Lab Sample ID: LCSD 680-742597/31
Matrix: Water
Analysis Batch: 742597

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 |
|-------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 244 | | mg/L | | 98 | 90 - 112 | 1 | 30 |

Lab Sample ID: 680-221590-D-5 DU
Matrix: Water
Analysis Batch: 742597

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 300 | | 293 | | mg/L | | 1 | 30 |
| Bicarbonate Alkalinity as CaCO3 | 300 | | 293 | | mg/L | | 1 | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Lab Sample ID: MB 680-742777/4
Matrix: Water
Analysis Batch: 742777

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | 5.0 | 2.2 | mg/L | | | 09/28/22 16:38 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 16:38 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 09/28/22 16:38 | 1 |

Lab Sample ID: LCS 680-742777/6
Matrix: Water
Analysis Batch: 742777

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 249 | | mg/L | | 100 | 90 - 112 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-742777/31
Matrix: Water
Analysis Batch: 742777

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 |
|-------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 248 | | mg/L | | 99 | 90 - 112 | 1 | 30 |

Lab Sample ID: 680-221593-2 DU
Matrix: Water
Analysis Batch: 742777

Client Sample ID: T1-4HTS
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 100 | | 102 | | mg/L | | 0.3 | 30 |
| Bicarbonate Alkalinity as CaCO3 | 100 | | 102 | | mg/L | | 0.3 | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Lab Sample ID: 680-221593-14 DU
Matrix: Water
Analysis Batch: 742777

Client Sample ID: T4-2HB
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 109 | | mg/L | | 3 | 30 |
| Bicarbonate Alkalinity as CaCO3 | 110 | | 109 | | mg/L | | 3 | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Lab Sample ID: MB 680-743661/4
Matrix: Water
Analysis Batch: 743661

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | 5.0 | 2.2 | mg/L | | | 10/04/22 14:22 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 14:22 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/04/22 14:22 | 1 |

Lab Sample ID: LCS 680-743661/6
Matrix: Water
Analysis Batch: 743661

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-------------------------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 252 | | mg/L | | 101 | 90 - 112 | | |

Lab Sample ID: LCSD 680-743661/31
Matrix: Water
Analysis Batch: 743661

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 |
|-------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 247 | | mg/L | | 99 | 90 - 112 | 2 | 30 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-221593-23 DU
Matrix: Water
Analysis Batch: 743661

Client Sample ID: FB-1
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|-------------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | <2.2 | | mg/L | | NC | 30 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Lab Sample ID: MB 680-744061/4
Matrix: Water
Analysis Batch: 744061

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Alkalinity as CaCO3 to pH 4.5 | <2.2 | | 5.0 | 2.2 | mg/L | | | 10/06/22 20:38 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 20:38 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 10/06/22 20:38 | 1 |

Lab Sample ID: LCS 680-744061/6
Matrix: Water
Analysis Batch: 744061

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |

Lab Sample ID: LCSD 680-744061/31
Matrix: Water
Analysis Batch: 744061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|-------------|-------------|----------------|------|---|------|-------------|-----|-------|
| | | | | | | | | | |

Lab Sample ID: 680-221861-6 DU
Matrix: Water
Analysis Batch: 744061

Client Sample ID: DUP-3
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|-------------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 109 | | mg/L | | 0.1 | 30 |
| Bicarbonate Alkalinity as CaCO3 | 110 | | 109 | | mg/L | | 0.1 | 30 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 30 |

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-742396/1
Matrix: Water
Analysis Batch: 742396

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 09/27/22 12:02 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-742396/2
Matrix: Water
Analysis Batch: 742396

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2420 | 2440 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: LCSD 680-742396/3
Matrix: Water
Analysis Batch: 742396

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2420 | 2410 | | mg/L | | 100 | 80 - 120 | 1 | 25 |

Lab Sample ID: 680-221590-C-4 DU
Matrix: Water
Analysis Batch: 742396

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 2100 | | 2010 | | mg/L | | 3 | 5 |

Lab Sample ID: MB 680-742611/1
Matrix: Water
Analysis Batch: 742611

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 09/28/22 12:20 | 1 |

Lab Sample ID: LCS 680-742611/2
Matrix: Water
Analysis Batch: 742611

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2420 | 2460 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: LCSD 680-742611/3
Matrix: Water
Analysis Batch: 742611

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2420 | 2440 | | mg/L | | 101 | 80 - 120 | 1 | 25 |

Lab Sample ID: 680-221732-C-2 DU
Matrix: Water
Analysis Batch: 742611

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 710 | | 710 | | mg/L | | 0.3 | 5 |

Lab Sample ID: 680-221762-A-1 DU
Matrix: Water
Analysis Batch: 742611

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 420 | | 424 | | mg/L | | 0.9 | 5 |

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QC Sample Results

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-742802/1
Matrix: Water
Analysis Batch: 742802

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 09/29/22 11:31 | 1 |

Lab Sample ID: LCS 680-742802/2
Matrix: Water
Analysis Batch: 742802

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2420 | 2460 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: LCSD 680-742802/3
Matrix: Water
Analysis Batch: 742802

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2420 | 2420 | | mg/L | | 100 | 80 - 120 | 1 | 25 |

Lab Sample ID: 680-221651-O-1 DU
Matrix: Water
Analysis Batch: 742802

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 450 | | 448 | | mg/L | | 0.4 | 5 |

Lab Sample ID: 680-221651-P-2 DU
Matrix: Water
Analysis Batch: 742802

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 480 | | 460 | | mg/L | | 4 | 5 |

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

HPLC/IC

Analysis Batch: 744183

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221593-1 | T1-4HT | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744183/41 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744183/42 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744183/43 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-G-10 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221590-G-10 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221593-2 | T1-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-3 | T2-1HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-4 | T2-2HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-5 | T2-2HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-6 | T2-3HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-7 | T2-3HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-8 | T2-4HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-9 | T2-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-10 | T3-4HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-11 | T3-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-12 | T4-1HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-13 | T4-1HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-14 | T4-2HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-15 | T4-2HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-16 | T4-3HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-17 | T4-3HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-18 | T4-4HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-19 | T4-4HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-20 | BG-2HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-21 | DUP-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744246/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744246/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744246/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-2 MS | T1-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-2 MSD | T1-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-12 MS | T4-1HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-12 MSD | T4-1HB | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744247

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221593-22 | DUP-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-23 | FB-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-24 | EB-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744247/33 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744247/34 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744247/35 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-23 MS | FB-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-23 MSD | FB-1 | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744417

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|-----------------|------------|
| 680-221593-2 - DL | T1-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

HPLC/IC (Continued)

Analysis Batch: 744417 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221593-3 - DL | T2-1HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-4 - DL | T2-2HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-5 - DL | T2-2HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-6 - DL | T2-3HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-7 - DL | T2-3HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-9 - DL | T2-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-10 - DL | T3-4HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-11 - DL | T3-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744417/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744417/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744417/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-2 MS - DL | T1-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-2 MSD - DL | T1-4HTS | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221593-12 - DL | T4-1HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-13 - DL | T4-1HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-14 - DL | T4-2HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-15 - DL | T4-2HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-16 - DL | T4-3HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-17 - DL | T4-3HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-18 - DL | T4-4HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-19 - DL | T4-4HS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-20 - DL | BG-2HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-21 - DL | DUP-1 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-22 - DL | DUP-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744497/32 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744497/33 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744497/34 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-12 MS - DL | T4-1HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-12 MSD - DL | T4-1HB | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-22 MS | DUP-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221593-22 MSD | DUP-2 | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 744574

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221593-8 | T2-4HT | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-744574/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-744574/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-744574/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-222027-B-12 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-222027-B-12 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |

Analysis Batch: 745161

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------------|------------|
| 680-221861-1 | T1-4LT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221861-2 | T2-4LT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221861-3 | T3-4LT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221861-4 | T4-4L | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221861-5 | BG-1LT | Total/NA | Water | 300.0-1993 R2.1 | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

HPLC/IC (Continued)

Analysis Batch: 745161 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-221861-6 | DUP-3 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221861-7 | FB-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-221861-8 | EB-2 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-745161/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-745161/3 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCSD 680-745161/4 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 660-124143-E-4 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 660-124143-E-4 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-222508-A-1 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-222508-A-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |

Metals

Prep Batch: 594103

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221593-21 | DUP-1 | Total Recoverable | Water | 3005A | |
| 680-221593-22 | DUP-2 | Total Recoverable | Water | 3005A | |
| 680-221593-23 | FB-1 | Total Recoverable | Water | 3005A | |
| 680-221593-24 | EB-1 | Total Recoverable | Water | 3005A | |
| MB 400-594103/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-594103/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221593-21 MS | DUP-1 | Total Recoverable | Water | 3005A | |
| 680-221593-21 MSD | DUP-1 | Total Recoverable | Water | 3005A | |

Analysis Batch: 594519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221593-21 | DUP-1 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-22 | DUP-2 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-23 | FB-1 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-24 | EB-1 | Total Recoverable | Water | 6020B | 594103 |
| MB 400-594103/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594103 |
| LCS 400-594103/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-21 MS | DUP-1 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-21 MSD | DUP-1 | Total Recoverable | Water | 6020B | 594103 |

Prep Batch: 594691

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------------|--------------------|-------------------|--------|--------|------------|
| 680-221593-1 | T1-4HT | Total Recoverable | Water | 3005A | |
| 680-221593-2 | T1-4HTS | Total Recoverable | Water | 3005A | |
| 680-221593-3 | T2-1HT | Total Recoverable | Water | 3005A | |
| 680-221593-4 | T2-2HT | Total Recoverable | Water | 3005A | |
| 680-221593-5 | T2-2HTS | Total Recoverable | Water | 3005A | |
| 680-221593-6 | T2-3HT | Total Recoverable | Water | 3005A | |
| 680-221593-7 | T2-3HTS | Total Recoverable | Water | 3005A | |
| 680-221593-8 | T2-4HT | Total Recoverable | Water | 3005A | |
| 680-221593-9 | T2-4HTS | Total Recoverable | Water | 3005A | |
| 680-221593-10 | T3-4HT | Total Recoverable | Water | 3005A | |
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-594691/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221590-E-8-B MS ^5 | Matrix Spike | Total Recoverable | Water | 3005A | |
| 680-221590-E-8-B MS ^50 | Matrix Spike | Total Recoverable | Water | 3005A | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Metals (Continued)

Prep Batch: 594691 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-------------------|--------|--------|------------|
| 680-221590-E-8-C MSD ^5 | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |
| 680-221590-E-8-C MSD ^50 | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |

Prep Batch: 594692

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221593-11 | T3-4HTS | Total Recoverable | Water | 3005A | |
| 680-221593-12 | T4-1HB | Total Recoverable | Water | 3005A | |
| 680-221593-13 | T4-1HS | Total Recoverable | Water | 3005A | |
| 680-221593-14 | T4-2HB | Total Recoverable | Water | 3005A | |
| 680-221593-15 | T4-2HS | Total Recoverable | Water | 3005A | |
| 680-221593-16 | T4-3HB | Total Recoverable | Water | 3005A | |
| 680-221593-17 | T4-3HS | Total Recoverable | Water | 3005A | |
| 680-221593-18 | T4-4HB | Total Recoverable | Water | 3005A | |
| 680-221593-19 | T4-4HS | Total Recoverable | Water | 3005A | |
| 680-221593-20 | BG-2HT | Total Recoverable | Water | 3005A | |
| MB 400-594692/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-594692/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-221593-11 MS | T3-4HTS | Total Recoverable | Water | 3005A | |
| 680-221593-11 MSD | T3-4HTS | Total Recoverable | Water | 3005A | |

Analysis Batch: 594696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| MB 400-594103/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594103 |
| LCS 400-594103/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-21 MS | DUP-1 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-21 MSD | DUP-1 | Total Recoverable | Water | 6020B | 594103 |

Analysis Batch: 594928

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------|-------------------|--------|--------|------------|
| 680-221593-1 | T1-4HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-2 | T1-4HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-3 | T2-1HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-4 | T2-2HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-5 | T2-2HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-6 | T2-3HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-7 | T2-3HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-8 | T2-4HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-9 | T2-4HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-10 | T3-4HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-11 | T3-4HTS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-12 | T4-1HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-13 | T4-1HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-14 | T4-2HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-15 | T4-2HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-16 | T4-3HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-17 | T4-3HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-18 | T4-4HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-19 | T4-4HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-20 | BG-2HT | Total Recoverable | Water | 6020B | 594692 |
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594691 |
| MB 400-594692/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594692 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Metals (Continued)

Analysis Batch: 594928 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------------|------------------------|-------------------|--------|--------|------------|
| LCS 400-594691/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594691 |
| LCS 400-594692/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594692 |
| 680-221590-E-8-B MS ^5 | Matrix Spike | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-E-8-C MSD ^5 | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-11 MS | T3-4HTS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-11 MSD | T3-4HTS | Total Recoverable | Water | 6020B | 594692 |

Analysis Batch: 595577

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-------------------|--------|--------|------------|
| 680-221593-1 | T1-4HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-2 | T1-4HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-3 | T2-1HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-4 | T2-2HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-5 | T2-2HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-6 | T2-3HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-7 | T2-3HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-8 | T2-4HT | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-9 | T2-4HTS | Total Recoverable | Water | 6020B | 594691 |
| 680-221593-10 | T3-4HT | Total Recoverable | Water | 6020B | 594691 |
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594691 |
| LCS 400-594691/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-E-8-B MS ^50 | Matrix Spike | Total Recoverable | Water | 6020B | 594691 |
| 680-221590-E-8-C MSD ^50 | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 594691 |

Analysis Batch: 595819

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221593-12 | T4-1HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-13 | T4-1HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-14 | T4-2HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-15 | T4-2HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-16 | T4-3HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-17 | T4-3HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-18 | T4-4HB | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-19 | T4-4HS | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-20 | BG-2HT | Total Recoverable | Water | 6020B | 594692 |
| 680-221593-21 | DUP-1 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-22 | DUP-2 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-23 | FB-1 | Total Recoverable | Water | 6020B | 594103 |
| 680-221593-24 | EB-1 | Total Recoverable | Water | 6020B | 594103 |
| LCS 400-594103/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 594103 |

Analysis Batch: 596288

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------|-------------------|--------|--------|------------|
| MB 400-594691/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 594691 |

Prep Batch: 596445

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-221861-1 | T1-4LT | Total Recoverable | Water | 3005A | |
| 680-221861-2 | T2-4LT | Total Recoverable | Water | 3005A | |
| 680-221861-3 | T3-4LT | Total Recoverable | Water | 3005A | |
| 680-221861-4 | T4-4L | Total Recoverable | Water | 3005A | |

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Metals (Continued)

Prep Batch: 596445 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-------------------|--------|--------|------------|
| 680-221861-5 | BG-1LT | Total Recoverable | Water | 3005A | |
| 680-221861-6 | DUP-3 | Total Recoverable | Water | 3005A | |
| 680-221861-7 | FB-2 | Total Recoverable | Water | 3005A | |
| 680-221861-8 | EB-2 | Total Recoverable | Water | 3005A | |
| MB 400-596445/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-596445/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 400-226773-G-1-B MS ^25 | Matrix Spike | Total Recoverable | Water | 3005A | |
| 400-226773-G-1-C MSD ^25 | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |

Analysis Batch: 597203

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-------------------|--------|--------|------------|
| 680-221861-1 | T1-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-2 | T2-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-3 | T3-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-4 | T4-4L | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-5 | BG-1LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-6 | DUP-3 | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-7 | FB-2 | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-8 | EB-2 | Total Recoverable | Water | 6020B | 596445 |
| MB 400-596445/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 596445 |
| LCS 400-596445/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 596445 |
| 400-226773-G-1-B MS ^25 | Matrix Spike | Total Recoverable | Water | 6020B | 596445 |
| 400-226773-G-1-C MSD ^25 | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 596445 |

Analysis Batch: 597436

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------------|------------------------|-------------------|--------|--------|------------|
| 680-221861-1 | T1-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-2 | T2-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-3 | T3-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-4 | T4-4L | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-5 | BG-1LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-6 | DUP-3 | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-7 | FB-2 | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-8 | EB-2 | Total Recoverable | Water | 6020B | 596445 |
| MB 400-596445/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 596445 |
| 400-226773-G-1-B MS ^25 | Matrix Spike | Total Recoverable | Water | 6020B | 596445 |
| 400-226773-G-1-C MSD ^25 | Matrix Spike Duplicate | Total Recoverable | Water | 6020B | 596445 |

Analysis Batch: 597672

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-221861-1 | T1-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-2 | T2-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-3 | T3-4LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-4 | T4-4L | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-5 | BG-1LT | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-6 | DUP-3 | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-7 | FB-2 | Total Recoverable | Water | 6020B | 596445 |
| 680-221861-8 | EB-2 | Total Recoverable | Water | 6020B | 596445 |
| LCS 400-596445/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 596445 |

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

General Chemistry

Analysis Batch: 742396

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221593-1 | T1-4HT | Total/NA | Water | 2540C-2011 | |
| 680-221593-2 | T1-4HTS | Total/NA | Water | 2540C-2011 | |
| 680-221593-3 | T2-1HT | Total/NA | Water | 2540C-2011 | |
| 680-221593-4 | T2-2HT | Total/NA | Water | 2540C-2011 | |
| 680-221593-5 | T2-2HTS | Total/NA | Water | 2540C-2011 | |
| 680-221593-6 | T2-3HT | Total/NA | Water | 2540C-2011 | |
| 680-221593-7 | T2-3HTS | Total/NA | Water | 2540C-2011 | |
| 680-221593-8 | T2-4HT | Total/NA | Water | 2540C-2011 | |
| MB 680-742396/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-742396/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCSD 680-742396/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-221590-C-4 DU | Duplicate | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 742597

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-221593-1 | T1-4HT | Total/NA | Water | 2320B-2011 | |
| MB 680-742597/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-742597/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCSD 680-742597/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-221590-D-5 DU | Duplicate | Total/NA | Water | 2320B-2011 | |

Analysis Batch: 742611

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221593-9 | T2-4HTS | Total/NA | Water | 2540C-2011 | |
| 680-221593-10 | T3-4HT | Total/NA | Water | 2540C-2011 | |
| 680-221593-11 | T3-4HTS | Total/NA | Water | 2540C-2011 | |
| 680-221593-12 | T4-1HB | Total/NA | Water | 2540C-2011 | |
| 680-221593-13 | T4-1HS | Total/NA | Water | 2540C-2011 | |
| 680-221593-14 | T4-2HB | Total/NA | Water | 2540C-2011 | |
| 680-221593-15 | T4-2HS | Total/NA | Water | 2540C-2011 | |
| 680-221593-16 | T4-3HB | Total/NA | Water | 2540C-2011 | |
| 680-221593-17 | T4-3HS | Total/NA | Water | 2540C-2011 | |
| 680-221593-18 | T4-4HB | Total/NA | Water | 2540C-2011 | |
| 680-221593-19 | T4-4HS | Total/NA | Water | 2540C-2011 | |
| 680-221593-20 | BG-2HT | Total/NA | Water | 2540C-2011 | |
| 680-221593-21 | DUP-1 | Total/NA | Water | 2540C-2011 | |
| 680-221593-22 | DUP-2 | Total/NA | Water | 2540C-2011 | |
| 680-221593-23 | FB-1 | Total/NA | Water | 2540C-2011 | |
| 680-221593-24 | EB-1 | Total/NA | Water | 2540C-2011 | |
| MB 680-742611/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-742611/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCSD 680-742611/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-221732-C-2 DU | Duplicate | Total/NA | Water | 2540C-2011 | |
| 680-221762-A-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 742777

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 680-221593-2 | T1-4HTS | Total/NA | Water | 2320B-2011 | |
| 680-221593-3 | T2-1HT | Total/NA | Water | 2320B-2011 | |
| 680-221593-4 | T2-2HT | Total/NA | Water | 2320B-2011 | |
| 680-221593-5 | T2-2HTS | Total/NA | Water | 2320B-2011 | |

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

General Chemistry (Continued)

Analysis Batch: 742777 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-221593-6 | T2-3HT | Total/NA | Water | 2320B-2011 | |
| 680-221593-7 | T2-3HTS | Total/NA | Water | 2320B-2011 | |
| 680-221593-8 | T2-4HT | Total/NA | Water | 2320B-2011 | |
| 680-221593-9 | T2-4HTS | Total/NA | Water | 2320B-2011 | |
| 680-221593-10 | T3-4HT | Total/NA | Water | 2320B-2011 | |
| 680-221593-11 | T3-4HTS | Total/NA | Water | 2320B-2011 | |
| 680-221593-12 | T4-1HB | Total/NA | Water | 2320B-2011 | |
| 680-221593-13 | T4-1HS | Total/NA | Water | 2320B-2011 | |
| 680-221593-14 | T4-2HB | Total/NA | Water | 2320B-2011 | |
| MB 680-742777/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-742777/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCSD 680-742777/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-221593-2 DU | T1-4HTS | Total/NA | Water | 2320B-2011 | |
| 680-221593-14 DU | T4-2HB | Total/NA | Water | 2320B-2011 | |

Analysis Batch: 742802

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-221861-1 | T1-4LT | Total/NA | Water | 2540C-2011 | |
| 680-221861-2 | T2-4LT | Total/NA | Water | 2540C-2011 | |
| 680-221861-3 | T3-4LT | Total/NA | Water | 2540C-2011 | |
| 680-221861-4 | T4-4L | Total/NA | Water | 2540C-2011 | |
| 680-221861-5 | BG-1LT | Total/NA | Water | 2540C-2011 | |
| 680-221861-6 | DUP-3 | Total/NA | Water | 2540C-2011 | |
| 680-221861-7 | FB-2 | Total/NA | Water | 2540C-2011 | |
| 680-221861-8 | EB-2 | Total/NA | Water | 2540C-2011 | |
| MB 680-742802/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-742802/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCSD 680-742802/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-221651-O-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |
| 680-221651-P-2 DU | Duplicate | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 743661

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-221593-15 | T4-2HS | Total/NA | Water | 2320B-2011 | |
| 680-221593-16 | T4-3HB | Total/NA | Water | 2320B-2011 | |
| 680-221593-17 | T4-3HS | Total/NA | Water | 2320B-2011 | |
| 680-221593-18 | T4-4HB | Total/NA | Water | 2320B-2011 | |
| 680-221593-19 | T4-4HS | Total/NA | Water | 2320B-2011 | |
| 680-221593-20 | BG-2HT | Total/NA | Water | 2320B-2011 | |
| 680-221593-21 | DUP-1 | Total/NA | Water | 2320B-2011 | |
| 680-221593-22 | DUP-2 | Total/NA | Water | 2320B-2011 | |
| 680-221593-23 | FB-1 | Total/NA | Water | 2320B-2011 | |
| 680-221593-24 | EB-1 | Total/NA | Water | 2320B-2011 | |
| MB 680-743661/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-743661/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCSD 680-743661/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-221593-23 DU | FB-1 | Total/NA | Water | 2320B-2011 | |

Analysis Batch: 744061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 680-221861-1 | T1-4LT | Total/NA | Water | 2320B-2011 | |

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

General Chemistry (Continued)

Analysis Batch: 744061 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-221861-2 | T2-4LT | Total/NA | Water | 2320B-2011 | |
| 680-221861-3 | T3-4LT | Total/NA | Water | 2320B-2011 | |
| 680-221861-4 | T4-4L | Total/NA | Water | 2320B-2011 | |
| 680-221861-5 | BG-1LT | Total/NA | Water | 2320B-2011 | |
| 680-221861-6 | DUP-3 | Total/NA | Water | 2320B-2011 | |
| 680-221861-7 | FB-2 | Total/NA | Water | 2320B-2011 | |
| 680-221861-8 | EB-2 | Total/NA | Water | 2320B-2011 | |
| MB 680-744061/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-744061/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCSD 680-744061/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-221861-6 DU | DUP-3 | Total/NA | Water | 2320B-2011 | |

Field Service / Mobile Lab

Analysis Batch: 742126

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-221593-1 | T1-4HT | Total/NA | Water | Field Sampling | |
| 680-221593-2 | T1-4HTS | Total/NA | Water | Field Sampling | |
| 680-221593-3 | T2-1HT | Total/NA | Water | Field Sampling | |
| 680-221593-4 | T2-2HT | Total/NA | Water | Field Sampling | |
| 680-221593-5 | T2-2HTS | Total/NA | Water | Field Sampling | |
| 680-221593-6 | T2-3HT | Total/NA | Water | Field Sampling | |
| 680-221593-7 | T2-3HTS | Total/NA | Water | Field Sampling | |
| 680-221593-8 | T2-4HT | Total/NA | Water | Field Sampling | |
| 680-221593-9 | T2-4HTS | Total/NA | Water | Field Sampling | |
| 680-221593-10 | T3-4HT | Total/NA | Water | Field Sampling | |
| 680-221593-11 | T3-4HTS | Total/NA | Water | Field Sampling | |
| 680-221593-12 | T4-1HB | Total/NA | Water | Field Sampling | |
| 680-221593-13 | T4-1HS | Total/NA | Water | Field Sampling | |
| 680-221593-14 | T4-2HB | Total/NA | Water | Field Sampling | |
| 680-221593-15 | T4-2HS | Total/NA | Water | Field Sampling | |
| 680-221593-16 | T4-3HB | Total/NA | Water | Field Sampling | |
| 680-221593-17 | T4-3HS | Total/NA | Water | Field Sampling | |
| 680-221593-18 | T4-4HB | Total/NA | Water | Field Sampling | |
| 680-221593-19 | T4-4HS | Total/NA | Water | Field Sampling | |
| 680-221593-20 | BG-2HT | Total/NA | Water | Field Sampling | |

Analysis Batch: 743581

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-221861-1 | T1-4LT | Total/NA | Water | Field Sampling | |
| 680-221861-2 | T2-4LT | Total/NA | Water | Field Sampling | |
| 680-221861-3 | T3-4LT | Total/NA | Water | Field Sampling | |
| 680-221861-4 | T4-4L | Total/NA | Water | Field Sampling | |
| 680-221861-5 | BG-1LT | Total/NA | Water | Field Sampling | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T1-4HT

Date Collected: 09/22/22 09:49

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 744183 | 10/08/22 02:59 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 20:51 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:01 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742597 | 09/27/22 22:26 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:49 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T1-4HTS

Date Collected: 09/22/22 09:43

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 18:18 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 17:11 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 20:54 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:04 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 17:05 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:43 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-1HT

Date Collected: 09/22/22 08:40

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 18:56 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-1HT
Date Collected: 09/22/22 08:40
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 17:49 | UI | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 20:57 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:07 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 18:03 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 08:40 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-2HT
Date Collected: 09/22/22 08:50
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 19:09 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 18:01 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:00 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:10 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 17:43 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 08:50 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-2HTS
Date Collected: 09/22/22 08:44
Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 19:22 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 18:14 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-2HTS

Lab Sample ID: 680-221593-5

Date Collected: 09/22/22 08:44

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:03 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:13 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 17:24 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 08:44 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-3HT

Lab Sample ID: 680-221593-6

Date Collected: 09/22/22 09:05

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 19:34 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 18:27 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:06 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:16 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 18:13 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:05 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-3HTS

Lab Sample ID: 680-221593-7

Date Collected: 09/22/22 09:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 19:47 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 18:39 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-3HTS

Lab Sample ID: 680-221593-7

Date Collected: 09/22/22 09:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:34 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:20 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 17:53 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:00 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-4HT

Lab Sample ID: 680-221593-8

Date Collected: 09/22/22 09:35

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 20:00 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | | 500 | 5 mL | 5 mL | 744574 | 10/11/22 12:03 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:37 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:23 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 17:33 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742396 | 09/27/22 12:02 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:35 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-4HTS

Lab Sample ID: 680-221593-9

Date Collected: 09/22/22 09:30

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 20:12 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 19:05 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-4HTS

Lab Sample ID: 680-221593-9

Date Collected: 09/22/22 09:30

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:40 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:26 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 18:23 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:30 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T3-4HT

Lab Sample ID: 680-221593-10

Date Collected: 09/22/22 09:22

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 20:25 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 19:17 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 21:43 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594691 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595577 | 10/07/22 22:47 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 18:43 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:22 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T3-4HTS

Lab Sample ID: 680-221593-11

Date Collected: 09/22/22 09:17

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 20:38 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744417 | 10/10/22 19:30 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T3-4HTS

Lab Sample ID: 680-221593-11

Date Collected: 09/22/22 09:17

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 17:18 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 18:33 | PG | EET SAV |
| | Instrument ID: MANTECH 2 | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 09:17 | T1C | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Client Sample ID: T4-1HB

Lab Sample ID: 680-221593-12

Date Collected: 09/22/22 07:20

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|--------------------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 21:28 | AF | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 20:33 | UI | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 17:58 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 14:27 | BAW | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 19:44 | PG | EET SAV |
| | Instrument ID: MANTECH 2 | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 07:20 | T1C | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Client Sample ID: T4-1HS

Lab Sample ID: 680-221593-13

Date Collected: 09/22/22 07:12

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|-----------------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 22:06 | AF | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 21:11 | UI | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:01 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-1HS

Date Collected: 09/22/22 07:12

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-13

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 14:30 | BAW | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 19:34 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 07:12 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T4-2HB

Date Collected: 09/22/22 07:36

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-14

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 22:19 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 21:24 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:04 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 14:33 | BAW | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 742777 | 09/28/22 19:14 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 07:36 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T4-2HS

Date Collected: 09/22/22 07:30

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-15

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 22:31 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 21:36 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:07 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-2HS

Lab Sample ID: 680-221593-15

Date Collected: 09/22/22 07:30

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 14:36 | BAW | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 15:27 | PG | EET SAV |
| | Instrument ID: MANTECH 2 | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 07:30 | T1C | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Client Sample ID: T4-3HB

Lab Sample ID: 680-221593-16

Date Collected: 09/22/22 07:50

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|--------------------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 22:44 | AF | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 21:49 | UI | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:10 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 15:23 | BAW | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 15:07 | PG | EET SAV |
| | Instrument ID: MANTECH 2 | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 07:50 | T1C | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Client Sample ID: T4-3HS

Lab Sample ID: 680-221593-17

Date Collected: 09/22/22 07:43

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|-----------------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 22:57 | AF | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 22:02 | UI | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:13 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-3HS

Date Collected: 09/22/22 07:43

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-17

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 15:42 | BAW | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 15:36 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 07:43 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T4-4HB

Date Collected: 09/22/22 08:08

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-18

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 23:09 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 22:14 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:16 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 15:51 | BAW | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 15:57 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 08:08 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T4-4HS

Date Collected: 09/22/22 08:00

Date Received: 09/23/22 10:40

Lab Sample ID: 680-221593-19

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 23:22 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 22:27 | UI | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:19 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-4HS

Lab Sample ID: 680-221593-19

Date Collected: 09/22/22 08:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|--------------------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 15:54 | BAW | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 15:17 | PG | EET SAV |
| | Instrument ID: MANTECH 2 | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 08:00 | T1C | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Client Sample ID: BG-2HT

Lab Sample ID: 680-221593-20

Date Collected: 09/22/22 08:23

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|--------------------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 23:35 | AF | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 22:40 | UI | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594928 | 10/03/22 18:47 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594692 | 10/02/22 11:35 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 15:57 | BAW | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 15:46 | PG | EET SAV |
| | Instrument ID: MANTECH 2 | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 742126 | 09/22/22 08:23 | T1C | EET SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

Client Sample ID: DUP-1

Lab Sample ID: 680-221593-21

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|-----------------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744246 | 10/08/22 23:47 | AF | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 22:52 | UI | EET SAV |
| | Instrument ID: CICK | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594519 | 09/29/22 21:51 | NTH | EET PEN |
| | Instrument ID: Athena | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: DUP-1

Lab Sample ID: 680-221593-21

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 16:10 | BAW | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 16:07 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: DUP-2

Lab Sample ID: 680-221593-22

Date Collected: 09/22/22 00:00

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 40 | 5 mL | 5 mL | 744247 | 10/09/22 01:54 | AF | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total/NA | Analysis | 300.0-1993 R2.1 | DL | 100 | 5 mL | 5 mL | 744497 | 10/10/22 23:30 | UI | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594519 | 09/29/22 22:06 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 500 | | | 595819 | 10/10/22 16:13 | BAW | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 16:16 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: FB-1

Lab Sample ID: 680-221593-23

Date Collected: 09/22/22 10:30

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744247 | 10/09/22 01:16 | AF | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594519 | 09/29/22 22:09 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 50 | | | 595819 | 10/10/22 16:16 | BAW | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 14:45 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: EB-1

Lab Sample ID: 680-221593-24

Date Collected: 09/22/22 10:25

Matrix: Water

Date Received: 09/23/22 10:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 744247 | 10/09/22 02:07 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 594519 | 09/29/22 22:37 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 594103 | 09/27/22 16:07 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 50 | | | 595819 | 10/10/22 16:34 | BAW | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 743661 | 10/04/22 14:56 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742611 | 09/28/22 12:20 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T1-4LT

Lab Sample ID: 680-221861-1

Date Collected: 09/28/22 07:59

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 200 | 5 mL | 5 mL | 745161 | 10/14/22 15:38 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 25 | | | 597203 | 10/21/22 01:19 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597436 | 10/21/22 23:24 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597672 | 10/24/22 15:45 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 744061 | 10/06/22 22:07 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 743581 | 09/28/22 07:59 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T2-4LT

Lab Sample ID: 680-221861-2

Date Collected: 09/28/22 08:07

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 200 | 5 mL | 5 mL | 745161 | 10/14/22 15:50 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T2-4LT
Date Collected: 09/28/22 08:07
Date Received: 09/29/22 12:40

Lab Sample ID: 680-221861-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 25 | | | 597203 | 10/21/22 01:22 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597436 | 10/21/22 23:59 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597672 | 10/24/22 15:48 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 744061 | 10/06/22 22:27 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 743581 | 09/28/22 08:07 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T3-4LT
Date Collected: 09/28/22 08:15
Date Received: 09/29/22 12:40

Lab Sample ID: 680-221861-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 200 | 5 mL | 5 mL | 745161 | 10/14/22 10:34 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 25 | | | 597203 | 10/21/22 01:25 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597436 | 10/22/22 00:02 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597672 | 10/24/22 16:17 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 744061 | 10/06/22 22:17 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 743581 | 09/28/22 08:15 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: T4-4L

Lab Sample ID: 680-221861-4

Date Collected: 09/27/22 17:35

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 200 | 5 mL | 5 mL | 745161 | 10/14/22 10:47 | AF | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 25 | | | 597203 | 10/21/22 01:28 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 250 | | | 597436 | 10/22/22 00:05 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 250 | | | 597672 | 10/24/22 16:20 | NTH | EET PEN |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 744061 | 10/06/22 21:57 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 1 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 743581 | 09/28/22 17:35 | T1C | EET SAV |

Client Sample ID: BG-1LT

Lab Sample ID: 680-221861-5

Date Collected: 09/28/22 07:49

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 Instrument ID: CICK | | 200 | 5 mL | 5 mL | 745161 | 10/14/22 10:59 | AF | EET SAV |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 25 | | | 597203 | 10/21/22 01:31 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 250 | | | 597436 | 10/22/22 00:08 | NTH | EET PEN |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B Instrument ID: Athena | | 250 | | | 597672 | 10/24/22 16:23 | NTH | EET PEN |
| Total/NA | Analysis | 2320B-2011 Instrument ID: MANTECH 2 | | 1 | | | 744061 | 10/06/22 23:37 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 Instrument ID: NOEQUIP | | 1 | 1 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 743581 | 09/28/22 07:49 | T1C | EET SAV |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: DUP-3

Lab Sample ID: 680-221861-6

Date Collected: 09/28/22 00:00

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 200 | 5 mL | 5 mL | 745161 | 10/14/22 11:12 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 25 | | | 597203 | 10/21/22 01:35 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597436 | 10/22/22 00:11 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 250 | | | 597672 | 10/24/22 16:26 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 744061 | 10/06/22 23:18 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-2

Lab Sample ID: 680-221861-7

Date Collected: 09/28/22 08:50

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 745161 | 10/14/22 11:25 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 25 | | | 597203 | 10/21/22 01:38 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 597436 | 10/22/22 00:14 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 597672 | 10/24/22 16:29 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 744061 | 10/06/22 22:33 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-2

Lab Sample ID: 680-221861-8

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 745161 | 10/14/22 11:37 | AF | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Client Sample ID: EB-2

Lab Sample ID: 680-221861-8

Date Collected: 09/28/22 09:00

Matrix: Water

Date Received: 09/29/22 12:40

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 25 | | | 597203 | 10/21/22 01:41 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 597436 | 10/22/22 00:18 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 596445 | 10/15/22 12:10 | JL | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 597672 | 10/24/22 16:33 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 744061 | 10/06/22 22:38 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 742802 | 09/29/22 11:31 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

* Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

Laboratory: Eurofins Savannah

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Georgia | State | E87052 | 06-30-23 |

Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-22 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

Method Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-221593-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 300.0-1993 R2.1 | Anions, Ion Chromatography | MCAWW | EET SAV |
| 6020B | Metals (ICP/MS) | SW846 | EET PEN |
| 2320B-2011 | Alkalinity, Total | SM | EET SAV |
| 2540C-2011 | Total Dissolved Solids (Dried at 180 °C) | SM | EET SAV |
| Field Sampling | Field Sampling | EPA | EET SAV |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET PEN |

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Chain of Custody Record

ATTENTION

Sampler: **Meredith Duncan, Will Leaker** Lab PM: **Fuller, David**
 Client Contact: **Kristen Jurinko** Phone: **470 - 895 - 0650** E-Mail: **David Fuller@eurofins.com**
 Company: **Southern Company** PWSID: _____ State of Origin: **GA** Page 1 of 4
 Address: **241 Ralph McGill Blvd SE B10185** City: **Atlanta**
 State, Zip: **GA, 30308** Compliance Project: Yes No
 Lab Project #: **68027841** Lab PO #: **GPC82130-0001**
 Email: **KNJURINK@SOUTHERNCO.COM** Project #: _____
 Project Name: **Plant McManus Surface Water** SOW#: _____
 Site: _____

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Solid, Organic/Oil, etc.) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 602B - Metals - Select List - SAV | 300_ORGM_2BD - Chloride Fluoride Sulfate | 2320B - Alkalinity, Total, Carb/Bicarb | 6020B - Metals - Select List - PIT | 2540C - Solids, Total Dissolved (TDS) | Total Number of Containers | Special Instructions/Note: | Analysis Requested | |
|-----------------------|-------------|-------------|---------------------------------|---|-----------------------------------|----------------------------|-----------------------------------|--|--|------------------------------------|---------------------------------------|----------------------------|----------------------------|-------------------------------------|--------------------------|
| | | | | | | | | | | | | | | A - HCL | M - Hexane |
| T1-4HT | 9/22/22 | 0949 | G | Water | X | X | X | X | X | X | X | X | PH | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T1-4HTS | 9/22/22 | 0943 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-1HT | 9/22/22 | 0840 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-2HT | 9/22/22 | 0850 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-2HTS | 9/22/22 | 0844 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-3HT | 9/22/22 | 0905 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-3HTS | 9/22/22 | 0900 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-4HT | 9/22/22 | 0935 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T2-4HTS | 9/22/22 | 0930 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T3-4HT | 9/22/22 | 0922 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| T3-4HTS | 9/22/22 | 0917 | G | Water | X | X | X | X | X | X | X | X | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify) _____

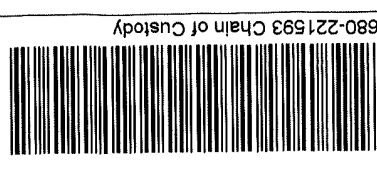
Sample Disposal (A fee may be assessed if samples are retained longer than 1 n.)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

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

Relinquished by: **William Leaker** Date/Time: **9/23/22 0910** Company: **Resolute**
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: **1.9/1.8 1.3/1.2 2.9/2.3**



Chain of Custody Record

244- ATLANTA

| Client Information | | Sampler: Meredith Duncan, Will Laaker | | Carrier Tracking No(s): | | COC No: 680-136977-50656.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Client Contact: Kristen Jurinko | | Phone: 470-895-0650 | | Lab P/N: Fuller, David | | Page: Page 2 of 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: Southern Company | | Address: 241 Ralph McGill Blvd SE B10185 | | State of Origin: GA | | Job #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Atlanta | | State Zip: GA, 30308 | | Analysis Requested <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>6020B - Metals - Select List - SAV</th> <th>300 ORGM_2BD - Chloride Fluoride Sulfate</th> <th>2320B - Alkalinity, Total, Carb/Bicarb</th> <th>6020B - Metals - Select List - PIT</th> <th>2540C - Solids, Total Dissolved (TDS)</th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>5</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>6</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>85</td> </tr> </tbody> </table> | | | | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020B - Metals - Select List - SAV | 300 ORGM_2BD - Chloride Fluoride Sulfate | 2320B - Alkalinity, Total, Carb/Bicarb | 6020B - Metals - Select List - PIT | 2540C - Solids, Total Dissolved (TDS) | Total Number of Containers | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Lab Project #: 68027841 | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Solid, Other/Soil)</th> <th>Preservation Code:</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>T4-1HB</td> <td>9/22/22</td> <td>0720</td> <td>G</td> <td>Water</td> <td></td> <td>PH</td> </tr> <tr> <td>T4-1HS</td> <td>9/22/22</td> <td>0712</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T4-2HB</td> <td>9/22/22</td> <td>0736</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T4-2HS</td> <td>9/22/22</td> <td>0730</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T4-3HB</td> <td>9/22/22</td> <td>0750</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T4-3HS</td> <td>9/22/22</td> <td>0743</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T4-4HB</td> <td>9/22/22</td> <td>0808</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T4-4HS</td> <td>9/22/22</td> <td>0800</td> <td>G</td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T1-4LT</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T2-4LT</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>T3-4LT</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> </tr> </tbody> </table> | | | | Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other/Soil) | Preservation Code: | Special Instructions/Note: | T4-1HB | 9/22/22 | 0720 | G | Water | | PH | T4-1HS | 9/22/22 | 0712 | G | Water | | | T4-2HB | 9/22/22 | 0736 | G | Water | | | T4-2HS | 9/22/22 | 0730 | G | Water | | | T4-3HB | 9/22/22 | 0750 | G | Water | | | T4-3HS | 9/22/22 | 0743 | G | Water | | | T4-4HB | 9/22/22 | 0808 | G | Water | | | T4-4HS | 9/22/22 | 0800 | G | Water | | | T1-4LT | | | | Water | | | T2-4LT | | | | Water | | | T3-4LT | | | | Water | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | | | | | Matrix (Water, Solid, Other/Soil) | Preservation Code: | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-1HB | 9/22/22 | 0720 | G | | | | | Water | | PH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-1HS | 9/22/22 | 0712 | G | | | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-2HB | 9/22/22 | 0736 | G | | | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-2HS | 9/22/22 | 0730 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-3HB | 9/22/22 | 0750 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-3HS | 9/22/22 | 0743 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-4HB | 9/22/22 | 0808 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T4-4HS | 9/22/22 | 0800 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T1-4LT | | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T2-4LT | | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T3-4LT | | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Plant McManus Surface Water | | Site: | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Preservation Codes:</th> </tr> </thead> <tbody> <tr><td>M - Hexane</td></tr> <tr><td>N - None</td></tr> <tr><td>O - AsNaO2</td></tr> <tr><td>P - Na2O4S</td></tr> <tr><td>Q - Na2SO3</td></tr> <tr><td>R - Na2SO4</td></tr> <tr><td>S - H2SO4</td></tr> <tr><td>T - TSP Dodecahydrate</td></tr> <tr><td>U - Acetone</td></tr> <tr><td>V - MCAA</td></tr> <tr><td>W - pH 4-5</td></tr> <tr><td>Y - Trizma</td></tr> <tr><td>Z - other (specify)</td></tr> <tr><td>Other</td></tr> </tbody> </table> | | | | Preservation Codes: | M - Hexane | N - None | O - AsNaO2 | P - Na2O4S | Q - Na2SO3 | R - Na2SO4 | S - H2SO4 | T - TSP Dodecahydrate | U - Acetone | V - MCAA | W - pH 4-5 | Y - Trizma | Z - other (specify) | Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| N - None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O - AsNaO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P - Na2O4S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q - Na2SO3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R - Na2SO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S - H2SO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T - TSP Dodecahydrate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| V - MCAA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W - pH 4-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y - Trizma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z - other (specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9/22/22 | 0712 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0736 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0730 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0750 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0743 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0808 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0800 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9/22/22 | 0730 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0750 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0743 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0808 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9/22/22 | 0730 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9/22/22 | 0743 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0808 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site: | | SSOW#: | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Solid, Other/Soil)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr> <td>9/22/22</td> <td>0720</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0712</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0736</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0730</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0750</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0743</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0808</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>9/22/22</td> <td>0800</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Water</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Water</td> <td></td> </tr> </tbody> </table> | | | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other/Soil) | Preservation Code: | 9/22/22 | 0720 | G | Water | | 9/22/22 | 0712 | G | Water | | 9/22/22 | 0736 | G | Water | | 9/22/22 | 0730 | G | Water | | 9/22/22 | 0750 | G | Water | | 9/22/22 | 0743 | G | Water | | 9/22/22 | 0808 | G | Water | | 9/22/22 | 0800 | G | Water | | | | | Water | | | | | Water | | | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other/Soil) | | | | | Preservation Code: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0720 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0712 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0736 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0730 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0750 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0743 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0808 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9/22/22 | 0800 | G | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

244-ATLANTA

| Client Information | | Sampler: Mercedith Duncan, Will Locker | | Lab P#: Fuller, David | POC No: 680-136977-50656.3 | | | | | | | |
|--|-------------|---|------------------------------|---|-----------------------------------|----------------------------|------------------------------------|--|--|------------------------------------|---------------------------------------|--------------------|
| Client Contact: Kristen Jurnko | | Phone: 470-395-0650 | | E-Mail: David Fuller@et.eurofins.com | Page: Page 3 of 4 | | | | | | | |
| Company: Southern Company | | PWSID: | | State of Origin: GA | | | | | | | | |
| Address: 241 Ralph McGill Blvd SE B10185 | | Due Date Requested: | | Job #: | | | | | | | | |
| City: Atlanta | | TAT Requested (days): | | Preservation Codes: | | | | | | | | |
| State, Zip: GA, 30308 | | Compliance Project: Δ Yes Δ No | | A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other | | | | | | | | |
| Phone: 404-506-7116(Tel) | | Lab Project #: 68027841 | | Total Number of Containers: X | | | | | | | | |
| Email: KNJURINK@SOUTHERNCO.COM | | Lab PO #: GFC82130-0001 | | Special Instructions/Note: PH | | | | | | | | |
| Project Name: Plant McManus Surface Water | | Project #: | | Special Instructions/Note: | | | | | | | | |
| Site: | | SSOW#: | | Special Instructions/Note: | | | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Solid, Oil, etc.) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020B - Metals - Select List - SAV | 300_ORGM_2BD - Chloride Fluoride Sulfate | 2320B - Alkalinity, Total, Carb/Bicarb | 6020B - Metals - Select List - PIT | 2540C - Solids, Total Dissolved (TDS) | Analysis Requested |
| T4-4L | | | | Water | X | X | X | X | X | X | X | |
| BG-1LT | | | | Water | | | | | | | | |
| BG-2HT | 9/22/22 | 0823 | G | Water | | | X | X | X | X | X | |
| DUP-1 | 9/22/22 | - | G | Water | | | X | X | X | X | X | |
| DUP-2 | 9/22/22 | - | G | Water | | | X | X | X | X | X | |
| DUP-3 | | | | Water | | | | | | | | |
| FB-1 | 9/22/22 | 1030 | G | Water | | | X | X | X | X | X | |
| EB-1 | 9/22/22 | 1025 | G | Water | | | X | X | X | X | X | |
| Extra 1 | | | | Water | | | | | | | | |
| Extra 2 | | | | Water | | | | | | | | |
| Extra 3 | | | | Water | | | | | | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify) | | | | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ | | | | | | | | | | | | |
| Relinquished by: William Locker Date/Time: 9/23/22 0910 Company: Resolute | | | | | | | | | | | | |
| Relinquished by: _____ Date/Time: _____ Company: _____ | | | | | | | | | | | | |
| Relinquished by: _____ Date/Time: _____ Company: _____ | | | | | | | | | | | | |
| Custody Seals Intact: Δ Yes Δ No Custody Seal No. _____ | | | | | | | | | | | | |
| Cooler Temperature(s) °C and Other Remarks: _____ | | | | | | | | | | | | |



Chain of Custody Record



| | | | | | | | |
|---|--|---|--|--|--|--|--|
| <p>Client Information Client Contact: Kristen Jurniko Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: KNJURINK@SOUTHERNCO.COM Project Name: Plant McManus Surface Water Site:</p> | | <p>Sampler Will Locker, Meredith Duncan Phone: 470-895-0650 PWSID:</p> | | <p>Lab PII: Fuller, David E-Mail: David.Fuller@et.eurofins.us.com</p> | | <p>244 ATLANTA Page: Page 4 of 4 Job #:</p> | |
| <p>Analysis Requested</p> | | <p>Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No Lab Project #: 68027841 Lab PO #: GPC82130-0001 Project #: SSOW#:</p> | | <p>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 300_ORFM_2BD - Chloride Fluoride Sulfate N 6020B - Metals - Select List - SAV D 2320B - Alkalinity, Total, Carb/Bicarb N 6020B - Metals - Select List - PT D 2540C - Solids, Total Dissolved (TDS) N</p> | | <p>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)</p> | |
| <p>Sample Identification Extra 4</p> | | <p>Sample Date: <input checked="" type="checkbox"/> Sample Time: <input checked="" type="checkbox"/> Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Composite, Other) Preservation Code:</p> | | <p>Special Instructions/Note: pH</p> | | <p>Total Number of Containers</p> | |
| <p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify)</p> | | <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> | | <p>Special Instructions/QC Requirements:</p> | | <p>Method of Shipment</p> | |
| <p>Empty Kit Relinquished by: Relinquished by: William Locker Relinquished by: Relinquished by:</p> | | <p>Received by: Received by: Received by:</p> | | <p>Date/Time: 9/23/22 0910 Date/Time: Date/Time:</p> | | <p>Date/Time: 9/24/22 9:10 Date/Time: 9-23-22 1040 Date/Time:</p> | |
| <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> | | <p>Custody Seal No.:</p> | | <p>Cooler Temperature(s) °C and Other Remarks:</p> | | <p>Company: Resolute Company: Company:</p> | |




Chain of Custody Record

WINN-DIXIE
COC # 1111111111
680-138977-50656.1

| | | | |
|--|--|--|--|
| Client Information Client Contact: Kristen Jurinko Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116 (Tel) Email: KJURINK@SOUTHERNCO.COM Project Name: Plant McManus Surface Water Site: | | Lab P.I.: Fuller, David E-Mail: David.Fuller@et.eurofins.com State of Origin: GA Page: Page 1 of 4 Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Lab Project #: 68027841 Lab PO #: GPC82130-0001 Project #: SSOW#: | | Analysis Requested 300_ORGM_28D - Chloride Fluoride Sulfate 6020B - Metals - Select Lat - SAV 2220B - Alkalinity, Total, Carb/Bicarb 6020B - Metals - Select Lat - PIT 2540C - Solids, Total Dissolved (TDS) | |
| Sample Identification Sample Date: Sample Time: Sample Type (C=Comp, G=grab): Matrix (Water, Solid, Other): Preservation Code: | | 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) | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) | | Special Instructions/Note: PH 680-221861 Chain of Custody | |
| Empty Kit Relinquished by: Relinquished by: William Lacker Relinquished by: Relinquished by: | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: | |
| Date/Time: 9/23/22 10:30 Date/Time: 9/28/22 10:20 Date/Time: 9/28/22 12:40 | | Method of Shipment: Received by: Received by: Received by: | |
| Custody Seals Intact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | Cooler Temperature(s) °C and Other Remarks: 3.1/3.0 | |



| | | | | | |
|---|--|--|--|---|--|
| Client Information | | Sampler: Meredith Dunton, Will Locker | | Carrier Tracking No(s): 680-138977-50656.2 | |
| Client Contact: Kristen Jurinko | | Lab P/N: Fuller, David | | Page: Page 2 of 4 | |
| Company: Southern Company | | Phone: 470-345-0650 | | Job #: | |
| Address: 241 Ralph McGill Blvd SE B10185 | | State of Origin: GA | | E-Mail: David.Fuller@et.eurofins.com | |
| City: Atlanta | | Due Date Requested: | | Analysis Requested: | |
| State, Zip: GA, 30308 | | TAT Requested (days): | | 300_ORGM_28D - Chloride Fluoride Sulfate | |
| Phone: 404-506-7116(Tel) | | Compliance Project: Δ Yes Δ No | | 6020B - Metals - Select List - SAV | |
| Lab Project #: 68027841 | | Lab Project #: 68027841 | | 2220B - Alkalinity, Total, Carbonate | |
| Lab PO #: GPC82130-0001 | | Project #: | | 6020B - Metals - Select List - PIT | |
| Project Name: Plant McManus Surface Water | | SSOW#: | | 2540C - Solids, Total Dissolved (TDS) | |
| Site: | | Matrix (W=Water, S=Solid, O=Oil, A=Air) | | Total Number of Containers: 5 | |
| Sample Identification | | Sample Date | | Sample Time | |
| T4-1HB | | | | Water | |
| T4-1HS | | | | Water | |
| T4-2HB | | | | Water | |
| T4-2HS | | | | Water | |
| T4-3HB | | | | Water | |
| T4-3HS | | | | Water | |
| T4-4HB | | | | Water | |
| T4-4HS | | | | Water | |
| T1-4LT | | 9/23/22 | | 0759 G | |
| T2-4LT | | 9/23/22 | | 0807 G | |
| T3-4LT | | 9/23/22 | | 0815 G | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months | |
| Deliverable Requested I, II, III, IV, Other (specify) | | Empty Kit Relinquished by | | Special Instructions/QC Requirements: | |
| Relinquished by William Locker | | Date/Time: 9/28/22 1030 | | Received by  | |
| Relinquished by | | Date/Time: | | Received by oap | |
| Relinquished by | | Date/Time: | | Received by | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: 3-1/3.0 | |



Chain of Custody Record

244-ATLANTA

Client Information
 Client Contact: Kristen Jurinko
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7116(Tel)
 Email: KNJURINK@SOUTHERNCO.COM
 Project Name: Plant McManus Surface Water
 Site:

Sampler: Meredith Danson, Will Lasker
 Phone: 470-895-0650
 Lab PII: Fuller, David
 E-Mail: David.Fuller@et.eurofins.com
 State of Origin: GA
 Page: Page 3 of 4
 Job #: 680-138977-50656.3

Due Date Requested:
 TAT Requested (days):
 Compliance Project: Yes No
 Lab Project #: 68027841
 Lab PO #: GPC82130-0001
 Project #:
 SSOW#:
 PWSID:
 Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Soil, Gas, etc.) | Preservation Code: | Analysis Requested | | | | | | | | | | Total Number of Containers | Special Instructions/Note: | | |
|-----------------------|-------------|-------------|------------------------------|---------------------------------|--------------------|-------------------------------------|-------------------------------------|--|--|-------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|-------------------------------------|-------------------------------------|--|-----------------------------------|
| | | | | | | Perform MS/MSD (Yes or No) | 602B - Metals - Select List - SAV | 300_ORGM_28D - Chloride Fluoride Sulfate | 2320B - Alkalinity, Total, Carb/Bicarb | 6020B - Metals - Select List - PT | 2540C - Solids, Total Dissolved (TDS) | Field Filtered Sample (Yes or No) | Field Filtered Sample (Yes or No) | 6020B - Metals - Select List - SAV | 300_ORGM_28D - Chloride Fluoride Sulfate | | | 2320B - Alkalinity, Total, Carb/Bicarb | 6020B - Metals - Select List - PT |
| T4-4L | 9/27/22 | 1735 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5 | PH |
| BG-1LT | 9/28/22 | 0749 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5 | 5 9 5 |
| BG-2HT | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| DUP-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| DUP-2 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| DUP-3 | 9/28/22 | | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5 | |
| FB-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| EB-1 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Extra-1 FB-2 | 9/28/22 | 0850 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5 | |
| Extra-2 EB-2 | 9/28/22 | 0900 | G | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 5 | |
| Extra 3 | | | | Water | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: William Lasker Date/Time: 9/28/22 1030
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record



244 ATLANTA

| | | | |
|--|--|--|--|
| Client Information Client Contact: Kristen Jurinko Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: KJURINK@SOUTHERNCO.COM Project Name: Plant McManus Surface Water Site: | | Lab Pk#: Fuller, David E-Mail: David.Fuller@et.eurofins.com State of Origin: GA Page: Page 4 of 4 Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Lab Project #: 68027841 Lab PO #: GPC82130-0001 Project #: S50W#: | | Analysis Requested 6020B - Metals - Select List - SAV 300_ORGM_2BD - Chloride Fluoride Sulfate 2220B - Alkalinity, Total, Carb/Bicarb 6020B - Metals - Select List - PT 2540C - Solids, Total Dissolved (TDS) | |
| Sample Identification Extra 4 | | Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers <input checked="" type="checkbox"/> Special Instructions/Note: pH | |
| Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Organic/Oil) | | Preservation Code: Water Water Water Water Water Water Water Water Water Water | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | |
| Empty Kit Relinquished by Relinquished by: William Lacker Relinquished by: Relinquished by: | | Method of Shipment: Date/Time: 9/28/22 10:30 Date/Time: 9/29 12:40 Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: | |





Chain of Custody Record

| Client Information (Sub Contract Lab) | | Lab PM: Fuller, David | Carrier Tracking No(s): 680-709401.1 | | | | | | |
|---|------------------------|--|---|--|-----------------------------------|-------------------------|---|----------------------------|----------------------------|
| Client Contact: Shipping/Receiving | | E-Mail: David.Fuller@et.eurofins.com | State of Origin: Georgia | | | | | | |
| Company: Eurofins Environment Testing Southeast, | | Accreditations Required (See note): State - Georgia | | | | | | | |
| Address: 3355 McLemore Drive, | | Due Date Requested: 10/6/2022 | | | | | | | |
| City: Pensacola | TAT Requested (days): | | | | | | | | |
| State, Zip: FL, 32514 | PO #: | | | | | | | | |
| Phone: 850-474-1001(Tel) 850-478-2671(Fax) | WO #: | | | | | | | | |
| Email: | Project #: 68027841 | | | | | | | | |
| Plant Name: Plant McManus | SSOW#: | | | | | | | | |
| Site: | | | | | | | | | |
| 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) | Form MS/MSD (Yes or No) | 6020B/3005A Select 7 Surface Water Metals | Total Number of Containers | Special Instructions/Note: |
| T1-4HT (680-221593-1) | 9/22/22 | 09:49 Eastern | | Water | X | X | | 1 | |
| T1-4HTS (680-221593-2) | 9/22/22 | 09:43 Eastern | | Water | X | X | | 1 | |
| T2-1HT (680-221593-3) | 9/22/22 | 08:40 Eastern | | Water | X | X | | 1 | |
| T2-2HT (680-221593-4) | 9/22/22 | 08:50 Eastern | | Water | X | X | | 1 | |
| T2-2HTS (680-221593-5) | 9/22/22 | 08:44 Eastern | | Water | X | X | | 1 | |
| T2-3HT (680-221593-6) | 9/22/22 | 09:05 Eastern | | Water | X | X | | 1 | |
| T2-3HTS (680-221593-7) | 9/22/22 | 09:00 Eastern | | Water | X | X | | 1 | |
| T2-4HT (680-221593-8) | 9/22/22 | 09:35 Eastern | | Water | X | X | | 1 | |
| T2-4HTS (680-221593-9) | 9/22/22 | 09:30 Eastern | | Water | X | X | | 1 | |
| <p>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/test/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 Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.</p> | | | | | | | | | |
| Possible Hazard Identification | | | | | | | | | |
| <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | |
| Primary Deliverable Rank: 2 | | | | | | | | | |
| Empty or Relinquished by: _____ Date: _____ | | | | | | | | | |
| Relinquished by: _____ Date/Time: 9/22/2022 10:09 | | | | | | | | | |
| Relinquished by: _____ Date/Time: _____ | | | | | | | | | |
| Relinquished by: _____ Date/Time: _____ | | | | | | | | | |
| Custody Seals Intact: _____ Custody Seal No.: _____ | | | | | | | | | |
| Cooler Temperature(s) °C and Other Remarks: 3,40c 1.7cc JRL | | | | | | | | | |



Chain of Custody Record

| | | | | | | |
|---|----------------------------------|--|--|--|--|--------------------|
| Client Information (Sub Contract Lab) | | Lab PM: Fuller, David | Carrier Tracking No(s): 680-709401.2 | | | |
| Shipping/Receiving | | E-Mail: David.Fuller@eurofins.com | Page: Page 2 of 3 | | | |
| Company: Eurofins Environment Testing Southeast, | | State of Origin: Georgia | Job #: 680-221593-1 | | | |
| Address: 3355 McLemore Drive, | | Accreditations Required (See note): State - Georgia | Preservation Codes: 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: Pensacola | Due Date Requested: 10/6/2022 | Analysis Requested | | | | |
| State, Zip: FL, 32514 | TAT Requested (days): | | | | | |
| Phone: 850-474-1001(Tel) 850-478-2671(Fax) | PO #: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of Containers | | |
| Email: Plant McManus | WO #: | 6020B/3005A Select 7 Surface Water Metals | 6020B/3005A Select 7 Surface Water Metals | | | |
| Project Name: Plant McManus | Project #: 68027841 | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) 817-Tissue, A=Air | Matrix (W=water, S=solid, O=waste/oil) | Preservation Code: |
| Site: | SSOW#: | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) 817-Tissue, A=Air | Matrix (W=water, S=solid, O=waste/oil) | Preservation Code: |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) 817-Tissue, A=Air | Matrix (W=water, S=solid, O=waste/oil) | Preservation Code: |
| T3-4HT (680-221593-10) | | 9/22/22 | 09:22 Eastern | Water | Water | |
| T3-4HTS (680-221593-11) | | 9/22/22 | 09:17 Eastern | Water | Water | |
| T4-1HB (680-221593-12) | | 9/22/22 | 07:20 Eastern | Water | Water | |
| T4-1HS (680-221593-13) | | 9/22/22 | 07:12 Eastern | Water | Water | |
| T4-2HB (680-221593-14) | | 9/22/22 | 07:36 Eastern | Water | Water | |
| T4-2HS (680-221593-15) | | 9/22/22 | 07:30 Eastern | Water | Water | |
| T4-3HB (680-221593-16) | | 9/22/22 | 07:50 Eastern | Water | Water | |
| T4-3HS (680-221593-17) | | 9/22/22 | 07:43 Eastern | Water | Water | |
| T4-4HB (680-221593-18) | | 9/22/22 | 08:08 Eastern | Water | Water | |

Special Instructions/Note:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Requisitioned by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: 9/23/22 18:59 Company _____

Relinquished by: _____ Date/Time: 9-24-22 8:30 Company _____

Relinquished by: _____ Date/Time: _____ Company _____

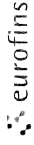
Cooler Temperature(s) °C and Other Remarks: 3.4°C 1.7°C JRS

Custody Seal No.: _____

Ver: 06/08/2021



Chain of Custody Record



| | | | | | |
|--|--|-------------------------------------|--|-------------------------|--------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: |
| Shipping/Receiving | | Phone: | Fuller, David | State of Origin: | 680-709401.3 |
| Company: | | E-Mail: | David.Fuller@eurofins.com | Page: | Page 3 of 3 |
| Eurofins Environment Testing Southeast, | | Accreditations Required (See note): | | Job #: | 680-221593-1 |
| Address: | | Due Date Requested: | Preservation Codes: | | |
| 3355 McLemore Drive, | | 10/6/2022 | A - HCL M - Hexane N - None O - ASNAC2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | | |
| City: | | TAT Requested (days): | Analysis Requested | | |
| Pensacola | | | 6020B/3005A Select 7 Surface Water Metals | | |
| State, Zip: | | PO #: | Perform MS/MSD (Yes or No) | | |
| FL, 32514 | | | Field Filtered Sample (Yes or No) | | |
| Phone: | | WO #: | Total Number of Containers | | |
| 850-474-1001(Tel) 850-478-2671(Fax) | | | X | | |
| Email: | | Project #: | Special Instructions/Note: | | |
| | | 68027841 | | | |
| Project Name: | | SSOW#: | | | |
| Plant McManus | | | | | |
| Site: | | | | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, or wastewater) | Preservation Code: (BT-Tissue, A-Al) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of Containers | Special Instructions/Note: |
|--|-------------|---------------|------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------------------|----------------------------|----------------------------|
| T4-4HS (680-221593-19) | 9/22/22 | 08:00 Eastern | Water | Water | X | X | | 1 | |
| BG-2HT (680-221593-20) | 9/22/22 | 08:23 Eastern | Water | Water | X | X | | 1 | |
| DUP-1 (680-221593-21) | 9/22/22 | Eastern | Water | Water | X | X | | 1 | |
| DUP-2 (680-221593-22) | 9/22/22 | Eastern | Water | Water | X | X | | 1 | |
| FB-1 (680-221593-23) | 9/22/22 | 10:30 Eastern | Water | Water | X | X | | 1 | |
| EB-1 (680-221593-24) | 9/22/22 | 10:25 Eastern | Water | Water | X | X | | 1 | |

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

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Received by: _____ Date/Time: 9-24-22 9:11 AM Company
 Received by: _____ Date/Time: _____ Company
 Received by: _____ Date/Time: _____ Company

Cooler Temperature(s) °C and Other Remarks: 7.4°C 1.7°C JRG





Environment Testing
merica

ORIGIN ID:SAVA (912) 354-
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROCHE AVE

DATE: 23SEP22
20.00 LB MAN
18389/CAFE3616

SAVANNAH, GA 31404
UNITED STATES US

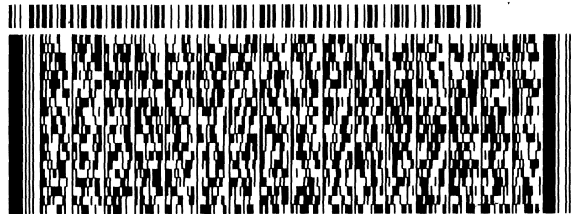
DER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE

PENSACOLA FL 32514

(850) 474-1001
PO: YES

REF: S680-139387



FedEx
Express



1 of 2

TRK# 1864 9070 5330

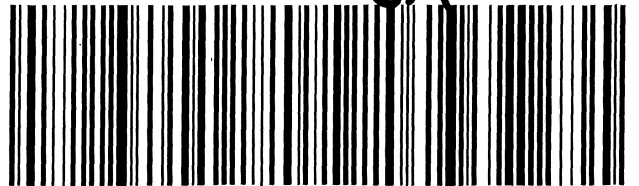
0201
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO PNSA

1.702
TRG
JK

32514
FL-US BFM



Part # 159469-434 RIT2 EXP 02/21

57711/FAC/434
J2202020202202222



Environment Testing
TestAmerica

Part # 159169-434 RTT2 EXP 02/21

RT 687

12:00

A
5340
09.24

ST 0

SHIP ID: SAVA (912) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROCHE AVE

SHIP DATE: 23SEP22
ACTWGT: 20.00 LB MAN
CAD: 0148389/CAFE3616

SAVANNAH, GA 31404
UNITED STATES US

BILL SENDER

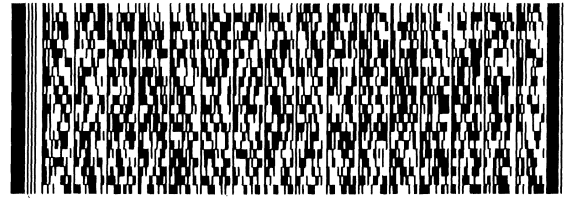
TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHE
3355 MCLEMORE DRIVE

PENSACOLA FL 32514

3.4%
ZRB JTM

(850) 474-1001
PO: YES

REF: S680-139387



FedEx
Express



5771/FRC/429

J222020220328010Y

2 of 2

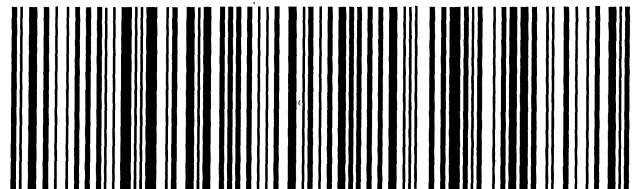
MPS# 1864 9070 5340

Mstr# 1864 9070 5330

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO PNSA

32514
FL-US BFM



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221593-1

Login Number: 221593

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 | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221593-1

Login Number: 221593

List Number: 2

Creator: Whitley, Adrian

List Source: Eurofins Pensacola

List Creation: 09/24/22 11:16 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. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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 | 3.4, 1.7°C IR8 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221593-1

Login Number: 221861

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-221593-1

Login Number: 221861

List Number: 2

Creator: DeKlerk, Michaela

List Source: Eurofins Pensacola

List Creation: 10/05/22 10:12 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. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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 | 3.1°C IR9 |
| 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 | |

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 12/30/2022 9:41:17 AM

JOB DESCRIPTION

Plant McManus Surface Water

JOB NUMBER

680-228110-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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

Authorization



Generated
12/30/2022 9:41:17 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| ^2 | Calibration Blank (ICB and/or CCB) is outside acceptance limits. |
| ^3+ | Reporting Limit Check Standard is outside acceptance limits, high biased |
| 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. |
| B | Compound was found in the blank and sample. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|---|
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both. |

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
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 680-228110-1 | T1-1HT | Water | 12/20/22 07:51 | 12/21/22 09:45 |
| 680-228110-2 | T1-2HT | Water | 12/20/22 08:01 | 12/21/22 09:45 |
| 680-228110-3 | T1-2HTS | Water | 12/20/22 07:56 | 12/21/22 09:45 |
| 680-228110-4 | T1-3HT | Water | 12/20/22 08:18 | 12/21/22 09:45 |
| 680-228110-5 | T1-3HTS | Water | 12/20/22 08:12 | 12/21/22 09:45 |
| 680-228110-6 | T3-1HT | Water | 12/20/22 07:07 | 12/21/22 09:45 |
| 680-228110-7 | T3-2HT | Water | 12/20/22 07:18 | 12/21/22 09:45 |
| 680-228110-8 | T3-2HTS | Water | 12/20/22 07:12 | 12/21/22 09:45 |
| 680-228110-9 | T3-3HT | Water | 12/20/22 07:38 | 12/21/22 09:45 |
| 680-228110-10 | T3-3HTS | Water | 12/20/22 07:30 | 12/21/22 09:45 |
| 680-228110-11 | DUP-4 | Water | 12/20/22 00:00 | 12/21/22 09:45 |
| 680-228110-12 | FB-3 | Water | 12/20/22 09:10 | 12/21/22 09:45 |
| 680-228110-13 | EB-3 | Water | 12/20/22 09:15 | 12/21/22 09:45 |

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Case Narrative

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Job ID: 680-228110-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-228110-1

Receipt

The samples were received on 12/21/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 2.9° C.

HPLC/IC

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

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 400-606565 recovered above the upper control limit for Boron and Lithium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 6020B: The ICV for batch 400-606565 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RPDs for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly.

Method 6020B: The continuing calibration blank (CCB) for analytical batch 400-606565 contained Sodium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: T1-3HTS (680-228110-5), T3-1HT (680-228110-6), T3-2HTS (680-228110-8), T3-3HT (680-228110-9), T3-3HTS (680-228110-10) and DUP-4 (680-228110-11). Elevated reporting limits (RLs) are provided.

Method 6020B: The continuing calibration blank (CCB) for analytical batch 400-606563 contained Lithium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020B: The continuing calibration verification (CCV) associated with batch 400-606565 recovered above the upper control limit for Boron and Lithium. The LCS associated with this CCV were within limits for the affected analytes; therefore, the data have been reported. The associated LCS is impacted: (CCV 400-606565/57) and (LCS 400-606254/2-A ^5).

Method 6020B: The serial dilution performed for the following sample associated with batch 400-606565 was outside control limits: (680-228110-B-1-A SD ^25)

Method 6020B: The post digestion spike % recovery for Boron associated with batch 400-606565 was outside of control limits. The associated sample is: (680-228110-B-1-A PDS ^5).

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-606254 and analytical batch 400-606565 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.

Method 6020B: The continuing calibration blank (CCB) for analytical batch 400-606700 contained Sodium above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: T3-2HT (680-228110-7). Elevated reporting limits (RLs) are provided.

Method 6020B: The continuing calibration verification (CCV) associated with batch 400-606565 recovered above the upper control limit for Boron and Lithium. The method blank associated with this CCV were below the reporting limit for the affected analytes, and the laboratory control spike associated with the CCV was within the acceptable limits; therefore, the data have been reported.

Case Narrative

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Job ID: 680-228110-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

Method 6020B: The CRI associated with batch 400-606700 recovered above the upper control limit for Potassium. The samples associated with this CRI were non-detects for the affected analytes; therefore, the data have been reported.

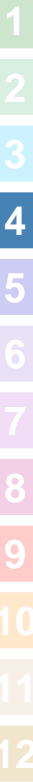
Method 6020B: The instrument blank for analytical batch 400-606700 contained Sodium greater than the reporting limit (RL) and were not reanalyzed because the associated non blank samples were 10x greater than the instrument blanks. NOTE: Field sample blank detections were significantly less than those "non-blank" hits and only slightly above the RL. The data have been qualified and reported.

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

General Chemistry

Method SM 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-756570 was outside control limits: (680-228018-F-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-1HT

Lab Sample ID: 680-228110-1

Date Collected: 12/20/22 07:51

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 16000 | | 250 | 50 | mg/L | | | 12/28/22 10:17 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 10:17 | 250 |
| Sulfate | 2000 | | 250 | 100 | mg/L | | | 12/28/22 10:17 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0020 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 15:10 | 5 |
| Boron | 3.6 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:14 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 15:10 | 5 |
| Lithium | 0.14 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 12:58 | 10 |
| Magnesium | 1000 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 15:10 | 5 |
| Potassium | 320 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 15:10 | 5 |
| Sodium | 8300 | | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/28/22 15:10 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 05:24 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:24 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:24 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 24000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.56 | | | | SU | | | 12/20/22 07:51 | 1 |

Client Sample ID: T1-2HT

Lab Sample ID: 680-228110-2

Date Collected: 12/20/22 08:01

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 16000 | | 250 | 50 | mg/L | | | 12/28/22 12:29 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 12:29 | 250 |
| Sulfate | 2100 | | 250 | 100 | mg/L | | | 12/28/22 12:29 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0019 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 15:25 | 5 |
| Boron | 3.8 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:17 | 10 |
| Calcium | 370 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 15:25 | 5 |
| Lithium | 0.15 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 13:02 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 15:25 | 5 |
| Potassium | 340 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 15:25 | 5 |
| Sodium | 8800 | | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/28/22 15:25 | 5 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-2HT

Lab Sample ID: 680-228110-2

Date Collected: 12/20/22 08:01

Matrix: Water

Date Received: 12/21/22 09:45

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 05:05 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:05 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:05 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 27000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.55 | | | | SU | | | 12/20/22 08:01 | 1 |

Client Sample ID: T1-2HTS

Lab Sample ID: 680-228110-3

Date Collected: 12/20/22 07:56

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 18000 | | 250 | 50 | mg/L | | | 12/28/22 12:42 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 12:42 | 250 |
| Sulfate | 2300 | | 250 | 100 | mg/L | | | 12/28/22 12:42 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0021 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 15:28 | 5 |
| Boron | 3.7 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:20 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 15:28 | 5 |
| Lithium | 0.14 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 13:05 | 10 |
| Magnesium | 1000 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 15:28 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 15:28 | 5 |
| Sodium | 8500 | | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/28/22 15:28 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 05:15 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:15 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:15 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 24000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.57 | | | | SU | | | 12/20/22 07:56 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-3HT

Lab Sample ID: 680-228110-4

Date Collected: 12/20/22 08:18

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 29000 | | 250 | 50 | mg/L | | | 12/28/22 13:22 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 13:22 | 250 |
| Sulfate | 3900 | | 250 | 100 | mg/L | | | 12/28/22 13:22 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0025 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 15:31 | 5 |
| Boron | 4.0 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:23 | 10 |
| Calcium | 370 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 15:31 | 5 |
| Lithium | 0.14 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 13:08 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 15:31 | 5 |
| Potassium | 340 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 15:31 | 5 |
| Sodium | 8800 | | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/28/22 15:31 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 05:55 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:55 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 05:55 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 25000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.53 | | | | SU | | | 12/20/22 08:18 | 1 |

Client Sample ID: T1-3HTS

Lab Sample ID: 680-228110-5

Date Collected: 12/20/22 08:12

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 20000 | | 250 | 50 | mg/L | | | 12/28/22 13:35 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 13:35 | 250 |
| Sulfate | 2600 | | 250 | 100 | mg/L | | | 12/28/22 13:35 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0018 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:34 | 5 |
| Boron | 4.1 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:27 | 10 |
| Calcium | 380 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:34 | 5 |
| Lithium | 0.14 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 13:51 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:34 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:34 | 5 |
| Sodium | 9300 | ^2 | 50 | 32 | mg/L | | 12/27/22 12:40 | 12/28/22 17:33 | 1000 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-3HTS

Lab Sample ID: 680-228110-5

Date Collected: 12/20/22 08:12

Matrix: Water

Date Received: 12/21/22 09:45

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 06:54 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:54 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:54 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 23000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.54 | | | | SU | | | 12/20/22 08:12 | 1 |

Client Sample ID: T3-1HT

Lab Sample ID: 680-228110-6

Date Collected: 12/20/22 07:07

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 20000 | | 250 | 50 | mg/L | | | 12/28/22 13:48 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 13:48 | 250 |
| Sulfate | 2500 | | 250 | 100 | mg/L | | | 12/28/22 13:48 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0020 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:37 | 5 |
| Boron | 3.8 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:30 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:37 | 5 |
| Lithium | 0.14 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 13:54 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:37 | 5 |
| Potassium | 320 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:37 | 5 |
| Sodium | 8800 | ^2 | 50 | 32 | mg/L | | 12/27/22 12:40 | 12/28/22 17:36 | 1000 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 06:39 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:39 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:39 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 25000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.58 | | | | SU | | | 12/20/22 07:07 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T3-2HT

Lab Sample ID: 680-228110-7

Date Collected: 12/20/22 07:18

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 20000 | | 250 | 50 | mg/L | | | 12/28/22 14:01 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 14:01 | 250 |
| Sulfate | 2600 | | 250 | 100 | mg/L | | | 12/28/22 14:01 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0018 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:40 | 5 |
| Boron | 3.9 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:33 | 10 |
| Calcium | 370 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:40 | 5 |
| Lithium | 0.12 | | 0.10 | 0.098 | mg/L | | 12/27/22 12:40 | 12/29/22 12:55 | 100 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:40 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:40 | 5 |
| Sodium | 8400 | ^2 | 5.0 | 3.2 | mg/L | | 12/27/22 12:40 | 12/29/22 12:55 | 100 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 06:14 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:14 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:14 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 26000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.31 | | | | SU | | | 12/20/22 07:18 | 1 |

Client Sample ID: T3-2HTS

Lab Sample ID: 680-228110-8

Date Collected: 12/20/22 07:12

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 16000 | | 250 | 50 | mg/L | | | 12/28/22 14:14 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 14:14 | 250 |
| Sulfate | 2000 | | 250 | 100 | mg/L | | | 12/28/22 14:14 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0019 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:43 | 5 |
| Boron | 3.8 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:37 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:43 | 5 |
| Lithium | 0.13 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/29/22 13:57 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:43 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:43 | 5 |
| Sodium | 10000 | ^2 | 50 | 32 | mg/L | | 12/27/22 12:40 | 12/28/22 17:42 | 1000 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T3-2HTS

Lab Sample ID: 680-228110-8

Date Collected: 12/20/22 07:12

Matrix: Water

Date Received: 12/21/22 09:45

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 06:29 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:29 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:29 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 26000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.14 | | | | SU | | | 12/20/22 07:12 | 1 |

Client Sample ID: T3-3HT

Lab Sample ID: 680-228110-9

Date Collected: 12/20/22 07:38

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 23000 | | 250 | 50 | mg/L | | | 12/28/22 14:27 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 14:27 | 250 |
| Sulfate | 3100 | | 250 | 100 | mg/L | | | 12/28/22 14:27 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0020 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:47 | 5 |
| Boron | 4.0 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:53 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:47 | 5 |
| Lithium | 0.14 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/28/22 17:53 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:47 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:47 | 5 |
| Sodium | 24000 | ^2 | 50 | 32 | mg/L | | 12/27/22 12:40 | 12/28/22 17:45 | 1000 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 07:22 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 07:22 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 07:22 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 24000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.46 | | | | SU | | | 12/20/22 07:38 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T3-3HTS

Lab Sample ID: 680-228110-10

Date Collected: 12/20/22 07:30

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 16000 | | 250 | 50 | mg/L | | | 12/28/22 14:41 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 14:41 | 250 |
| Sulfate | 2100 | | 250 | 100 | mg/L | | | 12/28/22 14:41 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0023 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:50 | 5 |
| Boron | 3.8 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:56 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:50 | 5 |
| Lithium | 0.15 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/28/22 17:56 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:50 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:50 | 5 |
| Sodium | 9100 | ^2 | 50 | 32 | mg/L | | 12/27/22 12:40 | 12/28/22 17:48 | 1000 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 07:03 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 07:03 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 07:03 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 24000 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.39 | | | | SU | | | 12/20/22 07:30 | 1 |

Client Sample ID: DUP-4

Lab Sample ID: 680-228110-11

Date Collected: 12/20/22 00:00

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Chloride | 16000 | | 250 | 50 | mg/L | | | 12/28/22 14:54 | 250 |
| Fluoride | <10 | | 25 | 10 | mg/L | | | 12/28/22 14:54 | 250 |
| Sulfate | 2000 | | 250 | 100 | mg/L | | | 12/28/22 14:54 | 250 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.0021 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:53 | 5 |
| Boron | 3.8 | B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 17:59 | 10 |
| Calcium | 360 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:53 | 5 |
| Lithium | 0.15 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/28/22 17:59 | 10 |
| Magnesium | 1100 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:53 | 5 |
| Potassium | 330 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 16:53 | 5 |
| Sodium | 9400 | ^2 | 50 | 32 | mg/L | | 12/27/22 12:40 | 12/28/22 17:51 | 1000 |

Client Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: DUP-4

Lab Sample ID: 680-228110-11

Date Collected: 12/20/22 00:00

Matrix: Water

Date Received: 12/21/22 09:45

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | 130 | | 5.0 | 2.2 | mg/L | | | 12/23/22 07:13 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 130 | | 5.0 | 5.0 | mg/L | | | 12/23/22 07:13 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 07:13 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | 2500 | | 2000 | 2000 | mg/L | | | 12/22/22 14:22 | 1 |

Client Sample ID: FB-3

Lab Sample ID: 680-228110-12

Date Collected: 12/20/22 09:10

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 12/28/22 15:07 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 12/28/22 15:07 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 12/28/22 15:07 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:56 | 5 |
| Boron | 0.061 | J B | 0.10 | 0.0024 | mg/L | | 12/27/22 12:40 | 12/28/22 18:03 | 10 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:56 | 5 |
| Lithium | 0.019 | | 0.010 | 0.0098 | mg/L | | 12/27/22 12:40 | 12/28/22 18:03 | 10 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/29/22 12:48 | 5 |
| Potassium | <0.17 | ^3+ | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/29/22 12:48 | 5 |
| Sodium | 0.34 | ^2 | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/29/22 12:48 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 12/23/22 06:20 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:20 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:20 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 12/22/22 14:22 | 1 |

Client Sample ID: EB-3

Lab Sample ID: 680-228110-13

Date Collected: 12/20/22 09:15

Matrix: Water

Date Received: 12/21/22 09:45

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 12/28/22 15:46 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 12/28/22 15:46 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 12/28/22 15:46 | 1 |

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 16:59 | 5 |

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Client Sample Results

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: EB-3

Lab Sample ID: 680-228110-13

Date Collected: 12/20/22 09:15

Matrix: Water

Date Received: 12/21/22 09:45

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|---------------|------------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 0.0049 | J B | 0.050 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/29/22 12:45 | 5 |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 16:59 | 5 |
| Lithium | <0.0049 | | 0.0050 | 0.0049 | mg/L | | 12/27/22 12:40 | 12/29/22 12:45 | 5 |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 16:59 | 5 |
| Potassium | <0.17 | ^3+ | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/29/22 12:45 | 5 |
| Sodium | 0.25 | ^2 | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/29/22 12:45 | 5 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 (SM 2320B-2011) | <2.2 | | 5.0 | 2.2 | mg/L | | | 12/23/22 06:45 | 1 |
| Alkalinity, Bicarbonate (SM 2320B-2011) | 8.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:45 | 1 |
| Alkalinity, Carbonate (As CaCO3) (SM 2320B-2011) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 06:45 | 1 |
| Total Dissolved Solids (SM 2540C-2011) | <10 | | 10 | 10 | mg/L | | | 12/22/22 14:22 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-756996/2
Matrix: Water
Analysis Batch: 756996

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Chloride | <0.20 | | 1.0 | 0.20 | mg/L | | | 12/28/22 09:25 | 1 |
| Fluoride | <0.040 | | 0.10 | 0.040 | mg/L | | | 12/28/22 09:25 | 1 |
| Sulfate | <0.40 | | 1.0 | 0.40 | mg/L | | | 12/28/22 09:25 | 1 |

Lab Sample ID: LCS 680-756996/4
Matrix: Water
Analysis Batch: 756996

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Fluoride | 2.00 | 2.09 | | mg/L | | 104 | 90 - 110 |
| Sulfate | 10.0 | 10.3 | | mg/L | | 103 | 90 - 110 |

Lab Sample ID: LCSD 680-756996/5
Matrix: Water
Analysis Batch: 756996

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 |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| | | | | | | | | | |
| Fluoride | 2.00 | 2.07 | | mg/L | | 104 | 90 - 110 | 1 | 15 |
| Sulfate | 10.0 | 10.2 | | mg/L | | 102 | 90 - 110 | 1 | 15 |

Lab Sample ID: 680-227790-D-32 MS
Matrix: Water
Analysis Batch: 756996

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| | | | | | | | | | |
| Fluoride | <0.040 | | 2.00 | 2.06 | | mg/L | | 103 | 80 - 120 |
| Sulfate | <0.40 | | 10.0 | 10.2 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: 680-227790-D-32 MSD
Matrix: Water
Analysis Batch: 756996

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| | | | | | | | | | | | |
| Fluoride | <0.040 | | 2.00 | 2.04 | | mg/L | | 102 | 80 - 120 | 1 | 15 |
| Sulfate | <0.40 | | 10.0 | 10.0 | | mg/L | | 100 | 80 - 120 | 1 | 15 |

Lab Sample ID: 680-228110-12 MS
Matrix: Water
Analysis Batch: 756996

Client Sample ID: FB-3
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| | | | | | | | | | |
| Fluoride | <0.040 | | 2.00 | 2.16 | | mg/L | | 108 | 80 - 120 |
| Sulfate | <0.40 | | 10.0 | 10.6 | | mg/L | | 106 | 80 - 120 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-228110-12 MSD
Matrix: Water
Analysis Batch: 756996

Client Sample ID: FB-3
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Chloride | <0.20 | | 10.0 | 9.98 | | mg/L | | 100 | 80 - 120 | 1 | 15 |
| Fluoride | <0.040 | | 2.00 | 2.15 | | mg/L | | 107 | 80 - 120 | 1 | 15 |
| Sulfate | <0.40 | | 10.0 | 10.7 | | mg/L | | 107 | 80 - 120 | 0 | 15 |

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 400-606254/1-A ^5
Matrix: Water
Analysis Batch: 606565

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 606254

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|-----------|---------|-----------|--------|--------|------|---|----------------|----------------|-----|-----|
| | Result | Qualifier | | | | | | | | |
| Arsenic | <0.0012 | | 0.0013 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |
| Boron | 0.00785 | J ^+ | 0.050 | 0.0012 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |
| Calcium | <0.13 | | 0.25 | 0.13 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |
| Lithium | <0.0049 | ^+ | 0.0050 | 0.0049 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |
| Magnesium | <0.041 | | 0.13 | 0.041 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |
| Potassium | <0.17 | | 0.25 | 0.17 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |
| Sodium | <0.16 | | 0.25 | 0.16 | mg/L | | 12/27/22 12:40 | 12/28/22 15:03 | 5 | |

Lab Sample ID: LCS 400-606254/2-A ^5
Matrix: Water
Analysis Batch: 606565

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 606254

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|-----------|--------|--------|-----|------|---|------|----------|
| | | | | | | | Added |
| Arsenic | 0.0500 | 0.0499 | | mg/L | | 100 | 80 - 120 |
| Boron | 0.100 | 0.113 | ^+ | mg/L | | 113 | 80 - 120 |
| Calcium | 5.00 | 5.22 | | mg/L | | 104 | 80 - 120 |
| Lithium | 0.0500 | 0.0535 | ^+ | mg/L | | 107 | 80 - 120 |
| Magnesium | 5.00 | 4.98 | | mg/L | | 100 | 80 - 120 |
| Potassium | 5.00 | 4.78 | | mg/L | | 96 | 80 - 120 |
| Sodium | 5.00 | 4.81 | | mg/L | | 96 | 80 - 120 |

Lab Sample ID: 680-228110-1 MS
Matrix: Water
Analysis Batch: 606565

Client Sample ID: T1-1HT
Prep Type: Total Recoverable
Prep Batch: 606254

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-----------|--------|-----------|--------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Arsenic | 0.0020 | | 0.0500 | 0.0529 | | mg/L | | 102 | 75 - 125 |
| Boron | 3.7 | B ^+ | 0.100 | 4.18 | 4 ^+ | mg/L | | 469 | 75 - 125 |
| Calcium | 360 | | 5.00 | 367 | 4 | mg/L | | 213 | 75 - 125 |
| Lithium | 0.15 | F1 ^+ ^2 | 0.0500 | 0.232 | F1 ^+ | mg/L | | 172 | 75 - 125 |
| Magnesium | 1000 | | 5.00 | 1050 | 4 | mg/L | | 658 | 75 - 125 |
| Potassium | 320 | | 5.00 | 333 | 4 | mg/L | | 223 | 75 - 125 |
| Sodium | 8300 | | 5.00 | 8440 | 4 | mg/L | | 3686 | 75 - 125 |

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

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

Lab Sample ID: 680-228110-1 MSD
Matrix: Water
Analysis Batch: 606565

Client Sample ID: T1-1HT
Prep Type: Total Recoverable
Prep Batch: 606254

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | RPD |
|-----------|--------|-----------|--------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | Limit |
| Arsenic | 0.0020 | | 0.0500 | 0.0538 | | mg/L | | 104 | 75 - 125 | 2 | 20 |
| Boron | 3.7 | B ^+ | 0.100 | 4.24 | 4 ^+ | mg/L | | 532 | 75 - 125 | 1 | 20 |
| Calcium | 360 | | 5.00 | 362 | 4 | mg/L | | 126 | 75 - 125 | 1 | 20 |
| Lithium | 0.15 | F1 ^+ ^2 | 0.0500 | 0.238 | F1 ^+ | mg/L | | 183 | 75 - 125 | 2 | 20 |
| Magnesium | 1000 | | 5.00 | 1040 | 4 | mg/L | | 490 | 75 - 125 | 1 | 20 |
| Potassium | 320 | | 5.00 | 333 | 4 | mg/L | | 217 | 75 - 125 | 0 | 20 |
| Sodium | 8300 | | 5.00 | 8410 | 4 | mg/L | | 3116 | 75 - 125 | 0 | 20 |

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-756843/4
Matrix: Water
Analysis Batch: 756843

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Alkalinity as CaCO3 | <2.2 | | 5.0 | 2.2 | mg/L | | | 12/23/22 03:39 | 1 |
| Alkalinity, Bicarbonate | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 03:39 | 1 |
| Alkalinity, Carbonate (As CaCO3) | <5.0 | | 5.0 | 5.0 | mg/L | | | 12/23/22 03:39 | 1 |

Lab Sample ID: LCS 680-756843/6
Matrix: Water
Analysis Batch: 756843

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

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec |
|---------------------------|-------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | Limits |
| Total Alkalinity as CaCO3 | 250 | 243 | | mg/L | | 97 | 90 - 112 |

Lab Sample ID: LCSD 680-756843/31
Matrix: Water
Analysis Batch: 756843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD | LCSD | Unit | D | %Rec | %Rec | RPD | Limit |
|---------------------------|-------------|--------|-----------|------|---|------|----------|-----|-------|
| | | Result | Qualifier | | | | Limits | RPD | Limit |
| Total Alkalinity as CaCO3 | 250 | 253 | | mg/L | | 101 | 90 - 112 | 4 | 30 |

Lab Sample ID: 680-228110-4 DU
Matrix: Water
Analysis Batch: 756843

Client Sample ID: T1-3HT
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|----------------------------------|--------|-----------|--------|-----------|------|---|-----|--------|-------|
| | Result | Qualifier | Result | Qualifier | | | | Limits | Limit |
| Total Alkalinity as CaCO3 | 130 | | 133 | | mg/L | | 2 | 2 | 30 |
| Alkalinity, Bicarbonate | 130 | | 133 | | mg/L | | 2 | 2 | 30 |
| Alkalinity, Carbonate (As CaCO3) | <5.0 | | <5.0 | | mg/L | | NC | NC | 30 |

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-756570/1
Matrix: Water
Analysis Batch: 756570

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 12/22/22 14:22 | 1 |

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QC Sample Results

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-756570/2
Matrix: Water
Analysis Batch: 756570

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 2340 | 2390 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: LCSD 680-756570/3
Matrix: Water
Analysis Batch: 756570

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 |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 2340 | 2370 | | mg/L | | 101 | 80 - 120 | 1 | 25 |

Lab Sample ID: 680-228018-F-1 DU
Matrix: Water
Analysis Batch: 756570

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 210 | | 196 | F5 | mg/L | | 8 | 5 |

Lab Sample ID: 680-228018-F-2 DU
Matrix: Water
Analysis Batch: 756570

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 130 | | 124 | | mg/L | | 3 | 5 |

QC Association Summary

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

HPLC/IC

Analysis Batch: 756996

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 680-228110-1 | T1-1HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-2 | T1-2HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-3 | T1-2HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-4 | T1-3HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-5 | T1-3HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-6 | T3-1HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-7 | T3-2HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-8 | T3-2HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-9 | T3-3HT | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-10 | T3-3HTS | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-11 | DUP-4 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-12 | FB-3 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-13 | EB-3 | Total/NA | Water | 300.0-1993 R2.1 | |
| MB 680-756996/2 | Method Blank | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-756996/4 | Lab Control Sample | Total/NA | Water | 300.0-1993 R2.1 | |
| LCS 680-756996/5 | Lab Control Sample Dup | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-227790-D-32 MS | Matrix Spike | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-227790-D-32 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-12 MS | FB-3 | Total/NA | Water | 300.0-1993 R2.1 | |
| 680-228110-12 MSD | FB-3 | Total/NA | Water | 300.0-1993 R2.1 | |

Metals

Prep Batch: 606254

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-228110-1 | T1-1HT | Total Recoverable | Water | 3005A | |
| 680-228110-2 | T1-2HT | Total Recoverable | Water | 3005A | |
| 680-228110-3 | T1-2HTS | Total Recoverable | Water | 3005A | |
| 680-228110-4 | T1-3HT | Total Recoverable | Water | 3005A | |
| 680-228110-5 | T1-3HTS | Total Recoverable | Water | 3005A | |
| 680-228110-6 | T3-1HT | Total Recoverable | Water | 3005A | |
| 680-228110-7 | T3-2HT | Total Recoverable | Water | 3005A | |
| 680-228110-8 | T3-2HTS | Total Recoverable | Water | 3005A | |
| 680-228110-9 | T3-3HT | Total Recoverable | Water | 3005A | |
| 680-228110-10 | T3-3HTS | Total Recoverable | Water | 3005A | |
| 680-228110-11 | DUP-4 | Total Recoverable | Water | 3005A | |
| 680-228110-12 | FB-3 | Total Recoverable | Water | 3005A | |
| 680-228110-13 | EB-3 | Total Recoverable | Water | 3005A | |
| MB 400-606254/1-A ^5 | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 400-606254/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 680-228110-1 MS | T1-1HT | Total Recoverable | Water | 3005A | |
| 680-228110-1 MSD | T1-1HT | Total Recoverable | Water | 3005A | |

Analysis Batch: 606563

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-228110-1 | T1-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-2 | T1-2HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-3 | T1-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-4 | T1-3HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-5 | T1-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-6 | T3-1HT | Total Recoverable | Water | 6020B | 606254 |

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QC Association Summary

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Metals (Continued)

Analysis Batch: 606563 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-228110-7 | T3-2HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-8 | T3-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-9 | T3-3HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-10 | T3-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-11 | DUP-4 | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-12 | FB-3 | Total Recoverable | Water | 6020B | 606254 |

Analysis Batch: 606565

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-------------------|--------|--------|------------|
| 680-228110-1 | T1-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-2 | T1-2HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-3 | T1-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-4 | T1-3HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-5 | T1-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-5 | T1-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-6 | T3-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-6 | T3-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-7 | T3-2HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-8 | T3-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-8 | T3-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-9 | T3-3HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-9 | T3-3HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-10 | T3-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-10 | T3-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-11 | DUP-4 | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-11 | DUP-4 | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-12 | FB-3 | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-13 | EB-3 | Total Recoverable | Water | 6020B | 606254 |
| MB 400-606254/1-A ^5 | Method Blank | Total Recoverable | Water | 6020B | 606254 |
| LCS 400-606254/2-A ^5 | Lab Control Sample | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-1 MS | T1-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-1 MSD | T1-1HT | Total Recoverable | Water | 6020B | 606254 |

Analysis Batch: 606700

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-228110-1 | T1-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-2 | T1-2HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-3 | T1-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-4 | T1-3HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-5 | T1-3HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-6 | T3-1HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-7 | T3-2HT | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-8 | T3-2HTS | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-12 | FB-3 | Total Recoverable | Water | 6020B | 606254 |
| 680-228110-13 | EB-3 | Total Recoverable | Water | 6020B | 606254 |

General Chemistry

Analysis Batch: 756570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 680-228110-1 | T1-1HT | Total/NA | Water | 2540C-2011 | |

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QC Association Summary

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

General Chemistry (Continued)

Analysis Batch: 756570 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-228110-2 | T1-2HT | Total/NA | Water | 2540C-2011 | |
| 680-228110-3 | T1-2HTS | Total/NA | Water | 2540C-2011 | |
| 680-228110-4 | T1-3HT | Total/NA | Water | 2540C-2011 | |
| 680-228110-5 | T1-3HTS | Total/NA | Water | 2540C-2011 | |
| 680-228110-6 | T3-1HT | Total/NA | Water | 2540C-2011 | |
| 680-228110-7 | T3-2HT | Total/NA | Water | 2540C-2011 | |
| 680-228110-8 | T3-2HTS | Total/NA | Water | 2540C-2011 | |
| 680-228110-9 | T3-3HT | Total/NA | Water | 2540C-2011 | |
| 680-228110-10 | T3-3HTS | Total/NA | Water | 2540C-2011 | |
| 680-228110-11 | DUP-4 | Total/NA | Water | 2540C-2011 | |
| 680-228110-12 | FB-3 | Total/NA | Water | 2540C-2011 | |
| 680-228110-13 | EB-3 | Total/NA | Water | 2540C-2011 | |
| MB 680-756570/1 | Method Blank | Total/NA | Water | 2540C-2011 | |
| LCS 680-756570/2 | Lab Control Sample | Total/NA | Water | 2540C-2011 | |
| LCS 680-756570/3 | Lab Control Sample Dup | Total/NA | Water | 2540C-2011 | |
| 680-228018-F-1 DU | Duplicate | Total/NA | Water | 2540C-2011 | |
| 680-228018-F-2 DU | Duplicate | Total/NA | Water | 2540C-2011 | |

Analysis Batch: 756843

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-228110-1 | T1-1HT | Total/NA | Water | 2320B-2011 | |
| 680-228110-2 | T1-2HT | Total/NA | Water | 2320B-2011 | |
| 680-228110-3 | T1-2HTS | Total/NA | Water | 2320B-2011 | |
| 680-228110-4 | T1-3HT | Total/NA | Water | 2320B-2011 | |
| 680-228110-5 | T1-3HTS | Total/NA | Water | 2320B-2011 | |
| 680-228110-6 | T3-1HT | Total/NA | Water | 2320B-2011 | |
| 680-228110-7 | T3-2HT | Total/NA | Water | 2320B-2011 | |
| 680-228110-8 | T3-2HTS | Total/NA | Water | 2320B-2011 | |
| 680-228110-9 | T3-3HT | Total/NA | Water | 2320B-2011 | |
| 680-228110-10 | T3-3HTS | Total/NA | Water | 2320B-2011 | |
| 680-228110-11 | DUP-4 | Total/NA | Water | 2320B-2011 | |
| 680-228110-12 | FB-3 | Total/NA | Water | 2320B-2011 | |
| 680-228110-13 | EB-3 | Total/NA | Water | 2320B-2011 | |
| MB 680-756843/4 | Method Blank | Total/NA | Water | 2320B-2011 | |
| LCS 680-756843/6 | Lab Control Sample | Total/NA | Water | 2320B-2011 | |
| LCS 680-756843/31 | Lab Control Sample Dup | Total/NA | Water | 2320B-2011 | |
| 680-228110-4 DU | T1-3HT | Total/NA | Water | 2320B-2011 | |

Field Service / Mobile Lab

Analysis Batch: 756450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-228110-1 | T1-1HT | Total/NA | Water | Field Sampling | |
| 680-228110-2 | T1-2HT | Total/NA | Water | Field Sampling | |
| 680-228110-3 | T1-2HTS | Total/NA | Water | Field Sampling | |
| 680-228110-4 | T1-3HT | Total/NA | Water | Field Sampling | |
| 680-228110-5 | T1-3HTS | Total/NA | Water | Field Sampling | |
| 680-228110-6 | T3-1HT | Total/NA | Water | Field Sampling | |
| 680-228110-7 | T3-2HT | Total/NA | Water | Field Sampling | |
| 680-228110-8 | T3-2HTS | Total/NA | Water | Field Sampling | |
| 680-228110-9 | T3-3HT | Total/NA | Water | Field Sampling | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 756450 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-228110-10 | T3-3HTS | Total/NA | Water | Field Sampling | |

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-1HT
Date Collected: 12/20/22 07:51
Date Received: 12/21/22 09:45

Lab Sample ID: 680-228110-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 10:17 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 15:10 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:14 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 12:58 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 05:24 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:51 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T1-2HT
Date Collected: 12/20/22 08:01
Date Received: 12/21/22 09:45

Lab Sample ID: 680-228110-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 12:29 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 15:25 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:17 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 13:02 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 05:05 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 08:01 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-2HTS

Lab Sample ID: 680-228110-3

Date Collected: 12/20/22 07:56

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 12:42 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 15:28 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:20 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 13:05 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 05:15 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:56 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T1-3HT

Lab Sample ID: 680-228110-4

Date Collected: 12/20/22 08:18

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 13:22 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 15:31 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:23 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 13:08 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 05:55 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 08:18 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T1-3HTS

Lab Sample ID: 680-228110-5

Date Collected: 12/20/22 08:12

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 13:35 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:34 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 1000 | | | 606565 | 12/28/22 17:33 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:27 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 13:51 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 06:54 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 08:12 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T3-1HT

Lab Sample ID: 680-228110-6

Date Collected: 12/20/22 07:07

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 13:48 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:37 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 1000 | | | 606565 | 12/28/22 17:36 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:30 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 13:54 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 06:39 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T3-1HT

Date Collected: 12/20/22 07:07

Date Received: 12/21/22 09:45

Lab Sample ID: 680-228110-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:07 | T1C | EET SAV |

Client Sample ID: T3-2HT

Date Collected: 12/20/22 07:18

Date Received: 12/21/22 09:45

Lab Sample ID: 680-228110-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 14:01 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:40 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:33 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 100 | | | 606700 | 12/29/22 12:55 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 06:14 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:18 | T1C | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: T3-2HTS

Date Collected: 12/20/22 07:12

Date Received: 12/21/22 09:45

Lab Sample ID: 680-228110-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 14:14 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:43 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 1000 | | | 606565 | 12/28/22 17:42 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:37 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606700 | 12/29/22 13:57 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T3-2HTS

Lab Sample ID: 680-228110-8

Date Collected: 12/20/22 07:12

Matrix: Water

Date Received: 12/21/22 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 | 2320B-2011 | | 1 | | | 756843 | 12/23/22 06:29 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:12 | T1C | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: T3-3HT

Lab Sample ID: 680-228110-9

Date Collected: 12/20/22 07:38

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 14:27 | OK | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:47 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 1000 | | | 606565 | 12/28/22 17:45 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:53 | NTH | EET PEN |
| | | Instrument ID: Goofy | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 07:22 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:38 | T1C | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: T3-3HTS

Lab Sample ID: 680-228110-10

Date Collected: 12/20/22 07:30

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 14:41 | OK | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:50 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 1000 | | | 606565 | 12/28/22 17:48 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:56 | NTH | EET PEN |
| | | Instrument ID: Goofy | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: T3-3HTS

Lab Sample ID: 680-228110-10

Date Collected: 12/20/22 07:30

Matrix: Water

Date Received: 12/21/22 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 | 2320B-2011 | | 1 | | | 756843 | 12/23/22 07:03 | PG | EET SAV |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 756450 | 12/20/22 07:30 | T1C | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: DUP-4

Lab Sample ID: 680-228110-11

Date Collected: 12/20/22 00:00

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 250 | 5 mL | 5 mL | 756996 | 12/28/22 14:54 | OK | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:53 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 1000 | | | 606565 | 12/28/22 17:51 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 17:59 | NTH | EET PEN |
| | | Instrument ID: Goofy | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 07:13 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 1 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: FB-3

Lab Sample ID: 680-228110-12

Date Collected: 12/20/22 09:10

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 756996 | 12/28/22 15:07 | OK | EET SAV |
| | | Instrument ID: CICK | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:56 | NTH | EET PEN |
| | | Instrument ID: Athena | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 10 | | | 606563 | 12/28/22 18:03 | NTH | EET PEN |
| | | Instrument ID: Goofy | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606700 | 12/29/22 12:48 | NTH | EET PEN |
| | | Instrument ID: Goofy | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 06:20 | PG | EET SAV |
| | | Instrument ID: MANTECH 2 | | | | | | | | |

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Client Sample ID: FB-3

Lab Sample ID: 680-228110-12

Date Collected: 12/20/22 09:10

Matrix: Water

Date Received: 12/21/22 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 | 2540C-2011 | | 1 | 200 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |

Client Sample ID: EB-3

Lab Sample ID: 680-228110-13

Date Collected: 12/20/22 09:15

Matrix: Water

Date Received: 12/21/22 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 | 300.0-1993 R2.1 | | 1 | 5 mL | 5 mL | 756996 | 12/28/22 15:46 | OK | EET SAV |
| Instrument ID: CICK | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606565 | 12/28/22 16:59 | NTH | EET PEN |
| Instrument ID: Athena | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 606254 | 12/27/22 12:40 | KWN | EET PEN |
| Total Recoverable | Analysis | 6020B | | 5 | | | 606700 | 12/29/22 12:45 | NTH | EET PEN |
| Instrument ID: Goofy | | | | | | | | | | |
| Total/NA | Analysis | 2320B-2011 | | 1 | | | 756843 | 12/23/22 06:45 | PG | EET SAV |
| Instrument ID: MANTECH 2 | | | | | | | | | | |
| Total/NA | Analysis | 2540C-2011 | | 1 | 200 mL | 200 mL | 756570 | 12/22/22 14:22 | PG | EET SAV |
| Instrument ID: NOEQUIP | | | | | | | | | | |

* Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

Laboratory: Eurofins Savannah

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Georgia | State | E87052 | 06-30-23 |

Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-23 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

Method Summary

Client: Southern Company
Project/Site: Plant McManus Surface Water

Job ID: 680-228110-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 300.0-1993 R2.1 | Anions, Ion Chromatography | MCAWW | EET SAV |
| 6020B | Metals (ICP/MS) | SW846 | EET PEN |
| 2320B-2011 | Alkalinity, Total | SM | EET SAV |
| 2540C-2011 | Total Dissolved Solids (Dried at 180 °C) | SM | EET SAV |
| Field Sampling | Field Sampling | EPA | EET SAV |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET PEN |

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

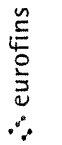
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Chain of Custody Record



Environmental Testing
 America

| | | | | | | | | | |
|---|--|---|--|---|--|---|--|--------------------------------|--|
| Client Information | | Sampler: William Lasker | | Lab PM: David Fuller | | Carrier Tracking No(s) | | COC No: | |
| Client Contact: Kristen Jurinko | | Phone: 470-995-0650 | | E-Mail: David.Fuller@et.eurolins.com | | State of Origin: GA | | Page 1 of 2 | |
| Company: Southern Company | | PWSID: | | Analysis Requested | | Total Number of Containers | | Job #: | |
| Address: 241 Ralph McGill Blvd SE B10185 | | Due Date Requested | | 6020B Metals - Select List - Phenols, Pfit | | 6020B - Metals - Select List - SAV TEST BOTTLES | | Preservation Codes | |
| City: Atlanta | | TAT Requested (days): 4 Days | | 2208 - Alkalinity, Total, Carb/Bicarb | | 2540C Solids, Total Dissolved (TDS) | | A HCL | |
| State, Zip: GA, 30308 | | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 300_ORGFM_2BD Chloride Fluoride Sulfate | | 2208 - Alkalinity, Total, Carb/Bicarb | | B NaOH | |
| Phone: 404-506-7116(Tel) | | Lab Project #: 68027841 | | Perform MS/MSD (Yes or No) | | 2208 - Alkalinity, Total, Carb/Bicarb | | C Zn Acetate | |
| Email: KNJURINK@SOUTHERNCO.COM | | Lab PO #: GPC82130-0001 | | Field Filled Sample (Yes or No) | | 300_ORGFM_2BD Chloride Fluoride Sulfate | | D Nitric Acid | |
| Project Name: Plant McManus Surface Water | | Project #: | | 6020B Metals - Select List - Phenols, Pfit | | 2208 - Alkalinity, Total, Carb/Bicarb | | E NaHSO4 | |
| Site: | | SSOW#: | | 6020B Metals - Select List - Phenols, Pfit | | 2208 - Alkalinity, Total, Carb/Bicarb | | F - MeOH | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | G Matrix (Water, Solid, Other) | |
| T1-1HT | | 12/20/22 | | 0751 | | G | | WS | |
| T1-2HT | | 12/20/22 | | 0801 | | G | | WS | |
| T1-2HTS | | 12/20/22 | | 0756 | | G | | WS | |
| T1-3HT | | 12/20/22 | | 0818 | | G | | WS | |
| T1-3HTS | | 12/20/22 | | 0812 | | G | | WS | |
| T3-1HT | | 12/20/22 | | 0707 | | G | | WS | |
| T3-2HT | | 12/20/22 | | 0718 | | G | | WS | |
| T3-2HTS | | 12/20/22 | | 0712 | | G | | WS | |
| T3-3HT | | 12/20/22 | | 0738 | | G | | WS | |
| T3-3HTS | | 12/20/22 | | 0730 | | G | | WS | |
| DUP-4 | | 12/20/22 | | - | | G | | WS | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I II III IV Other (specify) | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | |
| Special Instructions/QC Requirements | | | | | | | | | |
| 680-228110 Chain of Custody | | | | | | | | | |
| Special Instructions/Note PH 7 56 7 55 7 57 7 53 7 54 6 58 7 31 7 14 7 46 7 39 | | | | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ Relinquished by: Meredith Duncan Date: 12/21/22 Time: 0937 Company: Resolute Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No: 29/2.9 Date: 1-1/1-1 | | | | | | | | | |

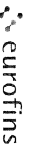


Chain of Custody Record

| | | | |
|---|--|---|---|
| Client Information Client Contact: Kristen Jurinko Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: KNJURINK@SOUTHERNCO.COM Project Name: Plant, McManus Surface Water Site: | | Lab PM: Fuller, David E-Mail: David.Fuller@et.eurofins.com State of Origin: GA Carrier Tracking No(s): Page: Page 2 of 2 Job #: | |
| Due Date Requested: TAT Requested (days): 4 Days Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No Lab Project #: 68027841 Lab PO #: GPC82130-0001 Project #: SSOW#: | | | |
| Sample Identification FB-3 EB-3 | Sample Date: 12/20/22 12/20/22 | Sample Time: 0910 0915 | Sample Type (C=Comp, G=grab): G G |
| Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air): WG WG | Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> 6020B Metals - Select List - benzene P+ 300_ORGFM_28D - Chloride Fluoride Sulfate 2320B Alkalinity, Total, Carb/Bicarb 2540C Solids, Total Dissolved (TDS) 6020B - Metals Select List - SAV TEST BOTTLES | | |
| Total Number of Containers: | | Special Instructions/Note: | |
| 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 - Na2SO4 S - H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z - other (specify) | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I II III IV Other (specify): | | | |
| Empty Kit Relinquished by: | | | |
| Relinquished by: Meredith Durcan | | Date/Time: 12/21/22 0937 | |
| Relinquished by: | | Date/Time: | |
| Relinquished by: | | Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No | |
| Cooler Temperature(s) °C and Other Remarks: | | | |
| Special Instructions/QC Requirements | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Method of Shipment: | | Received by: <i>[Signature]</i> Date/Time: 12/21/22 0937 Company: Resolute | |
| Received by: | | Date/Time: | |
| Received by: | | Date/Time: | |

Ver-01/16/2019

Chain of Custody Record



| | | | | |
|---|--------------------------------|-------------------------------------|--------------------------|---------------------|
| Client Information (Sub Contract Lab) | Sampler: | Lab P/N: | Carrier Tracking No(s): | COC No |
| Client Contact: Shipping/Receiving | Phone: | Fuller, David | | 680-721977.1 |
| Company: Eurofins Environment Testing Southeast | | Email: David.Fuller@et.eurofins.com | State of Origin: Georgia | Page 1 of 2 |
| Address: 3355 McLemore Drive, | Due Date Requested: 12/27/2022 | Accreditations Required (See note) | State - Georgia | Job #: 680-228110-1 |
| City: Pensacola | TAT Requested (days): | Analysis Requested | | |
| State Zip: FL 32514 | | | | |
| Phone: 850-474-1001 (Tel) 850-478-2671 (Fax) | PO # | | | |
| Email: Project #: | WO # | | | |
| Plant McManus Surface Water | 68027841 | | | |
| Site: SSOV#: | | | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Seawater, Stormwater, Other) | Preservation Code | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of containers | Special Instructions/Note: |
|--|-------------|---------------|------------------------------|---|-------------------|-----------------------------------|----------------------------|----------------------------|-----------------------------------|
| T1-1HT (680-228110-1) | 12/20/22 | 07:51 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T1-2HT (680-228110-2) | 12/20/22 | 08:01 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T1-2HTS (680-228110-3) | 12/20/22 | 07:56 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T1-3HT (680-228110-4) | 12/20/22 | 08:18 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T1-3HTS (680-228110-5) | 12/20/22 | 08:12 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T3-1HT (680-228110-6) | 12/20/22 | 07:07 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T3-2HT (680-228110-7) | 12/20/22 | 07:18 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T3-2HTS (680-228110-8) | 12/20/22 | 07:12 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| T3-3HT (680-228110-9) | 12/20/22 | 07:38 Eastern | | Water | | | X | 1 | THESE SAMPLES HAVE HIGH SALINITY! |

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/analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Dispose By Lab Archive For _____ Months

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

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

| | | | |
|--|-----------------------|-------------------------------------|-------------------------|
| Client Information (Sub Contract Lab) | Sampler: | Lab P/N: | Carrier Tracking No(s): |
| Client Contract | Phone: | Fuller, David | 680-7219772 |
| Shipping/Receiving | | E-Mail: | State of Origin: |
| Eurofins Environment Testing Southeast | | David.Fuller@et.eurofins.com | Georgia |
| Company: | Due Date Requested: | Accreditations Required (See note): | Page 2 of 2 |
| | 12/27/2022 | State - Georgia | Page 2 of 2 |
| Address: | TAT Requested (days): | | Job #: |
| 3355 McInnere Drive, | | | 680-228110-1 |
| City: | | Analysis Requested | |
| Pensacola | | | |
| State, zip: | | | |
| FL, 32514 | | | |
| Phone: | PO #: | | |
| 850-474-1001 (Tel) 850-478-2671 (Fax) | | | |
| Email: | WO #: | | |
| | | | |
| Project Name: | Project #: | | |
| Plant McInnere Surface Water | 68027841 | | |
| Site: | SSOV#: | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (G=grab) | Matrix (We-water, Solid, On-wastefill, Bristle-Air) | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of containers | Special Instructions/Note: |
|--|-------------|---------------|----------------------|---|-------------------------------------|--|-------------------------------------|--|----------------------------|-----------------------------------|
| | | | | | Preservation Code: | | | | | |
| T3-3HTS (680-228110-10) | 12/20/22 | 07:30 Eastern | Water | Water | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| DUP-4 (680-228110-11) | 12/20/22 | Eastern | Water | Water | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| FB-3 (680-228110-12) | 12/20/22 | 09:10 Eastern | Water | Water | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| EB-3 (680-228110-13) | 12/20/22 | 09:15 Eastern | Water | Water | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | 1 | THESE SAMPLES HAVE HIGH SALINITY! |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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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/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

Deliverable Requested: I, II, III, IV, Other (specify) _____

Primary Deliverable Rank: 2

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

| | | | |
|--|-------------------|---|---------------------------------|
| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
| Relinquished by: | Date/Time: | Company: | Received by: <i>W</i> |
| Relinquished by: | Date/Time: | Company: | Date/Time: <i>12-22-22 9:19</i> |
| Relinquished by: | Date/Time: | Company: | Received by: |
| Relinquished by: | Date/Time: | Company: | Date/Time: |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: <i>26.9, 11.1 °C.</i> | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-228110-1

Login Number: 228110

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 | |



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-228110-1

Login Number: 228110

List Number: 2

Creator: Peckinpugh, Marshall

List Source: Eurofins Pensacola

List Creation: 12/22/22 02:04 PM

| Question | Answer | Comment |
|--|--------|------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| 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 | 1.1°C/2.6°C IR10 |
| 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"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|---|----------------------------------|-----------------------|
| Field Technician: William Laaker | Date: 6/7/22 | Time (Calibration): 12:36 | Time (Mid-day Check): |
| AquaTroll SN: 789301 | Turbidity Meter Type: LaMotte 2020 | SN: 2068-0320 | |
| Project: June 2022 Surface Water | Weather Conditions: 89°/68° sunny w/ partly cloudy | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 104.10 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 31.19 | 4490 | 4528.4 | |
| pH (4) | 21470032 04/24 | 31.02 | 4 | 4.13 | |
| pH (7) | 21380102 04/23 | 30.05 | 7 | 7.09 | |
| pH (10) | 20080056 04/23 | 29.54 | 10 | 10.05 | |
| ORP (mV) | 21140143 04/23 | 29.41 | 228 | 211.7 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|-------------------|--------------------|--------------------|--------|----------|
| Turbidity 0 NTU | 0 | 0.00 | +/-0.5 NTU | Yes No | |
| Turbidity 1 NTU | 1 | 1.17 | +/- 0.5 NTU | Yes No | |
| Turbidity 10 NTU | 10 | 10.37 | +/- 0.5 NTU | Yes No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|-------------------|--------|----------|
| Mid-Day pH (4) check | | 4 | | +/- 0.1 SU | Yes No | |
| Mid-Day pH (7) check | | 7 | | +/- 0.1 SU | Yes No | |
| Mid-Day pH (10) check | | 10 | | +/- 0.1 SU | Yes No | |

Calibration Report

Instrument Aqua TROLL 400

Serial Number 789301

Created 6/7/2022

Sensor

Sensor RDO

Serial Number 878603

Last Calibrated 6/7/2022

Calibration Details

Slope 1.042328

Offset 0.00 mg/L

Calibration point 100%

Concentration 7.02 mg/L

Temperature 32.21 °C

Barometric Pressure 1,018.0 mbar

Sensor

Sensor Conductivity

Serial Number 789301

Last Calibrated 6/7/2022

Calibration Details

Cell Constant 0.98

Reference Temperature 25.00 °C

TDS Conversion Factor (ppm) 0.65

Sensor

| | |
|-----------------|------------------|
| Sensor | Level |
| Serial Number | 787061 |
| Last Calibrated | Factory Defaults |

Sensor

| | |
|-----------------|----------|
| Sensor | pH/ORP |
| Serial Number | 21177 |
| Last Calibrated | 6/7/2022 |

Calibration Details

| | |
|--------------------------|---|
| Total Calibration Points | 3 |
|--------------------------|---|

Calibration Point 1

| | |
|--------------|----------|
| pH of Buffer | 4.01 pH |
| pH mV | 137.9 mV |
| Temperature | 31.02 °C |

Calibration Point 2

| | |
|--------------|----------|
| pH of Buffer | 6.99 pH |
| pH mV | -37.3 mV |
| Temperature | 30.05 °C |

Calibration Point 3

| | |
|--------------|-----------|
| pH of Buffer | 9.96 pH |
| pH mV | -204.2 mV |
| Temperature | 29.54 °C |

Slope and Offset 1

| | |
|--------|--------------|
| Slope | -58.78 mV/pH |
| Offset | -37.9 mV |

Slope and Offset 2

Slope -56.19 mV/pH

Offset -37.8 mV

ORP

ORP Solution ORP Standard

Offset 48.6 mV

Temperature 29.41 °C

Location Properties
Location Name = Device Location

BG-1HT

Report Properties
Start Time = 2022-06-07 16:38:06
Time Offset = -04:00:00
Duration = 00:00:22
Readings = 12

Instrument Properties
Device Model = Aqua TROLL 400
Device SN = 789301

Instrument Properties
Device Model = PowerPack
Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 4.352145 | 69.56929 | 100.8126 | 40403.08 | 34.50235 | 34196.7 | 21.84498 | 22.22785 | 24.75058 |
| ##### | 4.35694 | 69.48421 | 100.7433 | 40393.12 | 34.32939 | 34284.22 | 21.90707 | 22.28474 | 24.75669 |
| ##### | 4.356794 | 69.46958 | 100.7264 | 40392.38 | 34.31182 | 34293.27 | 21.91349 | 22.29063 | 24.75714 |
| ##### | 4.356647 | 69.45494 | 100.7094 | 40391.64 | 34.29426 | 34302.32 | 21.91992 | 22.29651 | 24.7576 |
| ##### | 4.3565 | 69.44031 | 100.6925 | 40390.91 | 34.2767 | 34311.38 | 21.92634 | 22.3024 | 24.75805 |
| ##### | 4.405722 | 69.86126 | 101.412 | 40400.54 | 34.07515 | 34432.32 | 22.01212 | 22.38101 | 24.75215 |
| ##### | 4.408024 | 69.87826 | 101.4426 | 40400.76 | 34.06252 | 34439.55 | 22.01725 | 22.38571 | 24.75201 |
| ##### | 4.410326 | 69.89526 | 101.4733 | 40400.98 | 34.04988 | 34446.79 | 22.02238 | 22.39041 | 24.75188 |
| ##### | 4.412627 | 69.91226 | 101.504 | 40401.2 | 34.03725 | 34454.02 | 22.02751 | 22.39512 | 24.75174 |
| ##### | 4.419891 | 69.84914 | 101.4744 | 40298.92 | 33.69339 | 34560.49 | 22.103 | 22.46432 | 24.81458 |
| ##### | 4.421187 | 69.85434 | 101.4869 | 40294.46 | 33.67355 | 34567.84 | 22.10822 | 22.4691 | 24.81732 |
| ##### | 4.422483 | 69.85954 | 101.4995 | 40290 | 33.6537 | 34575.19 | 22.11343 | 22.47388 | 24.82006 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010355 | -0.06447 | 0.487769 | 7.537376 | -68.9955 | 96.09503 | 1016.06 | 33.87033 | |
| 1.010463 | -0.06422 | 0.488342 | 7.529408 | -68.4964 | 96.15667 | 1016.068 | 33.87036 | |
| 1.010474 | -0.06439 | 0.487959 | 7.528841 | -68.46 | 96.16071 | 1016.069 | 33.87019 | |
| 1.010485 | -0.06455 | 0.487577 | 7.528274 | -68.4236 | 96.16476 | 1016.069 | 33.87003 | |
| 1.010496 | -0.06472 | 0.487194 | 7.527707 | -68.3872 | 96.16879 | 1016.069 | 33.86986 | |
| 1.010632 | -0.06075 | 0.496351 | 7.5213 | -67.9892 | 96.24384 | 1016.035 | 33.87 | |
| 1.01064 | -0.06057 | 0.496771 | 7.520855 | -67.9615 | 96.24844 | 1016.033 | 33.87 | |
| 1.010648 | -0.06039 | 0.497191 | 7.52041 | -67.9337 | 96.25304 | 1016.032 | 33.87 | |
| 1.010657 | -0.0602 | 0.497611 | 7.519964 | -67.906 | 96.25763 | 1016.03 | 33.87 | |
| 1.010835 | -0.04886 | 0.52378 | 7.515541 | -67.5764 | 96.32788 | 1016.084 | 33.87897 | |
| 1.010846 | -0.04827 | 0.525142 | 7.515205 | -67.5531 | 96.3326 | 1016.086 | 33.87938 | |
| 1.010857 | -0.04768 | 0.526504 | 7.51487 | -67.5297 | 96.33733 | 1016.088 | 33.87979 | |

Location Properties

BG-2HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 16:20:11

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO | Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 4.842863 | 77.79829 | 112.8284 | 42947.68 | 34.26565 | 36489.95 | 23.47663 | 23.71847 | 23.28415 | |
| ##### | 4.837636 | 77.44833 | 112.4069 | 42917.3 | 34.01505 | 36613.23 | 23.56474 | 23.7986 | 23.30065 | |
| ##### | 4.834672 | 77.38356 | 112.3186 | 42912.66 | 33.99417 | 36621.66 | 23.57076 | 23.80408 | 23.30316 | |
| ##### | 4.831708 | 77.31879 | 112.2304 | 42908.02 | 33.97329 | 36630.08 | 23.57679 | 23.80955 | 23.30567 | |
| ##### | 4.828744 | 77.25401 | 112.1421 | 42903.39 | 33.95241 | 36638.5 | 23.58281 | 23.81503 | 23.30818 | |
| ##### | 4.824914 | 76.83352 | 111.6381 | 42875.27 | 33.77124 | 36723.13 | 23.64326 | 23.87004 | 23.32347 | |
| ##### | 4.824518 | 76.80596 | 111.6045 | 42873.29 | 33.75822 | 36729.23 | 23.64761 | 23.874 | 23.32455 | |
| ##### | 4.824122 | 76.7784 | 111.5709 | 42871.32 | 33.7452 | 36735.33 | 23.65197 | 23.87796 | 23.32562 | |
| ##### | 4.823726 | 76.75085 | 111.5374 | 42869.34 | 33.73218 | 36741.43 | 23.65633 | 23.88193 | 23.32669 | |
| ##### | 4.80621 | 76.25777 | 110.8947 | 42807.16 | 33.38308 | 36899.16 | 23.76892 | 23.98446 | 23.36059 | |
| ##### | 4.805303 | 76.22665 | 110.8549 | 42803.77 | 33.36376 | 36907.93 | 23.77518 | 23.99015 | 23.36243 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.011648 | -0.06846 | 0.478564 | 7.529131 | -68.4505 | 98.97852 | 1016.129 | 34.36 | |
| 1.011803 | -0.06756 | 0.480635 | 7.523257 | -68.0777 | 99.02705 | 1016.129 | 34.36 | |
| 1.011815 | -0.06777 | 0.480156 | 7.522879 | -68.0522 | 99.03084 | 1016.129 | 34.36 | |
| 1.011827 | -0.06798 | 0.479678 | 7.5225 | -68.0266 | 99.03463 | 1016.13 | 34.36 | |
| 1.011839 | -0.06819 | 0.479199 | 7.522122 | -68.0011 | 99.03842 | 1016.13 | 34.36 | |
| 1.011949 | -0.0789 | 0.454492 | 7.516189 | -67.6358 | 99.04403 | 1016.121 | 34.3514 | |
| 1.011957 | -0.07938 | 0.45339 | 7.515813 | -67.6123 | 99.04522 | 1016.121 | 34.35101 | |
| 1.011965 | -0.07985 | 0.452287 | 7.515437 | -67.5889 | 99.04641 | 1016.12 | 34.35062 | |
| 1.011972 | -0.08033 | 0.451185 | 7.51506 | -67.5654 | 99.0476 | 1016.12 | 34.35023 | |
| 1.01218 | -0.07933 | 0.453488 | 7.513478 | -67.381 | 99.07452 | 1016.146 | 34.35024 | |
| 1.012191 | -0.0795 | 0.453101 | 7.51329 | -67.3655 | 99.07586 | 1016.147 | 34.35007 | |

Location Properties

T1-4HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 18:09:39

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.282955 | 79.93094 | 116.9349 | 37542.12 | 31.19789 | 33568.31 | 21.39799 | 21.8194 | 26.63675 |
| ##### | 5.262061 | 79.6104 | 116.4669 | 37540.34 | 31.19431 | 33568.77 | 21.39831 | 21.8197 | 26.63801 |
| ##### | 5.241166 | 79.28987 | 115.999 | 37538.57 | 31.19074 | 33569.23 | 21.39862 | 21.82 | 26.63927 |
| ##### | 5.066391 | 76.59417 | 112.0767 | 37615.87 | 31.12392 | 33676.82 | 21.47436 | 21.88993 | 26.58454 |
| ##### | 5.052888 | 76.38668 | 111.7742 | 37618.26 | 31.12011 | 33681.15 | 21.47741 | 21.89275 | 26.58285 |
| ##### | 5.039385 | 76.17918 | 111.4717 | 37620.66 | 31.1163 | 33685.49 | 21.48046 | 21.89557 | 26.58115 |
| ##### | 5.025881 | 75.97169 | 111.1692 | 37623.05 | 31.11249 | 33689.82 | 21.4835 | 21.89838 | 26.57946 |
| ##### | 4.890463 | 73.86621 | 108.1043 | 37635.79 | 31.10021 | 33708.31 | 21.49651 | 21.9104 | 26.57046 |
| ##### | 4.880774 | 73.71607 | 107.8857 | 37637.73 | 31.09836 | 33711.1 | 21.49848 | 21.91222 | 26.56909 |
| ##### | 4.871086 | 73.56593 | 107.6672 | 37639.66 | 31.09651 | 33713.9 | 21.50045 | 21.91403 | 26.56772 |
| ##### | 4.766313 | 71.97998 | 105.3492 | 37679.12 | 31.03681 | 33783.77 | 21.5496 | 21.95945 | 26.5399 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2: | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|-------------|-----------|----------|-----------|-----------|--------|
| 1.011173 | -0.07191 | 0.470613 | 7.451541 | -63.4427 | 98.82546 | 1016.024 | 34.53345 | |
| 1.011174 | -0.07197 | 0.470464 | 7.451041 | -63.4135 | 98.83092 | 1016.022 | 34.53194 | |
| 1.011175 | -0.07204 | 0.470316 | 7.450542 | -63.3844 | 98.83637 | 1016.021 | 34.53044 | |
| 1.011254 | -0.06928 | 0.476667 | 7.44415 | -63.0215 | 98.86288 | 1016.038 | 34.5223 | |
| 1.011258 | -0.06917 | 0.476926 | 7.44372 | -62.9967 | 98.86568 | 1016.038 | 34.52142 | |
| 1.011261 | -0.06906 | 0.477185 | 7.44329 | -62.972 | 98.86849 | 1016.038 | 34.52055 | |
| 1.011265 | -0.06895 | 0.477443 | 7.442861 | -62.9472 | 98.8713 | 1016.038 | 34.51968 | |
| 1.011278 | -0.06503 | 0.486487 | 7.437541 | -62.6394 | 98.90311 | 1016.048 | 34.50259 | |
| 1.011281 | -0.0648 | 0.487001 | 7.437176 | -62.6185 | 98.90514 | 1016.049 | 34.50165 | |
| 1.011283 | -0.06458 | 0.487516 | 7.436811 | -62.5975 | 98.90717 | 1016.049 | 34.50071 | |
| 1.011339 | -0.06639 | 0.483351 | 7.431591 | -62.2934 | 98.96976 | 1016.024 | 34.48372 | |

Location Properties

T1-4HTS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 18:06:45

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 5.550097 | 84.48286 | 123.4142 | 37135.81 | 31.72372 | 32909.48 | 20.93498 | 21.39116 | 26.92818 | |
| ##### 5.550097 | 84.48286 | 123.4142 | 37135.81 | 31.72372 | 32909.48 | 20.93498 | 21.39116 | 26.92818 | |
| ##### 5.420782 | 82.54925 | 120.5861 | 37171.32 | 31.74795 | 32927.44 | 20.94767 | 21.40284 | 26.90246 | |
| ##### 5.412496 | 82.42534 | 120.4049 | 37173.6 | 31.7495 | 32928.59 | 20.94848 | 21.40358 | 26.90081 | |
| ##### 5.404209 | 82.30143 | 120.2236 | 37175.88 | 31.75106 | 32929.74 | 20.94929 | 21.40433 | 26.89916 | |
| ##### 5.395923 | 82.17753 | 120.0424 | 37178.15 | 31.75261 | 32930.89 | 20.9501 | 21.40508 | 26.89751 | |
| ##### 5.349734 | 81.45068 | 118.9839 | 37208.88 | 31.74743 | 32961 | 20.97128 | 21.42465 | 26.87531 | |
| ##### 5.344407 | 81.36938 | 118.8652 | 37211.16 | 31.7478 | 32962.81 | 20.97256 | 21.42583 | 26.87366 | |
| ##### 5.339078 | 81.28807 | 118.7465 | 37213.44 | 31.74818 | 32964.63 | 20.97383 | 21.42701 | 26.87201 | |
| ##### 5.333751 | 81.20676 | 118.6278 | 37215.72 | 31.74855 | 32966.44 | 20.97511 | 21.42818 | 26.87036 | |
| ##### 5.297558 | 80.59434 | 117.7529 | 37176.18 | 31.67993 | 32969.69 | 20.97728 | 21.4303 | 26.89895 | |

| Density (g/cm³) | Pressure (ft) | Depth (ft) | pH (pH) | pH mV (mV) | ORP (mV) | Barometric | Temperature | Marked |
|-----------------|---------------|------------|----------|------------|----------|------------|-------------|--------|
| 1.010651 | -0.08382 | 0.443134 | 7.526695 | -67.8202 | 96.89316 | 1015.99 | 34.9 | |
| 1.010651 | -0.08382 | 0.443134 | 7.526695 | -67.8202 | 96.89316 | 1015.99 | 34.9 | |
| 1.010653 | -0.06431 | 0.488147 | 7.514892 | -67.1527 | 97.52088 | 1016.026 | 34.89088 | |
| 1.010653 | -0.06306 | 0.491031 | 7.514135 | -67.11 | 97.56111 | 1016.029 | 34.8903 | |
| 1.010653 | -0.06181 | 0.493916 | 7.513379 | -67.0672 | 97.60133 | 1016.031 | 34.88971 | |
| 1.010653 | -0.06056 | 0.4968 | 7.512622 | -67.0244 | 97.64156 | 1016.033 | 34.88913 | |
| 1.01067 | -0.07714 | 0.458545 | 7.506647 | -66.6819 | 97.68231 | 1015.986 | 34.8903 | |
| 1.010671 | -0.0774 | 0.45794 | 7.506081 | -66.6496 | 97.69987 | 1015.984 | 34.89012 | |
| 1.010672 | -0.07767 | 0.457334 | 7.505515 | -66.6174 | 97.71743 | 1015.983 | 34.88995 | |
| 1.010673 | -0.07793 | 0.456729 | 7.504949 | -66.5852 | 97.73499 | 1015.982 | 34.88977 | |
| 1.010697 | -0.06976 | 0.47558 | 7.497952 | -66.1714 | 97.81595 | 1016.026 | 34.88106 | |

Location Properties

T2-1HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 16:54:33

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO | Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.616908 | 86.55134 | 125.9527 | 34879.8 | 33.12784 | 30192.64 | 19.03496 | 19.62521 | 28.66991 | |
| ##### | 5.605643 | 86.38039 | 125.7036 | 34882.27 | 33.13057 | 30193.41 | 19.0355 | 19.62572 | 28.66787 | |
| ##### | 5.594378 | 86.20946 | 125.4544 | 34884.74 | 33.13331 | 30194.19 | 19.03604 | 19.62622 | 28.66582 | |
| ##### | 5.532991 | 85.27181 | 124.0894 | 34959.91 | 33.12083 | 30265.49 | 19.08566 | 19.67257 | 28.60422 | |
| ##### | 5.527731 | 85.19093 | 123.9718 | 34962.94 | 33.12109 | 30267.99 | 19.0874 | 19.67419 | 28.60173 | |
| ##### | 5.52247 | 85.11005 | 123.8542 | 34965.97 | 33.12135 | 30270.48 | 19.08913 | 19.67581 | 28.59925 | |
| ##### | 5.51721 | 85.02916 | 123.7366 | 34969 | 33.12162 | 30272.97 | 19.09087 | 19.67743 | 28.59676 | |
| ##### | 5.473823 | 84.2551 | 122.6451 | 34992.97 | 33.08169 | 30313.74 | 19.11925 | 19.70393 | 28.57718 | |
| ##### | 5.470562 | 84.20009 | 122.5667 | 34995.48 | 33.07962 | 30316.95 | 19.12148 | 19.70602 | 28.57512 | |
| ##### | 5.467302 | 84.14508 | 122.4883 | 34997.99 | 33.07755 | 30320.16 | 19.12372 | 19.70811 | 28.57307 | |
| ##### | 5.464042 | 84.09007 | 122.4099 | 35000.5 | 33.07549 | 30323.37 | 19.12595 | 19.71019 | 28.57101 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.008761 | -0.06567 | 0.484993 | 7.585557 | -71.4661 | 89.72636 | 1016.152 | 34.43575 | |
| 1.00876 | -0.06596 | 0.484328 | 7.584449 | -71.4033 | 89.7338 | 1016.154 | 34.43724 | |
| 1.008759 | -0.06625 | 0.483663 | 7.583341 | -71.3405 | 89.74122 | 1016.156 | 34.43874 | |
| 1.008801 | -0.05989 | 0.498329 | 7.571146 | -70.6395 | 89.80697 | 1016.115 | 34.4642 | |
| 1.008802 | -0.0598 | 0.498556 | 7.570296 | -70.5909 | 89.81178 | 1016.114 | 34.46582 | |
| 1.008803 | -0.0597 | 0.498783 | 7.569448 | -70.5423 | 89.81658 | 1016.113 | 34.46745 | |
| 1.008804 | -0.0596 | 0.499011 | 7.568599 | -70.4937 | 89.8214 | 1016.113 | 34.46908 | |
| 1.008839 | -0.07942 | 0.453278 | 7.557044 | -69.8273 | 89.8877 | 1016.146 | 34.4956 | |
| 1.008841 | -0.08024 | 0.451396 | 7.556269 | -69.7827 | 89.89208 | 1016.147 | 34.49733 | |
| 1.008844 | -0.08106 | 0.449514 | 7.555494 | -69.738 | 89.89646 | 1016.148 | 34.49905 | |
| 1.008846 | -0.08187 | 0.447632 | 7.554719 | -69.6934 | 89.90084 | 1016.149 | 34.50077 | |

Location Properties

T2-2HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:05:33

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 2.869051 | 43.1269 | 63.13158 | 36496.98 | 31.02136 | 32732.48 | 20.80896 | 21.27612 | 27.39938 |
| ##### | 2.811236 | 42.25428 | 61.86131 | 36620.04 | 30.96517 | 32874.52 | 20.9087 | 21.36844 | 27.30757 |
| ##### | 2.807337 | 42.19572 | 61.77601 | 36629.96 | 30.96226 | 32885.07 | 20.9161 | 21.37529 | 27.30011 |
| ##### | 2.803438 | 42.13716 | 61.6907 | 36639.89 | 30.95934 | 32895.61 | 20.92351 | 21.38215 | 27.29266 |
| ##### | 2.732197 | 41.08507 | 60.1539 | 36819.81 | 30.95001 | 33062.44 | 21.04088 | 21.49059 | 27.15947 |
| ##### | 2.727818 | 41.02005 | 60.05901 | 36830.49 | 30.9485 | 33072.88 | 21.04822 | 21.49737 | 27.15154 |
| ##### | 2.723439 | 40.95504 | 59.96413 | 36841.17 | 30.947 | 33083.32 | 21.05556 | 21.50416 | 27.14362 |
| ##### | 2.719061 | 40.89002 | 59.86925 | 36851.86 | 30.94549 | 33093.76 | 21.0629 | 21.51094 | 27.13569 |
| ##### | 2.666844 | 40.0753 | 58.68551 | 36963.1 | 30.90829 | 33214.88 | 21.14808 | 21.58967 | 27.05411 |
| ##### | 2.663128 | 40.01846 | 58.60277 | 36971.55 | 30.90641 | 33223.54 | 21.15417 | 21.5953 | 27.04788 |
| ##### | 2.659412 | 39.96163 | 58.52004 | 36980.01 | 30.90454 | 33232.2 | 21.16027 | 21.60093 | 27.04166 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010794 | -0.06288 | 0.491431 | 7.406355 | -60.8698 | 94.60312 | 1016.121 | 34.75944 | |
| 1.010886 | -0.06274 | 0.491761 | 7.403584 | -60.7043 | 94.90676 | 1016.138 | 34.75095 | |
| 1.010893 | -0.06258 | 0.492134 | 7.40339 | -60.6929 | 94.92827 | 1016.138 | 34.75071 | |
| 1.010899 | -0.06242 | 0.492506 | 7.403195 | -60.6814 | 94.94977 | 1016.139 | 34.75047 | |
| 1.01099 | -0.07664 | 0.459698 | 7.400199 | -60.5051 | 95.10074 | 1016.173 | 34.76721 | |
| 1.010996 | -0.07727 | 0.458237 | 7.400007 | -60.4937 | 95.11362 | 1016.175 | 34.7678 | |
| 1.011002 | -0.07791 | 0.456777 | 7.399815 | -60.4823 | 95.12651 | 1016.176 | 34.76839 | |
| 1.011008 | -0.07854 | 0.455317 | 7.399622 | -60.471 | 95.1394 | 1016.178 | 34.76897 | |
| 1.011083 | -0.06341 | 0.49022 | 7.398654 | -60.4088 | 95.38204 | 1016.135 | 34.76077 | |
| 1.011089 | -0.063 | 0.491165 | 7.398552 | -60.4025 | 95.39597 | 1016.134 | 34.76071 | |
| 1.011094 | -0.06259 | 0.492109 | 7.398451 | -60.3963 | 95.40989 | 1016.133 | 34.76065 | |

Location Properties

T2-2HTS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 16:59:40

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO | Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.828774 | 87.22459 | 127.4787 | 32449.77 | 31.65129 | 28792.04 | 18.06335 | 18.71483 | 30.81686 | |
| ##### | 5.828774 | 87.22459 | 127.4787 | 32449.77 | 31.65129 | 28792.04 | 18.06335 | 18.71483 | 30.81686 | |
| ##### | 5.828774 | 87.22459 | 127.4787 | 32449.77 | 31.65129 | 28792.04 | 18.06335 | 18.71483 | 30.81686 | |
| ##### | 5.70785 | 85.42557 | 124.8448 | 32489.94 | 31.64725 | 28829.66 | 18.08935 | 18.73928 | 30.77876 | |
| ##### | 5.699947 | 85.30801 | 124.6727 | 32492.57 | 31.64698 | 28832.12 | 18.09104 | 18.74088 | 30.77627 | |
| ##### | 5.692046 | 85.19045 | 124.5006 | 32495.19 | 31.64672 | 28834.58 | 18.09274 | 18.74248 | 30.77378 | |
| ##### | 5.684144 | 85.0729 | 124.3285 | 32497.82 | 31.64646 | 28837.03 | 18.09444 | 18.74407 | 30.77129 | |
| ##### | 5.635246 | 84.3185 | 123.237 | 32505.12 | 31.63038 | 28851.38 | 18.10435 | 18.7534 | 30.76439 | |
| ##### | 5.629923 | 84.23813 | 123.1199 | 32506.5 | 31.62957 | 28853 | 18.10546 | 18.75445 | 30.76308 | |
| ##### | 5.6246 | 84.15775 | 123.0028 | 32507.87 | 31.62875 | 28854.61 | 18.10658 | 18.7555 | 30.76178 | |
| ##### | 5.619277 | 84.07738 | 122.8857 | 32509.24 | 31.62794 | 28856.23 | 18.1077 | 18.75655 | 30.76048 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.008544 | -0.08773 | 0.434125 | 7.512456 | -66.9929 | 89.33818 | 1016.25 | 34.8 | |
| 1.008544 | -0.08773 | 0.434125 | 7.512456 | -66.9929 | 89.33818 | 1016.25 | 34.8 | |
| 1.008544 | -0.08773 | 0.434125 | 7.512456 | -66.9929 | 89.33818 | 1016.25 | 34.8 | |
| 1.008565 | -0.05777 | 0.50323 | 7.502505 | -66.4268 | 89.75877 | 1016.203 | 34.8 | |
| 1.008566 | -0.05581 | 0.507746 | 7.501854 | -66.3898 | 89.78625 | 1016.2 | 34.8 | |
| 1.008568 | -0.05385 | 0.512261 | 7.501204 | -66.3528 | 89.81374 | 1016.197 | 34.8 | |
| 1.008569 | -0.0519 | 0.516777 | 7.500554 | -66.3158 | 89.84122 | 1016.194 | 34.8 | |
| 1.008582 | -0.06334 | 0.490368 | 7.495736 | -66.044 | 89.85916 | 1016.235 | 34.8 | |
| 1.008583 | -0.06306 | 0.491015 | 7.495263 | -66.0172 | 89.87096 | 1016.236 | 34.8 | |
| 1.008584 | -0.06278 | 0.491662 | 7.49479 | -65.9904 | 89.88277 | 1016.236 | 34.8 | |
| 1.008585 | -0.0625 | 0.492309 | 7.494317 | -65.9636 | 89.89458 | 1016.237 | 34.8 | |

Location Properties

T2-3HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:28:44

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 4.408839 | 65.91207 | 96.70335 | 38050.07 | 30.2514 | 34581.51 | 22.11086 | 22.47798 | 26.28124 |
| ##### | 4.405968 | 65.86964 | 96.64149 | 38057.14 | 30.24964 | 34588.99 | 22.11615 | 22.48284 | 26.27634 |
| ##### | 4.403097 | 65.82722 | 96.57963 | 38064.22 | 30.24788 | 34596.47 | 22.12144 | 22.48771 | 26.27143 |
| ##### | 4.400226 | 65.78479 | 96.51777 | 38071.29 | 30.24611 | 34603.95 | 22.12672 | 22.49257 | 26.26653 |
| ##### | 4.377334 | 65.37357 | 95.9283 | 38058.21 | 30.23281 | 34600.06 | 22.12391 | 22.49004 | 26.27555 |
| ##### | 4.375521 | 65.34348 | 95.8849 | 38060.05 | 30.23175 | 34602.37 | 22.12554 | 22.49154 | 26.27427 |
| ##### | 4.373708 | 65.31339 | 95.8415 | 38061.9 | 30.23069 | 34604.68 | 22.12717 | 22.49304 | 26.27299 |
| ##### | 4.371894 | 65.28329 | 95.7981 | 38063.74 | 30.22964 | 34606.98 | 22.12881 | 22.49454 | 26.27171 |
| ##### | 4.354321 | 64.99061 | 95.37527 | 38008.75 | 30.15024 | 34604.7 | 22.12684 | 22.49305 | 26.30974 |
| ##### | 4.353065 | 64.96916 | 95.34437 | 38006.12 | 30.14647 | 34604.57 | 22.12673 | 22.49297 | 26.31156 |
| ##### | 4.35181 | 64.94771 | 95.31347 | 38003.49 | 30.1427 | 34604.45 | 22.12663 | 22.49289 | 26.31338 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.012017 | -0.07906 | 0.454115 | 7.43465 | -62.3075 | 97.1431 | 1016.427 | 33.86037 | |
| 1.012022 | -0.07856 | 0.455275 | 7.43436 | -62.2909 | 97.14693 | 1016.428 | 33.8602 | |
| 1.012026 | -0.07806 | 0.456435 | 7.434069 | -62.2742 | 97.15076 | 1016.429 | 33.86003 | |
| 1.012031 | -0.07755 | 0.457594 | 7.433778 | -62.2576 | 97.15459 | 1016.429 | 33.85986 | |
| 1.012033 | -0.07841 | 0.455607 | 7.430377 | -62.0561 | 97.15673 | 1016.412 | 33.85134 | |
| 1.012034 | -0.07816 | 0.456187 | 7.430139 | -62.0422 | 97.15804 | 1016.411 | 33.85094 | |
| 1.012036 | -0.07791 | 0.456768 | 7.429901 | -62.0283 | 97.15935 | 1016.411 | 33.85055 | |
| 1.012038 | -0.07766 | 0.457348 | 7.429663 | -62.0144 | 97.16065 | 1016.41 | 33.85015 | |
| 1.012062 | -0.08738 | 0.434928 | 7.426811 | -61.8408 | 97.14727 | 1016.41 | 33.84148 | |
| 1.012063 | -0.08782 | 0.433903 | 7.426615 | -61.829 | 97.14676 | 1016.41 | 33.84093 | |
| 1.012064 | -0.08827 | 0.432877 | 7.42642 | -61.8173 | 97.14624 | 1016.409 | 33.84037 | |

Location Properties

T2-3HTS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:24:50

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 6.633162 | 99.82422 | 146.0571 | 35673.08 | 31.29997 | 31841.6 | 20.18455 | 20.69704 | 28.03234 | |
| ##### 6.633162 | 99.82422 | 146.0571 | 35673.08 | 31.29997 | 31841.6 | 20.18455 | 20.69704 | 28.03234 | |
| ##### 6.653025 | 100.1457 | 146.5235 | 35746.84 | 31.29548 | 31909.88 | 20.23236 | 20.74142 | 27.97451 | |
| ##### 6.654307 | 100.1664 | 146.5536 | 35751.6 | 31.29519 | 31914.29 | 20.23545 | 20.74429 | 27.97078 | |
| ##### 6.65559 | 100.1872 | 146.5837 | 35756.36 | 31.2949 | 31918.69 | 20.23854 | 20.74715 | 27.96704 | |
| ##### 6.656872 | 100.2079 | 146.6138 | 35761.12 | 31.29461 | 31923.1 | 20.24163 | 20.75002 | 27.96331 | |
| ##### 6.671432 | 100.362 | 146.8569 | 35786.63 | 31.28843 | 31949.23 | 20.25992 | 20.767 | 27.94341 | |
| ##### 6.672595 | 100.3772 | 146.8798 | 35789.68 | 31.28804 | 31952.17 | 20.26198 | 20.76891 | 27.94102 | |
| ##### 6.673759 | 100.3924 | 146.9028 | 35792.73 | 31.28765 | 31955.11 | 20.26404 | 20.77082 | 27.93863 | |
| ##### 6.674922 | 100.4076 | 146.9257 | 35795.79 | 31.28726 | 31958.05 | 20.26609 | 20.77273 | 27.93624 | |
| ##### 6.687526 | 100.5462 | 147.1387 | 35728.41 | 31.22033 | 31934.34 | 20.24935 | 20.75732 | 27.98894 | |

| Density (g/cm³) | Pressure (kPa) | Depth (ft) | pH (pH) | pH mV (mV) | ORP (mV) | Barometric (kPa) | Temperature (°C) | Marked |
|-----------------|----------------|------------|----------|------------|----------|------------------|------------------|--------|
| 1.010237 | -0.06334 | 0.49037 | 7.63271 | -73.7008 | 94.33463 | 1016.42 | 34.07 | |
| 1.010237 | -0.06334 | 0.49037 | 7.63271 | -73.7008 | 94.33463 | 1016.42 | 34.07 | |
| 1.010274 | -0.08042 | 0.45098 | 7.610923 | -72.4697 | 94.90527 | 1016.382 | 34.06063 | |
| 1.010276 | -0.08152 | 0.448437 | 7.609516 | -72.3902 | 94.94212 | 1016.38 | 34.06002 | |
| 1.010278 | -0.08263 | 0.445893 | 7.608109 | -72.3107 | 94.97896 | 1016.377 | 34.05942 | |
| 1.010281 | -0.08373 | 0.44335 | 7.606703 | -72.2312 | 95.0158 | 1016.375 | 34.05882 | |
| 1.010296 | -0.07114 | 0.472381 | 7.595916 | -71.6135 | 95.02734 | 1016.372 | 34.06023 | |
| 1.010298 | -0.07103 | 0.472643 | 7.59487 | -71.554 | 95.04272 | 1016.371 | 34.06005 | |
| 1.0103 | -0.07092 | 0.472904 | 7.593824 | -71.4945 | 95.05811 | 1016.37 | 34.05986 | |
| 1.010301 | -0.0708 | 0.473166 | 7.592778 | -71.435 | 95.07349 | 1016.369 | 34.05968 | |
| 1.010311 | -0.07801 | 0.456537 | 7.580517 | -70.7329 | 95.11165 | 1016.37 | 34.06 | |

Location Properties

T2-4HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:45:18

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.0942 | 75.673 | 110.9356 | 35246.84 | 30.47596 | 31909.41 | 20.22999 | 20.74112 | 28.37133 |
| ##### | 5.0942 | 75.673 | 110.9356 | 35246.84 | 30.47596 | 31909.41 | 20.22999 | 20.74112 | 28.37133 |
| ##### | 5.083878 | 75.54641 | 110.7503 | 35352.62 | 30.47507 | 32005.66 | 20.29741 | 20.80368 | 28.28646 |
| ##### | 5.083213 | 75.53827 | 110.7383 | 35359.42 | 30.47501 | 32011.86 | 20.30174 | 20.80771 | 28.281 |
| ##### | 5.08255 | 75.53012 | 110.7264 | 35366.23 | 30.47495 | 32018.04 | 20.30608 | 20.81173 | 28.27555 |
| ##### | 5.081885 | 75.52198 | 110.7145 | 35373.03 | 30.4749 | 32024.24 | 20.31042 | 20.81575 | 28.27009 |
| ##### | 5.082538 | 75.53436 | 110.7336 | 35372.26 | 30.47688 | 32022.44 | 20.30917 | 20.81459 | 28.27075 |
| ##### | 5.082298 | 75.5316 | 110.7296 | 35374.98 | 30.47694 | 32024.87 | 20.31087 | 20.81617 | 28.26857 |
| ##### | 5.082057 | 75.52885 | 110.7256 | 35377.71 | 30.47701 | 32027.3 | 20.31257 | 20.81775 | 28.26638 |
| ##### | 5.083523 | 75.54905 | 110.7531 | 35375.58 | 30.47607 | 32025.9 | 20.31158 | 20.81683 | 28.26809 |
| ##### | 5.083567 | 75.54977 | 110.7541 | 35375.83 | 30.47606 | 32026.13 | 20.31175 | 20.81698 | 28.26789 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010544 | -0.07818 | 0.456141 | 7.446539 | -63.026 | 95.02695 | 1016.21 | 32.87 | |
| 1.010544 | -0.07818 | 0.456141 | 7.446539 | -63.026 | 95.02695 | 1016.21 | 32.87 | |
| 1.010594 | -0.08679 | 0.436285 | 7.441982 | -62.77 | 95.52469 | 1016.21 | 32.87 | |
| 1.010597 | -0.08734 | 0.435008 | 7.441689 | -62.7535 | 95.55671 | 1016.21 | 32.87 | |
| 1.0106 | -0.0879 | 0.433731 | 7.441396 | -62.737 | 95.58872 | 1016.21 | 32.87 | |
| 1.010604 | -0.08845 | 0.432454 | 7.441103 | -62.7206 | 95.62074 | 1016.21 | 32.87 | |
| 1.010602 | -0.06954 | 0.476075 | 7.439483 | -62.6297 | 95.62143 | 1016.227 | 32.88726 | |
| 1.010603 | -0.06893 | 0.477476 | 7.439293 | -62.6191 | 95.63443 | 1016.228 | 32.88802 | |
| 1.010605 | -0.06833 | 0.478877 | 7.439103 | -62.6084 | 95.64744 | 1016.228 | 32.88878 | |
| 1.010604 | -0.14347 | 0.305539 | 7.437224 | -62.5016 | 95.69211 | 1016.203 | 32.88921 | |
| 1.010604 | -0.14664 | 0.298232 | 7.437093 | -62.4942 | 95.69589 | 1016.203 | 32.88953 | |

Location Properties

T2-4HTS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:39:21

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.81704 | 85.74921 | 125.7426 | 33193.34 | 30.45109 | 30063.28 | 18.94226 | 19.54113 | 30.12653 |
| ##### | 5.807898 | 85.61741 | 125.5486 | 33197 | 30.45244 | 30065.89 | 18.94408 | 19.54283 | 30.1232 |
| ##### | 5.798754 | 85.48561 | 125.3546 | 33200.66 | 30.45379 | 30068.5 | 18.9459 | 19.54453 | 30.11987 |
| ##### | 5.789611 | 85.35381 | 125.1607 | 33204.32 | 30.45514 | 30071.12 | 18.94771 | 19.54622 | 30.11655 |
| ##### | 5.725205 | 84.41956 | 123.7884 | 33204.54 | 30.46323 | 30067.1 | 18.94495 | 19.54361 | 30.11637 |
| ##### | 5.71863 | 84.32452 | 123.6486 | 33206.03 | 30.46414 | 30067.98 | 18.94556 | 19.54419 | 30.11501 |
| ##### | 5.712055 | 84.22948 | 123.5089 | 33207.52 | 30.46505 | 30068.86 | 18.94617 | 19.54476 | 30.11366 |
| ##### | 5.70548 | 84.13445 | 123.3691 | 33209.02 | 30.46596 | 30069.74 | 18.94679 | 19.54533 | 30.1123 |
| ##### | 5.650755 | 83.32309 | 122.1807 | 33201 | 30.47063 | 30060.05 | 18.94007 | 19.53904 | 30.11957 |
| ##### | 5.646465 | 83.26015 | 122.0883 | 33200.91 | 30.47109 | 30059.73 | 18.93985 | 19.53883 | 30.11966 |
| ##### | 5.642176 | 83.1972 | 121.996 | 33200.81 | 30.47154 | 30059.41 | 18.93962 | 19.53862 | 30.11975 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.009594 | -0.15991 | 0.267627 | 7.586613 | -70.9058 | 92.31149 | 1016.421 | 33.0306 | |
| 1.009595 | -0.16477 | 0.256409 | 7.585562 | -70.8469 | 92.3466 | 1016.42 | 33.02998 | |
| 1.009596 | -0.16964 | 0.245192 | 7.584512 | -70.788 | 92.38171 | 1016.418 | 33.02937 | |
| 1.009597 | -0.1745 | 0.233974 | 7.583461 | -70.729 | 92.41682 | 1016.416 | 33.02875 | |
| 1.009592 | -0.11585 | 0.369254 | 7.575231 | -70.2666 | 92.44721 | 1016.429 | 33.03021 | |
| 1.009592 | -0.11521 | 0.370723 | 7.574439 | -70.2221 | 92.46281 | 1016.429 | 33.03003 | |
| 1.009592 | -0.11458 | 0.372192 | 7.573647 | -70.1776 | 92.4784 | 1016.429 | 33.02984 | |
| 1.009593 | -0.11394 | 0.373661 | 7.572854 | -70.1331 | 92.494 | 1016.428 | 33.02966 | |
| 1.009586 | -0.10869 | 0.385769 | 7.564154 | -69.6444 | 92.56825 | 1016.438 | 33.03 | |
| 1.009586 | -0.10768 | 0.388111 | 7.563539 | -69.6098 | 92.57457 | 1016.439 | 33.03 | |
| 1.009585 | -0.10666 | 0.390454 | 7.562923 | -69.5753 | 92.58088 | 1016.439 | 33.03 | |

Location Properties

T3-4HT

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:56:21

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 5.676648 | 85.67313 | 125.3216 | 36600.31 | 31.32512 | 32662.59 | 20.79499 | 21.23068 | 222.7911 | |
| ##### 5.631362 | 85.16064 | 124.5787 | 37205.39 | 31.29415 | 33213.13 | 21.14705 | 21.58854 | 22.11817 | |
| ##### 5.586078 | 84.64816 | 123.8357 | 37810.47 | 31.26317 | 33763.68 | 21.49911 | 21.94639 | 0 | |
| ##### 5.185652 | 78.36628 | 114.6667 | 37382.87 | 31.17593 | 33438.91 | 21.30671 | 21.73529 | 26.75051 | |
| ##### 5.155147 | 77.90326 | 113.9916 | 37398.29 | 31.15879 | 33462.24 | 21.3231 | 21.75046 | 26.73933 | |
| ##### 5.124641 | 77.44025 | 113.3165 | 37413.72 | 31.14164 | 33485.57 | 21.33949 | 21.76562 | 26.72815 | |
| ##### 4.846184 | 73.12087 | 107.0349 | 37510.53 | 31.06561 | 33616.08 | 21.43134 | 21.85045 | 26.65927 | |
| ##### 4.825879 | 72.80796 | 106.5793 | 37518.17 | 31.06027 | 33625.97 | 21.4383 | 21.85688 | 26.65381 | |
| ##### 4.805573 | 72.49506 | 106.1237 | 37525.8 | 31.05494 | 33635.86 | 21.44526 | 21.86331 | 26.64835 | |
| ##### 4.785268 | 72.18214 | 105.6681 | 37533.44 | 31.0496 | 33645.76 | 21.45222 | 21.86974 | 26.6429 | |
| ##### 4.582124 | 69.08239 | 101.1373 | 37508.57 | 30.96602 | 33671.67 | 21.47027 | 21.88659 | 26.66058 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010682 | -0.07129 | 0.47205 | 7.383926 | -59.6408 | 99.69099 | 1016.13 | 33.38805 | |
| 1.010954 | -0.07129 | 0.472052 | 7.383239 | -59.5979 | 99.74471 | 1016.13 | 33.38882 | |
| 1.011225 | -0.07128 | 0.472053 | 7.382553 | -59.555 | 99.79842 | 1016.13 | 33.38958 | |
| 1.011112 | -0.06133 | 0.495024 | 7.376549 | -59.2029 | 99.9151 | 1016.112 | 33.40686 | |
| 1.01113 | -0.06082 | 0.496191 | 7.376092 | -59.1756 | 99.93203 | 1016.112 | 33.40794 | |
| 1.011148 | -0.06031 | 0.497357 | 7.375637 | -59.1482 | 99.94896 | 1016.111 | 33.40901 | |
| 1.011241 | -0.06063 | 0.496638 | 7.370318 | -58.8402 | 100.0026 | 1016.153 | 33.43488 | |
| 1.011248 | -0.06047 | 0.497001 | 7.369961 | -58.8194 | 100.0079 | 1016.155 | 33.43637 | |
| 1.011255 | -0.06031 | 0.497364 | 7.369604 | -58.7986 | 100.0132 | 1016.156 | 33.43786 | |
| 1.011262 | -0.06015 | 0.497727 | 7.369247 | -58.7779 | 100.0185 | 1016.158 | 33.43935 | |
| 1.011304 | -0.05806 | 0.502564 | 7.365789 | -58.5592 | 99.98724 | 1016.123 | 33.44789 | |

Location Properties

T3-4HTS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 17:53:52

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.359616 | 80.22509 | 116.9099 | 28064.59 | 32.69941 | 24466.57 | 15.10362 | 15.90327 | 35.63209 |
| ##### | 5.321812 | 79.62756 | 116.0566 | 28150.12 | 32.60275 | 24580.72 | 15.18102 | 15.97747 | 35.52388 |
| ##### | 5.318798 | 79.57845 | 115.9865 | 28153.56 | 32.59745 | 24585.9 | 15.18453 | 15.98083 | 35.51952 |
| ##### | 5.315783 | 79.52935 | 115.9164 | 28157.01 | 32.59214 | 24591.08 | 15.18804 | 15.9842 | 35.51516 |
| ##### | 5.291298 | 79.1183 | 115.3252 | 28123.64 | 32.55749 | 24576.13 | 15.17794 | 15.97449 | 35.55729 |
| ##### | 5.289427 | 79.08763 | 115.2812 | 28123.59 | 32.55418 | 24577.45 | 15.17883 | 15.97534 | 35.55735 |
| ##### | 5.287557 | 79.05696 | 115.2372 | 28123.54 | 32.55087 | 24578.76 | 15.17972 | 15.97619 | 35.55741 |
| ##### | 5.285686 | 79.02629 | 115.1931 | 28123.49 | 32.54755 | 24580.06 | 15.18061 | 15.97704 | 35.55747 |
| ##### | 5.274745 | 78.75286 | 114.8289 | 28106.05 | 32.4995 | 24584.55 | 15.18368 | 15.97996 | 35.57953 |
| ##### | 5.273772 | 78.73236 | 114.8007 | 28104.59 | 32.49662 | 24584.45 | 15.18362 | 15.97989 | 35.58138 |
| ##### | 5.272799 | 78.71186 | 114.7726 | 28103.13 | 32.49375 | 24584.36 | 15.18356 | 15.97983 | 35.58323 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.005997 | -0.07885 | 0.454594 | 7.55064 | -69.3761 | 89.37376 | 1016.14 | 33.33 | |
| 1.006087 | -0.09563 | 0.415888 | 7.539261 | -68.7128 | 89.50744 | 1016.148 | 33.33 | |
| 1.006091 | -0.09643 | 0.41405 | 7.538452 | -68.6659 | 89.51785 | 1016.149 | 33.33 | |
| 1.006096 | -0.09723 | 0.412211 | 7.537643 | -68.619 | 89.52827 | 1016.149 | 33.33 | |
| 1.0061 | -0.0704 | 0.474087 | 7.526659 | -67.9858 | 89.65697 | 1016.124 | 33.31318 | |
| 1.006102 | -0.06947 | 0.476238 | 7.525941 | -67.9443 | 89.66556 | 1016.123 | 33.31241 | |
| 1.006104 | -0.06854 | 0.478389 | 7.525223 | -67.9028 | 89.67415 | 1016.122 | 33.31163 | |
| 1.006106 | -0.06761 | 0.48054 | 7.524504 | -67.8612 | 89.68275 | 1016.121 | 33.31086 | |
| 1.006124 | -0.07089 | 0.472957 | 7.512265 | -67.1603 | 89.87045 | 1016.181 | 33.32795 | |
| 1.006125 | -0.07053 | 0.473794 | 7.511489 | -67.1158 | 89.88158 | 1016.184 | 33.32841 | |
| 1.006126 | -0.07017 | 0.474631 | 7.510714 | -67.0714 | 89.89272 | 1016.186 | 33.32888 | |

Location Properties

T4-1HB

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 14:53:09

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 4.034313 | 61.4935 | 89.88477 | 37615.63 | 31.75154 | 33318.99 | 21.22343 | 21.65734 | 26.5847 |
| ##### | 4.021118 | 61.14336 | 89.41434 | 37598.86 | 31.68471 | 33341.85 | 21.23942 | 21.6722 | 26.59655 |
| ##### | 4.020186 | 61.12132 | 89.3843 | 37597.84 | 31.68049 | 33343.32 | 21.24044 | 21.67315 | 26.59728 |
| ##### | 4.019254 | 61.09927 | 89.35426 | 37596.8 | 31.67628 | 33344.78 | 21.24147 | 21.67411 | 26.59801 |
| ##### | 3.988461 | 60.60448 | 88.64246 | 37629.22 | 31.54197 | 33449.69 | 21.31515 | 21.7423 | 26.57509 |
| ##### | 3.986786 | 60.57486 | 88.6005 | 37630.39 | 31.53447 | 33454.97 | 21.31886 | 21.74573 | 26.57427 |
| ##### | 3.985111 | 60.54525 | 88.55855 | 37631.56 | 31.52696 | 33460.26 | 21.32257 | 21.74917 | 26.57344 |
| ##### | 3.983436 | 60.51563 | 88.51659 | 37632.73 | 31.51946 | 33465.54 | 21.32629 | 21.7526 | 26.57261 |
| ##### | 3.9581 | 60.10938 | 87.92915 | 37646.23 | 31.48844 | 33495.22 | 21.34714 | 21.77189 | 26.56308 |
| ##### | 3.956367 | 60.08143 | 87.88884 | 37647.45 | 31.48436 | 33498.61 | 21.34953 | 21.7741 | 26.56223 |
| ##### | 3.954634 | 60.05348 | 87.84853 | 37648.66 | 31.48027 | 33502.01 | 21.35192 | 21.77631 | 26.56137 |

| Density (g/cm³) | Pressure (ft) | Depth (ft) | pH (pH) | pH (mV) | ORP (mV) | Barometric | Temperature | Marked |
|-----------------|---------------|------------|----------|----------|----------|------------|-------------|--------|
| 1.010856 | -0.06758 | 0.480591 | 7.355424 | -58.1276 | 142.4897 | 1016.649 | 40.23978 | |
| 1.010891 | -0.0632 | 0.490692 | 7.350543 | -57.836 | 142.2499 | 1016.694 | 40.23115 | |
| 1.010893 | -0.06323 | 0.490642 | 7.350225 | -57.8171 | 142.2346 | 1016.696 | 40.23074 | |
| 1.010895 | -0.06325 | 0.490592 | 7.349907 | -57.7982 | 142.2193 | 1016.698 | 40.23034 | |
| 1.010995 | -0.06953 | 0.476097 | 7.34584 | -57.5524 | 142.0153 | 1016.69 | 40.2303 | |
| 1.011001 | -0.06972 | 0.475656 | 7.345558 | -57.5354 | 142.0012 | 1016.69 | 40.23013 | |
| 1.011006 | -0.06991 | 0.475215 | 7.345276 | -57.5184 | 141.9872 | 1016.69 | 40.22996 | |
| 1.011011 | -0.07011 | 0.474774 | 7.344994 | -57.5014 | 141.9731 | 1016.691 | 40.22978 | |
| 1.011037 | -0.06567 | 0.48501 | 7.340018 | -57.2133 | 141.7656 | 1016.69 | 40.22139 | |
| 1.01104 | -0.06559 | 0.485184 | 7.339715 | -57.1955 | 141.7522 | 1016.69 | 40.22101 | |
| 1.011043 | -0.06552 | 0.485358 | 7.339411 | -57.1777 | 141.7388 | 1016.69 | 40.22063 | |

Location Properties

T4-1HS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 14:43:16

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 5.197385 | 87.27917 | 124.9206 | 40039.52 | 38.30245 | 31928.97 | 20.23737 | 20.75383 | 24.97554 | |
| ##### 5.196559 | 87.2569 | 124.8946 | 40052.16 | 38.27283 | 31952.9 | 20.25424 | 20.76939 | 24.96759 | |
| ##### 5.195734 | 87.23464 | 124.8686 | 40064.8 | 38.24321 | 31976.83 | 20.27112 | 20.78494 | 24.95965 | |
| ##### 5.194909 | 87.21239 | 124.8427 | 40077.43 | 38.21359 | 32000.77 | 20.288 | 20.8005 | 24.9517 | |
| ##### 5.225177 | 87.45518 | 125.2934 | 40168.82 | 38.15613 | 32102.15 | 20.35941 | 20.8664 | 24.89499 | |
| ##### 5.22594 | 87.4573 | 125.301 | 40176.19 | 38.15351 | 32109.32 | 20.36445 | 20.87106 | 24.8904 | |
| ##### 5.226703 | 87.45942 | 125.3085 | 40183.57 | 38.15088 | 32116.5 | 20.3695 | 20.87572 | 24.88581 | |
| ##### 5.227467 | 87.46153 | 125.3161 | 40190.94 | 38.14825 | 32123.67 | 20.37454 | 20.88039 | 24.88122 | |
| ##### 5.245555 | 87.56407 | 125.5465 | 40150.54 | 37.80537 | 32260.37 | 20.47178 | 20.96924 | 24.90627 | |
| ##### 5.246926 | 87.57304 | 125.565 | 40150.63 | 37.7889 | 32268.56 | 20.47759 | 20.97457 | 24.90621 | |
| ##### 5.248296 | 87.58201 | 125.5836 | 40150.73 | 37.77243 | 32276.76 | 20.4834 | 20.97989 | 24.90615 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.007752 | -0.06293 | 0.491321 | 6.951802 | -36.0799 | 255.2545 | 1016.759 | 41.44199 | |
| 1.007776 | -0.06252 | 0.492275 | 6.954195 | -36.2163 | 254.8555 | 1016.759 | 41.44146 | |
| 1.0078 | -0.0621 | 0.493229 | 6.956586 | -36.3527 | 254.4565 | 1016.759 | 41.44093 | |
| 1.007824 | -0.06169 | 0.494183 | 6.958979 | -36.4891 | 254.0576 | 1016.759 | 41.4404 | |
| 1.007899 | -0.06053 | 0.496868 | 6.989211 | -38.2142 | 248.4291 | 1016.742 | 41.44033 | |
| 1.007904 | -0.06045 | 0.497053 | 6.991218 | -38.3289 | 248.0623 | 1016.742 | 41.44017 | |
| 1.007908 | -0.06037 | 0.497237 | 6.993224 | -38.4437 | 247.6954 | 1016.741 | 41.44001 | |
| 1.007913 | -0.06029 | 0.497422 | 6.995231 | -38.5584 | 247.3286 | 1016.74 | 41.43985 | |
| 1.008116 | -0.06111 | 0.49553 | 7.023227 | -40.1316 | 241.975 | 1016.723 | 41.43126 | |
| 1.008126 | -0.06112 | 0.495506 | 7.025069 | -40.2356 | 241.6263 | 1016.722 | 41.43087 | |
| 1.008137 | -0.06113 | 0.495482 | 7.02691 | -40.3396 | 241.2777 | 1016.721 | 41.43049 | |

Location Properties

T4-2HB

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 15:15:37

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 3.587692 | 54.1633 | 79.33567 | 38174.99 | 31.0113 | 34243.32 | 21.87428 | 22.25816 | 26.19516 | |
| ##### 3.584656 | 54.11164 | 79.26158 | 38175.68 | 31.00727 | 34246.3 | 21.87637 | 22.26009 | 26.19468 | |
| ##### 3.556258 | 53.61324 | 78.55323 | 38103.44 | 30.85463 | 34271.14 | 21.89346 | 22.27624 | 26.24436 | |
| ##### 3.554166 | 53.57646 | 78.50085 | 38100.18 | 30.84673 | 34272.85 | 21.89464 | 22.27736 | 26.2466 | |
| ##### 3.552074 | 53.53969 | 78.44848 | 38096.92 | 30.83883 | 34274.57 | 21.89583 | 22.27847 | 26.24884 | |
| ##### 3.520643 | 53.03193 | 77.71233 | 38111.64 | 30.7855 | 34319.27 | 21.92728 | 22.30753 | 26.23871 | |
| ##### 3.518686 | 52.99954 | 77.66565 | 38110.95 | 30.78025 | 34321.74 | 21.92901 | 22.30913 | 26.23918 | |
| ##### 3.516729 | 52.96715 | 77.61897 | 38110.25 | 30.775 | 34324.21 | 21.93074 | 22.31074 | 26.23966 | |
| ##### 3.514773 | 52.93476 | 77.5723 | 38109.56 | 30.76975 | 34326.68 | 21.93247 | 22.31234 | 26.24013 | |
| ##### 3.505829 | 52.69146 | 77.24108 | 38125.01 | 30.72242 | 34368.59 | 21.96196 | 22.33959 | 26.2295 | |
| ##### 3.50483 | 52.67076 | 77.21207 | 38125.93 | 30.71919 | 34371.33 | 21.96389 | 22.34137 | 26.22887 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2: | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|-------------|-----------|----------|-----------|-----------|--------|
| 1.011589 | -0.06486 | 0.486868 | 7.401896 | -60.6051 | 116.9008 | 1016.55 | 36.18052 | |
| 1.011592 | -0.06483 | 0.486936 | 7.40076 | -60.5403 | 116.8951 | 1016.55 | 36.17996 | |
| 1.011656 | -0.07296 | 0.468198 | 7.394924 | -60.1839 | 116.7834 | 1016.612 | 36.16256 | |
| 1.011659 | -0.07337 | 0.46725 | 7.39426 | -60.145 | 116.7766 | 1016.614 | 36.16161 | |
| 1.011663 | -0.07378 | 0.466302 | 7.393596 | -60.1061 | 116.7697 | 1016.617 | 36.16067 | |
| 1.011704 | -0.06433 | 0.488093 | 7.390864 | -59.943 | 116.6454 | 1016.584 | 36.15227 | |
| 1.011707 | -0.06407 | 0.488696 | 7.390616 | -59.9281 | 116.6378 | 1016.583 | 36.15157 | |
| 1.01171 | -0.06381 | 0.489299 | 7.390368 | -59.9132 | 116.6302 | 1016.583 | 36.15087 | |
| 1.011713 | -0.06355 | 0.489903 | 7.390121 | -59.8983 | 116.6226 | 1016.583 | 36.15017 | |
| 1.011751 | -0.07073 | 0.473324 | 7.378376 | -59.2198 | 116.5022 | 1016.555 | 36.12402 | |
| 1.011753 | -0.0709 | 0.472939 | 7.377781 | -59.1853 | 116.4944 | 1016.553 | 36.12266 | |

Location Properties

T4-2HS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 15:09:12

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 6.497194 | 100.552 | 146.6197 | 38635.75 | 32.59207 | 33742.76 | 21.52368 | 21.93279 | 25.88277 | |
| ##### 6.492029 | 100.522 | 146.5714 | 38705.9 | 32.61312 | 33792.16 | 21.5586 | 21.9649 | 25.83586 | |
| ##### 6.491697 | 100.5201 | 146.5683 | 38710.42 | 32.61448 | 33795.34 | 21.56085 | 21.96697 | 25.83284 | |
| ##### 6.491364 | 100.5181 | 146.5652 | 38714.93 | 32.61584 | 33798.52 | 21.5631 | 21.96904 | 25.82982 | |
| ##### 6.491033 | 100.5162 | 146.5621 | 38719.45 | 32.61719 | 33801.7 | 21.56534 | 21.9711 | 25.8268 | |
| ##### 6.492444 | 100.5319 | 146.5895 | 38725.78 | 32.62241 | 33804.27 | 21.56717 | 21.97278 | 25.8226 | |
| ##### 6.492372 | 100.5318 | 146.5894 | 38727.88 | 32.62319 | 33805.67 | 21.56816 | 21.97368 | 25.8212 | |
| ##### 6.4923 | 100.5317 | 146.5894 | 38729.97 | 32.62397 | 33807.06 | 21.56914 | 21.97459 | 25.8198 | |
| ##### 6.492228 | 100.5316 | 146.5893 | 38732.07 | 32.62474 | 33808.46 | 21.57013 | 21.9755 | 25.81839 | |
| ##### 6.514012 | 100.8447 | 147.045 | 38711.13 | 32.59843 | 33805 | 21.56767 | 21.97325 | 25.83237 | |
| ##### 6.515014 | 100.8592 | 147.0661 | 38710.59 | 32.59742 | 33805.11 | 21.56774 | 21.97332 | 25.83273 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010791 | -0.05536 | 0.508778 | 7.503412 | -66.693 | 119.7756 | 1016.57 | 37.37 | |
| 1.01081 | -0.06492 | 0.486742 | 7.497863 | -66.3806 | 120.8947 | 1016.598 | 37.35126 | |
| 1.010811 | -0.06553 | 0.485324 | 7.497506 | -66.3605 | 120.9667 | 1016.6 | 37.35005 | |
| 1.010812 | -0.06615 | 0.483906 | 7.497149 | -66.3404 | 121.0387 | 1016.601 | 37.34885 | |
| 1.010813 | -0.06676 | 0.482488 | 7.496792 | -66.3203 | 121.1107 | 1016.603 | 37.34764 | |
| 1.010813 | -0.04254 | 0.538365 | 7.495508 | -66.2454 | 121.0233 | 1016.625 | 37.32468 | |
| 1.010813 | -0.04172 | 0.540249 | 7.495308 | -66.2341 | 121.0485 | 1016.626 | 37.32318 | |
| 1.010814 | -0.0409 | 0.542134 | 7.495108 | -66.2227 | 121.0736 | 1016.628 | 37.32169 | |
| 1.010814 | -0.04009 | 0.544018 | 7.494907 | -66.2113 | 121.0988 | 1016.63 | 37.32019 | |
| 1.010821 | -0.05651 | 0.506124 | 7.491545 | -66.0147 | 121.0509 | 1016.575 | 37.30269 | |
| 1.010822 | -0.05686 | 0.505332 | 7.491343 | -66.003 | 121.0519 | 1016.573 | 37.30138 | |

Location Properties

T4-3HB

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 15:37:34

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 3.775655 | 56.45497 | 82.85493 | 38627.64 | 30.11527 | 35189.57 | 22.54131 | 22.87322 | 25.8882 |
| ##### | 3.774983 | 56.44358 | 82.83875 | 38628.8 | 30.11246 | 35192.35 | 22.54327 | 22.87502 | 25.88742 |
| ##### | 3.774311 | 56.43219 | 82.82256 | 38629.96 | 30.10965 | 35195.13 | 22.54523 | 22.87683 | 25.88664 |
| ##### | 3.770671 | 56.34723 | 82.70048 | 38639.85 | 30.09645 | 35212.21 | 22.5573 | 22.88794 | 25.88002 |
| ##### | 3.77032 | 56.34032 | 82.69059 | 38641.08 | 30.09526 | 35214.07 | 22.55861 | 22.88914 | 25.87919 |
| ##### | 3.769969 | 56.3334 | 82.6807 | 38642.32 | 30.09407 | 35215.92 | 22.55992 | 22.89035 | 25.87837 |
| ##### | 3.767166 | 56.26462 | 82.58469 | 38551.83 | 30.05405 | 35157.95 | 22.51859 | 22.85267 | 25.93913 |
| ##### | 3.766961 | 56.25972 | 82.57779 | 38547.89 | 30.05193 | 35155.65 | 22.51694 | 22.85118 | 25.94178 |
| ##### | 3.766755 | 56.25483 | 82.57088 | 38543.95 | 30.04981 | 35153.36 | 22.5153 | 22.84968 | 25.94443 |
| ##### | 3.766549 | 56.24993 | 82.56397 | 38540 | 30.04769 | 35151.06 | 22.51366 | 22.84819 | 25.94707 |
| ##### | 3.764532 | 56.21432 | 82.51704 | 38577.71 | 30.03255 | 35194.74 | 22.5446 | 22.87658 | 25.92171 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2: | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|-------------|-----------|----------|-----------|-----------|--------|
| 1.012382 | -0.07523 | 0.462948 | 7.34401 | -57.1851 | 106.4135 | 1016.407 | 34.08014 | |
| 1.012385 | -0.07493 | 0.463636 | 7.343792 | -57.1725 | 106.4095 | 1016.408 | 34.07997 | |
| 1.012387 | -0.07464 | 0.464323 | 7.343575 | -57.16 | 106.4055 | 1016.41 | 34.0798 | |
| 1.0124 | -0.07535 | 0.462681 | 7.339824 | -56.9443 | 106.3289 | 1016.339 | 34.07119 | |
| 1.012402 | -0.07528 | 0.462839 | 7.339593 | -56.931 | 106.3242 | 1016.336 | 34.07079 | |
| 1.012403 | -0.07521 | 0.462996 | 7.339363 | -56.9178 | 106.3195 | 1016.333 | 34.0704 | |
| 1.012385 | -0.07521 | 0.462991 | 7.33673 | -56.7644 | 106.25 | 1016.358 | 34.06176 | |
| 1.012385 | -0.07522 | 0.462968 | 7.336536 | -56.7532 | 106.2453 | 1016.358 | 34.06121 | |
| 1.012384 | -0.07523 | 0.462944 | 7.336342 | -56.7419 | 106.2407 | 1016.358 | 34.06065 | |
| 1.012384 | -0.07524 | 0.462921 | 7.336149 | -56.7307 | 106.236 | 1016.357 | 34.06009 | |
| 1.012412 | -0.07771 | 0.457229 | 7.33425 | -56.6194 | 106.1561 | 1016.385 | 34.06028 | |

Location Properties

T4-3HS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 15:29:23

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 6.319431 | 96.45768 | 140.8202 | 36466.36 | 32.11836 | 32094.85 | 20.47702 | 20.86165 | 639581.5 | |
| ##### 6.142983 | 94.13289 | 137.3835 | 37227.02 | 32.19315 | 32727.66 | 20.88485 | 21.27298 | 340439.5 | |
| ##### 6.118117 | 93.95824 | 137.1264 | 37841.91 | 32.1972 | 33267.17 | 21.22925 | 21.62366 | 181720.4 | |
| ##### 6.09325 | 93.7836 | 136.8694 | 38456.8 | 32.20125 | 33806.68 | 21.57366 | 21.97435 | 23001.39 | |
| ##### 6.068384 | 93.60896 | 136.6122 | 39071.69 | 32.2053 | 34346.2 | 21.91807 | 22.32503 | 0 | |
| ##### 6.020576 | 92.70773 | 135.2927 | 38524.41 | 32.24169 | 33843.32 | 21.59428 | 21.99816 | 25.95758 | |
| ##### 6.014787 | 92.62206 | 135.1666 | 38525.44 | 32.24461 | 33842.58 | 21.59376 | 21.99767 | 25.95687 | |
| ##### 6.008997 | 92.53637 | 135.0406 | 38526.48 | 32.24753 | 33841.83 | 21.59324 | 21.99719 | 25.95617 | |
| ##### 5.975344 | 92.03808 | 134.317 | 38610.07 | 32.24497 | 33916.71 | 21.64615 | 22.04586 | 25.9 | |
| ##### 5.972587 | 91.99673 | 134.2567 | 38613.39 | 32.24558 | 33919.28 | 21.64797 | 22.04753 | 25.89777 | |
| ##### 5.969829 | 91.95538 | 134.1964 | 38616.71 | 32.24619 | 33921.85 | 21.64978 | 22.0492 | 25.89553 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010178 | -0.07071 | 0.473381 | 7.535839 | -68.4377 | 105.7362 | 1016.457 | 34.73051 | |
| 1.010455 | -0.07803 | 0.456502 | 7.518459 | -67.4596 | 106.0883 | 1016.406 | 34.73034 | |
| 1.010709 | -0.07862 | 0.455137 | 7.517963 | -67.432 | 106.1013 | 1016.404 | 34.73018 | |
| 1.010963 | -0.07921 | 0.453773 | 7.517468 | -67.4044 | 106.1142 | 1016.403 | 34.73002 | |
| 1.011217 | -0.0798 | 0.452408 | 7.516973 | -67.3769 | 106.1272 | 1016.402 | 34.72986 | |
| 1.010964 | -0.07041 | 0.474077 | 7.512137 | -67.1059 | 106.199 | 1016.41 | 34.72124 | |
| 1.010963 | -0.07014 | 0.474698 | 7.511796 | -67.0869 | 106.2053 | 1016.409 | 34.72086 | |
| 1.010961 | -0.06987 | 0.475319 | 7.511456 | -67.0679 | 106.2115 | 1016.409 | 34.72047 | |
| 1.011002 | -0.07803 | 0.456484 | 7.506765 | -66.8001 | 106.2442 | 1016.426 | 34.7288 | |
| 1.011003 | -0.07823 | 0.456024 | 7.50646 | -66.7828 | 106.2472 | 1016.427 | 34.72902 | |
| 1.011004 | -0.07843 | 0.455563 | 7.506154 | -66.7654 | 106.2501 | 1016.428 | 34.72923 | |

Location Properties

T4-4HB

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 15:56:48

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO | Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 4.94838 | 75.41523 | 110.4013 | 40329.39 | 31.04364 | 36155.82 | 23.23252 | 23.50128 | 24.79579 | |
| ##### | 4.833828 | 73.38275 | 107.5005 | 40312.55 | 30.88836 | 36237.1 | 23.28988 | 23.55411 | 24.80617 | |
| ##### | 4.824427 | 73.2237 | 107.2718 | 40310.85 | 30.87894 | 36241.42 | 23.29292 | 23.55692 | 24.80722 | |
| ##### | 4.815026 | 73.06464 | 107.043 | 40309.16 | 30.86952 | 36245.73 | 23.29597 | 23.55973 | 24.80826 | |
| ##### | 4.805624 | 72.90559 | 106.8143 | 40307.46 | 30.86011 | 36250.05 | 23.29901 | 23.56254 | 24.80931 | |
| ##### | 4.705796 | 71.36239 | 104.5564 | 40220.35 | 30.7224 | 36257.5 | 23.30375 | 23.56737 | 24.86305 | |
| ##### | 4.698852 | 71.24994 | 104.3933 | 40216.02 | 30.71314 | 36259.36 | 23.30504 | 23.56859 | 24.86572 | |
| ##### | 4.691907 | 71.13749 | 104.2302 | 40211.7 | 30.70389 | 36261.23 | 23.30634 | 23.5698 | 24.86839 | |
| ##### | 4.629267 | 70.14288 | 102.7903 | 40233.27 | 30.65364 | 36312.14 | 23.34243 | 23.60289 | 24.85506 | |
| ##### | 4.624473 | 70.06744 | 102.6806 | 40232.51 | 30.64867 | 36314.56 | 23.34413 | 23.60446 | 24.85552 | |
| ##### | 4.619678 | 69.992 | 102.571 | 40231.75 | 30.64371 | 36316.98 | 23.34583 | 23.60603 | 24.85599 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.012589 | -0.07424 | 0.465236 | 7.516936 | -67.0726 | 101.3613 | 1016.269 | 33.36985 | |
| 1.012683 | -0.066 | 0.484245 | 7.506253 | -66.4485 | 101.3898 | 1016.287 | 33.37862 | |
| 1.012689 | -0.06573 | 0.484867 | 7.505558 | -66.4076 | 101.3933 | 1016.288 | 33.37901 | |
| 1.012694 | -0.06546 | 0.485489 | 7.504861 | -66.3667 | 101.3968 | 1016.288 | 33.37939 | |
| 1.012699 | -0.06519 | 0.486111 | 7.504166 | -66.3258 | 101.4003 | 1016.289 | 33.37977 | |
| 1.012749 | -0.06205 | 0.493365 | 7.495472 | -65.8181 | 101.4061 | 1016.245 | 33.3709 | |
| 1.012753 | -0.06175 | 0.494039 | 7.494866 | -65.7827 | 101.407 | 1016.243 | 33.37067 | |
| 1.012757 | -0.06146 | 0.494714 | 7.494261 | -65.7473 | 101.408 | 1016.242 | 33.37043 | |
| 1.012801 | -0.05525 | 0.50905 | 7.486758 | -65.3145 | 101.3878 | 1016.284 | 33.37877 | |
| 1.012804 | -0.05491 | 0.509819 | 7.486254 | -65.2853 | 101.3871 | 1016.284 | 33.37897 | |
| 1.012807 | -0.05458 | 0.510587 | 7.48575 | -65.2561 | 101.3864 | 1016.286 | 33.37917 | |

Location Properties

T4-4HS

Location Name = Device Location

Report Properties

Start Time = 2022-06-07 15:51:58

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 6.590887 | 99.50237 | 145.5623 | 36221.94 | 31.3437 | 32324.45 | 20.71335 | 21.01089 | 1144.485 | |
| ##### 6.563735 | 99.5704 | 145.6657 | 37762.26 | 31.32772 | 33699.05 | 21.59469 | 21.90439 | 605.0217 | |
| ##### 6.366935 | 96.79195 | 141.5662 | 38129.68 | 31.40468 | 33979.26 | 21.77078 | 22.08652 | 487.157 | |
| ##### 6.349409 | 96.73586 | 141.4831 | 38789.39 | 31.40224 | 34565.85 | 22.14672 | 22.4678 | 264.1908 | |
| ##### 6.331883 | 96.67977 | 141.4 | 39449.11 | 31.39981 | 35152.43 | 22.52267 | 22.84908 | 41.22462 | |
| ##### 6.314358 | 96.62368 | 141.3169 | 40108.83 | 31.39737 | 35739.02 | 22.89861 | 23.23036 | 0 | |
| ##### 6.241485 | 95.38297 | 139.484 | 39487.72 | 31.43318 | 35166.67 | 22.52997 | 22.85834 | 25.32433 | |
| ##### 6.2342 | 95.2766 | 139.327 | 39487.21 | 31.43603 | 35164.5 | 22.52844 | 22.85693 | 25.32466 | |
| ##### 6.226914 | 95.17025 | 139.17 | 39486.69 | 31.43888 | 35162.34 | 22.52691 | 22.85552 | 25.32499 | |
| ##### 6.219628 | 95.06389 | 139.013 | 39486.18 | 31.44172 | 35160.18 | 22.52538 | 22.85411 | 25.32532 | |
| ##### 6.171394 | 94.3167 | 137.9223 | 39444.19 | 31.46846 | 35106.83 | 22.48758 | 22.81944 | 25.35228 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010617 | -0.08587 | 0.438404 | 7.545807 | -68.8222 | 99.83382 | 1016.318 | 33.45 | |
| 1.011276 | -0.08716 | 0.435439 | 7.558482 | -69.5375 | 99.63398 | 1016.319 | 33.45 | |
| 1.011381 | -0.0782 | 0.456095 | 7.544314 | -68.7447 | 99.9801 | 1016.293 | 33.45 | |
| 1.011661 | -0.07846 | 0.45551 | 7.543266 | -68.6859 | 99.99426 | 1016.293 | 33.45 | |
| 1.011941 | -0.07871 | 0.454924 | 7.542217 | -68.6271 | 100.0084 | 1016.292 | 33.45 | |
| 1.012221 | -0.07896 | 0.454338 | 7.541168 | -68.5683 | 100.0226 | 1016.291 | 33.45 | |
| 1.011935 | -0.06539 | 0.485657 | 7.537743 | -68.3788 | 100.1457 | 1016.291 | 33.44144 | |
| 1.011933 | -0.06464 | 0.487384 | 7.53743 | -68.3614 | 100.1559 | 1016.29 | 33.44106 | |
| 1.01193 | -0.06389 | 0.489111 | 7.537117 | -68.344 | 100.1662 | 1016.29 | 33.44069 | |
| 1.011928 | -0.06314 | 0.490838 | 7.536803 | -68.3267 | 100.1764 | 1016.289 | 33.44031 | |
| 1.011891 | -0.07789 | 0.456807 | 7.533189 | -68.1247 | 100.2828 | 1016.325 | 33.44917 | |

Location Properties

BG-1LT

Location Name = Device Location

Report Properties

Start Time = 2022-06-08 10:19:58

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 3.045473 | 44.35597 | 65.3381 | 33790.14 | 29.65368 | 31031.88 | 19.614 | 20.17072 | 29.59447 | |
| ##### 3.045323 | 44.35361 | 65.33492 | 33795.55 | 29.65152 | 31038.01 | 19.61827 | 20.17471 | 29.58971 | |
| ##### 3.045174 | 44.35125 | 65.33173 | 33800.96 | 29.64936 | 31044.14 | 19.62254 | 20.17869 | 29.58496 | |
| ##### 3.041358 | 44.26036 | 65.2021 | 33671.89 | 29.62611 | 30938.22 | 19.5486 | 20.10985 | 29.69842 | |
| ##### 3.041135 | 44.25565 | 65.19543 | 33668.32 | 29.62431 | 30935.93 | 19.54699 | 20.10835 | 29.70155 | |
| ##### 3.040912 | 44.25094 | 65.18876 | 33664.76 | 29.6225 | 30933.63 | 19.54538 | 20.10686 | 29.70469 | |
| ##### 3.042795 | 44.26184 | 65.21004 | 33702.52 | 29.60384 | 30978.48 | 19.57658 | 20.13601 | 29.67138 | |
| ##### 3.042813 | 44.26068 | 65.20867 | 33702.05 | 29.60253 | 30978.77 | 19.57677 | 20.1362 | 29.67179 | |
| ##### 3.04283 | 44.25954 | 65.2073 | 33701.58 | 29.60122 | 30979.05 | 19.57696 | 20.13638 | 29.6722 | |
| ##### 3.042847 | 44.25838 | 65.20592 | 33701.11 | 29.59991 | 30979.33 | 19.57715 | 20.13656 | 29.67261 | |
| ##### 3.040952 | 44.24755 | 65.18742 | 33808.23 | 29.58004 | 31088.65 | 19.65331 | 20.20762 | 29.57865 | |

| Density (g/cm³) | Pressure (kPa) | Depth (ft) | pH (pH) | pH mV (mV) | ORP (mV) | Barometric (kPa) | Temperature (°C) | Marked |
|-----------------|----------------|------------|----------|------------|----------|------------------|------------------|--------|
| 1.010352 | -0.09319 | 0.421528 | 6.523682 | -11.0641 | 181.9326 | 1018.878 | 29.87472 | |
| 1.010356 | -0.09392 | 0.419837 | 6.524871 | -11.1308 | 181.9182 | 1018.878 | 29.8772 | |
| 1.01036 | -0.09466 | 0.418146 | 6.526061 | -11.1974 | 181.9038 | 1018.879 | 29.87967 | |
| 1.010313 | -0.07003 | 0.474951 | 6.542793 | -12.1356 | 181.7093 | 1018.888 | 29.92227 | |
| 1.010312 | -0.06947 | 0.476244 | 6.543898 | -12.1975 | 181.6962 | 1018.889 | 29.92502 | |
| 1.010311 | -0.06891 | 0.477538 | 6.545003 | -12.2595 | 181.683 | 1018.889 | 29.92776 | |
| 1.01034 | -0.06366 | 0.48964 | 6.562715 | -13.2527 | 181.4821 | 1018.889 | 29.9539 | |
| 1.010341 | -0.06298 | 0.491201 | 6.563853 | -13.3165 | 181.469 | 1018.89 | 29.95591 | |
| 1.010342 | -0.06231 | 0.492763 | 6.564991 | -13.3803 | 181.456 | 1018.89 | 29.95792 | |
| 1.010342 | -0.06163 | 0.494324 | 6.56613 | -13.4442 | 181.443 | 1018.89 | 29.95993 | |
| 1.010405 | -0.0595 | 0.499239 | 6.581314 | -14.2941 | 181.2518 | 1018.838 | 29.99361 | |

EQUIPMENT CALIBRATION LOG

Field Technician: Karin Sjogren Date: 8/23/22 Time (Calibration): 0718 Time (Mid-day Check): 1202
 AquaTroll SN: 789317 Turbidity Meter Type: LaMotte 2020 SN: 7042-3818
 Project: August 2022 McManus Supplemental Weather Conditions: 90°/72°, 50%

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | <u>103.87</u> <u>99.85</u> | |
| Specific Conductance (µS/cm) | 21470032 04/23 | <u>25.21</u> | 4490 | <u>4551.7</u> | |
| pH (4) | 21470032 04/23 | <u>25.40</u> | 4 | <u>4.03</u> | |
| pH (7) | 21380102 04/23 | <u>25.72</u> | 7 | <u>7.04</u> | |
| pH (10) | 20080056 04/23 | <u>28.97</u> | 10 | <u>10.01</u> | |
| ORP (mV) | 21140143 04/23 | <u>26.03</u> | 228 | <u>222.0</u> | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|-------------------|--------------------|------------------|---|----------|
| Turbidity 0 NTU | 0 | <u>0.03</u> | +/-0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | 1 | <u>0.97</u> | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | 10 | <u>10.12</u> | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|---|----------|
| Mid-Day pH (4) check | <u>27.05</u> | 4 | <u>4.09</u> | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | <u>27.05</u> | 7 | <u>7.14</u> | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | <u>27.35</u> | 10 | <u>10.10</u> | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

Calibration Report

Instrument Aqua TROLL 400

Serial Number 789317

Created 8/23/2022

Sensor

Sensor RDO

Serial Number 878599

Last Calibrated 8/23/2022

Calibration Details

Slope 0.9533266

Offset 0.00 mg/L

Calibration point 100%

Concentration 8.52 mg/L

Temperature 26.00 °C

Barometric Pressure 1,014.8 mbar

Sensor

Sensor Conductivity

Serial Number 789317

Last Calibrated 8/23/2022

Calibration Details

Cell Constant 0.992

Reference Temperature 25.00 °C

TDS Conversion Factor (ppm) 0.65

Sensor

| | |
|-----------------|------------------|
| Sensor | Level |
| Serial Number | 787062 |
| Last Calibrated | Factory Defaults |

Sensor

| | |
|-----------------|-----------|
| Sensor | pH/ORP |
| Serial Number | 21172 |
| Last Calibrated | 8/23/2022 |

Calibration Details

| | |
|--------------------------|---|
| Total Calibration Points | 3 |
|--------------------------|---|

Calibration Point 1

| | |
|--------------|----------|
| pH of Buffer | 4.00 pH |
| pH mV | 116.5 mV |
| Temperature | 25.41 °C |

Calibration Point 2

| | |
|--------------|----------|
| pH of Buffer | 7.00 pH |
| pH mV | -57.0 mV |
| Temperature | 25.79 °C |

Calibration Point 3

| | |
|--------------|-----------|
| pH of Buffer | 10.00 pH |
| pH mV | -219.0 mV |
| Temperature | 25.98 °C |

Slope and Offset 1

| | |
|--------|--------------|
| Slope | -57.82 mV/pH |
| Offset | -57.0 mV |

Slope and Offset 2

Slope -54.03 mV/pH

Offset -57.0 mV

ORP

ORP Solution ORP Standard

Offset 63.3 mV

Temperature 26.03 °C

Location Properties

T1-1HT

Location Name = Device Location

Report Properties

Start Time = 2022-08-23 08:28:00

Time Offset = -04:00:00

Duration = 00:00:24

Readings = 13

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 893479

Instrument Properties

Device Model = PowerPack

Device SN = 890670

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.154381 | 73.49384 | 114.9708 | 37302.33 | 27.07101 | 35852.84 | 22.99003 | 23.30435 | 26.84091 |
| ##### | 5.154381 | 73.49384 | 114.9708 | 37302.33 | 27.07101 | 35852.84 | 22.99003 | 23.30435 | 26.84091 |
| ##### | 5.154381 | 73.49384 | 114.9708 | 37302.33 | 27.07101 | 35852.84 | 22.99003 | 23.30435 | 26.84091 |
| ##### | 4.605711 | 65.64915 | 102.7006 | 37256.63 | 27.04988 | 35781.96 | 22.93978 | 23.25828 | 26.88988 |
| ##### | 4.564614 | 65.06157 | 101.7815 | 37253.2 | 27.0483 | 35776.66 | 22.93602 | 23.25483 | 26.89355 |
| ##### | 4.523519 | 64.474 | 100.8625 | 37249.78 | 27.04672 | 35771.35 | 22.93225 | 23.25137 | 26.89722 |
| ##### | 4.482422 | 63.88642 | 99.94344 | 37246.36 | 27.04514 | 35766.04 | 22.92849 | 23.24792 | 26.90088 |
| ##### | 4.388475 | 61.93077 | 96.88403 | 37187.55 | 27.04699 | 35779.79 | 22.93813 | 23.25686 | 26.89662 |
| ##### | 4.366315 | 61.58604 | 96.3448 | 37183.38 | 27.04638 | 35778.1 | 22.93693 | 23.25576 | 26.89802 |
| ##### | 4.344155 | 61.24131 | 95.80557 | 37179.21 | 27.04578 | 35776.41 | 22.93573 | 23.25467 | 26.89942 |
| ##### | 4.242312 | 60.34759 | 94.41195 | 37192.15 | 27.03904 | 35795.42 | 22.94914 | 23.26702 | 26.88916 |
| ##### | 4.23252 | 60.22058 | 94.21349 | 37191.3 | 27.03864 | 35796.07 | 22.9496 | 23.26745 | 26.88894 |
| ##### | 4.222727 | 60.09358 | 94.01501 | 37190.44 | 27.03825 | 35796.73 | 22.95006 | 23.26788 | 26.88871 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013688 | -0.07168 | 0.471146 | 6.536074 | -38.0081 | 244.48 | 1015.7 | 27.86 | |
| 1.013688 | -0.07168 | 0.471146 | 6.536074 | -38.0081 | 244.48 | 1015.7 | 27.86 | |
| 1.013688 | -0.07168 | 0.471146 | 6.536074 | -38.0081 | 244.48 | 1015.7 | 27.86 | |
| 1.013648 | -0.06962 | 0.475897 | 6.572054 | -39.9836 | 249.388 | 1015.71 | 27.86 | |
| 1.013645 | -0.06946 | 0.476253 | 6.574749 | -40.1316 | 249.7556 | 1015.71 | 27.86 | |
| 1.013642 | -0.06931 | 0.476609 | 6.577444 | -40.2796 | 250.1232 | 1015.711 | 27.86 | |
| 1.013639 | -0.06916 | 0.476965 | 6.580139 | -40.4276 | 250.4908 | 1015.712 | 27.86 | |
| 1.01365 | -0.06765 | 0.480433 | 6.6057 | -41.8303 | 250.595 | 1015.692 | 27.8688 | |
| 1.013649 | -0.06752 | 0.480745 | 6.608037 | -41.9586 | 250.7597 | 1015.692 | 27.86921 | |
| 1.013648 | -0.06738 | 0.481058 | 6.610373 | -42.0868 | 250.9244 | 1015.691 | 27.86961 | |
| 1.01366 | -0.06498 | 0.486603 | 6.632581 | -43.3059 | 251.0487 | 1015.716 | 27.88639 | |
| 1.013661 | -0.06483 | 0.486946 | 6.634285 | -43.3995 | 251.0873 | 1015.716 | 27.88731 | |
| 1.013662 | -0.06468 | 0.487288 | 6.63599 | -43.493 | 251.1259 | 1015.717 | 27.88822 | |

EQUIPMENT CALIBRATION LOG

| | | | |
|--|---|---------------------------------|-----------------------|
| Field Technician: <u>William Laaker</u> | Date: <u>9/22/22</u> | Time (Calibration): <u>5:50</u> | Time (Mid-day Check): |
| AquaTroll SN: <u>789301</u> | Turbidity Meter Type: <u>LaMotte 2020</u> | SN: <u>9453-4417</u> | |
| Project: <u>Sept. 2022 Surface Water</u> | Weather Conditions: <u>96°/71° sunny</u> | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | <u>99.09</u> | |
| Specific Conductance (µS/cm) | <u>21470032 04/23</u> | <u>23.31</u> | <u>4490</u> | 44 <u>4509.9</u> | |
| pH (4) | <u>21470032 04/23</u> | <u>23.29</u> | <u>4</u> | <u>4.01</u> | |
| pH (7) | <u>21380102 04/23</u> | <u>23.73</u> | <u>7</u> | <u>7.00</u> | |
| pH (10) | <u>20080056 04/23</u> | <u>23.97</u> | <u>10</u> | <u>10.01</u> | |
| ORP (mV) | <u>21140143 04/23</u> | <u>24.02</u> | <u>228</u> | <u>226.2</u> | |

| | | Value of Standard | Instrument Reading | Acceptable Range | Pass? | Comments |
|------------------|--|-------------------|--------------------|--------------------|--------|----------|
| Turbidity 0 NTU | | <u>0</u> | <u>0.00</u> | <u>+/-0.5 NTU</u> | Yes No | |
| Turbidity 1 NTU | | <u>1</u> | <u>0.91</u> | <u>+/- 0.5 NTU</u> | Yes No | |
| Turbidity 10 NTU | | <u>10</u> | <u>9.73</u> | <u>+/- 0.5 NTU</u> | Yes No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|-------------------|--------|----------|
| Mid-Day pH (4) check | | <u>4</u> | | <u>+/- 0.1 SU</u> | Yes No | |
| Mid-Day pH (7) check | | <u>7</u> | | <u>+/- 0.1 SU</u> | Yes No | |
| Mid-Day pH (10) check | | <u>10</u> | | <u>+/- 0.1 SU</u> | Yes No | |

EQUIPMENT CALIBRATION LOG

| | | | |
|-----------------------------------|------------------------------------|---------------------------|-----------------------|
| Field Technician: William Laaker | Date: 9/27/22 | Time (Calibration): 13:05 | Time (Mid-day Check): |
| AquaTroll SN 789301 | Turbidity Meter Type: LaMotte 2020 | SN 9453-4417 | |
| Project: Sept. 2022 Surface Water | Weather Conditions: 85°/65° sunny | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 98.14 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 28.57 | 4490 | 4453.5 | |
| pH (4) | 21470032 04/23 | 28.75 | 4 | 3.92 | |
| pH (7) | 21380102 04/23 | 28.12 | 7 | 6.90 | |
| pH (10) | 20080056 04/23 | 28.01 | 10 | 9.88 | |
| ORP (mV) | 21140143 04/23 | 27.75 | 228 | 226.8 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.00 | +/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 0.98 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 9.72 | +/- 0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | | 4 | | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | | 7 | | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | | 10 | | +/- 0.1 SU | Yes | No | |

Calibration Report

Instrument Aqua TROLL 400
Serial Number 789301
Created 9/22/2022

Sensor

Sensor RDO
Serial Number 878603
Last Calibrated 9/22/2022

Calibration Details

Slope 1.032955
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.25 mg/L
Temperature 23.37 °C
Barometric Pressure 1,014.1 mbar

Sensor

Sensor Conductivity
Serial Number 789301
Last Calibrated 9/22/2022

Calibration Details

Cell Constant 0.997
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor

| | |
|-----------------|------------------|
| Sensor | Level |
| Serial Number | 787061 |
| Last Calibrated | Factory Defaults |

Sensor

| | |
|-----------------|-----------|
| Sensor | pH/ORP |
| Serial Number | 21177 |
| Last Calibrated | 9/22/2022 |

Calibration Details

| | |
|--------------------------|---|
| Total Calibration Points | 3 |
|--------------------------|---|

Calibration Point 1

| | |
|--------------|----------|
| pH of Buffer | 4.00 pH |
| pH mV | 96.7 mV |
| Temperature | 23.29 °C |

Calibration Point 2

| | |
|--------------|----------|
| pH of Buffer | 7.00 pH |
| pH mV | -77.4 mV |
| Temperature | 23.73 °C |

Calibration Point 3

| | |
|--------------|-----------|
| pH of Buffer | 10.00 pH |
| pH mV | -242.0 mV |
| Temperature | 23.97 °C |

Slope and Offset 1

| | |
|--------|--------------|
| Slope | -58.03 mV/pH |
| Offset | -77.4 mV |

Slope and Offset 2

Slope -54.88 mV/pH

Offset -77.4 mV

ORP

ORP Solution ORP Standard

Offset 82.2 mV

Temperature 24.02 °C

Calibration Report

Instrument Aqua TROLL 400

Serial Number 789301

Created 9/27/2022

Sensor

Sensor RDO

Serial Number 878603

Last Calibrated 9/27/2022

Calibration Details

Slope 1.051195

Offset 0.00 mg/L

Calibration point 100%

Concentration 7.31 mg/L

Temperature 29.25 °C

Barometric Pressure 1,017.3 mbar

Sensor

Sensor Conductivity

Serial Number 789301

Last Calibrated 9/27/2022

Calibration Details

Cell Constant 1.003

Reference Temperature 25.00 °C

TDS Conversion Factor (ppm) 0.65

Sensor

| | |
|-----------------|------------------|
| Sensor | Level |
| Serial Number | 787061 |
| Last Calibrated | Factory Defaults |

Sensor

| | |
|-----------------|-----------|
| Sensor | pH/ORP |
| Serial Number | 21177 |
| Last Calibrated | 9/27/2022 |

Calibration Details

| | |
|--------------------------|---|
| Total Calibration Points | 3 |
|--------------------------|---|

Calibration Point 1

| | |
|--------------|----------|
| pH of Buffer | 4.01 pH |
| pH mV | 103.5 mV |
| Temperature | 28.75 °C |

Calibration Point 2

| | |
|--------------|----------|
| pH of Buffer | 6.99 pH |
| pH mV | -73.5 mV |
| Temperature | 28.12 °C |

Calibration Point 3

| | |
|--------------|-----------|
| pH of Buffer | 9.95 pH |
| pH mV | -238.8 mV |
| Temperature | 28.01 °C |

Slope and Offset 1

| | |
|--------|--------------|
| Slope | -59.37 mV/pH |
| Offset | -74.1 mV |

Slope and Offset 2

Slope -55.84 mV/pH

Offset -74.0 mV

ORP

ORP Solution ORP Standard

Offset 83.3 mV

Temperature 27.85 °C

Location Properties

BG-2HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 08:23:41

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 5.014091 | 72.81639 | 108.3021 | 39265.38 | 27.74743 | 37307.61 | 24.03334 | 24.24994 | 25.4679 |
| ##### | 5.004027 | 72.67829 | 108.0958 | 39277.79 | 27.74947 | 37318.02 | 24.0408 | 24.25672 | 25.45977 |
| ##### | 4.993963 | 72.5402 | 107.8896 | 39290.2 | 27.75151 | 37328.44 | 24.04826 | 24.26349 | 25.45164 |
| ##### | 4.983899 | 72.40211 | 107.6833 | 39302.61 | 27.75355 | 37338.86 | 24.05572 | 24.27026 | 25.44352 |
| ##### | 4.90472 | 71.23643 | 105.9473 | 39251.78 | 27.80049 | 37258.84 | 23.99899 | 24.21824 | 25.47656 |
| ##### | 4.898294 | 71.14491 | 105.8108 | 39252.46 | 27.80318 | 37257.66 | 23.99818 | 24.21748 | 25.47612 |
| ##### | 4.891868 | 71.05339 | 105.6742 | 39253.14 | 27.80587 | 37256.49 | 23.99737 | 24.21672 | 25.47567 |
| ##### | 4.826149 | 70.15262 | 104.3303 | 39399.96 | 27.8216 | 37385.16 | 24.08949 | 24.30036 | 25.3808 |
| ##### | 4.821659 | 70.08964 | 104.2363 | 39405.75 | 27.82317 | 37389.61 | 24.09268 | 24.30324 | 25.37705 |
| ##### | 4.817169 | 70.02666 | 104.1424 | 39411.55 | 27.82474 | 37394.05 | 24.09586 | 24.30613 | 25.37331 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.014254 | -0.06555 | 0.485274 | 7.109405 | -84.5577 | 98.53972 | 1015.227 | 24.85838 | |
| 1.014259 | -0.06566 | 0.485037 | 7.109751 | -84.5776 | 98.54918 | 1015.228 | 24.85893 | |
| 1.014264 | -0.06576 | 0.484801 | 7.110098 | -84.5976 | 98.55864 | 1015.229 | 24.85949 | |
| 1.014269 | -0.06586 | 0.484565 | 7.110445 | -84.6176 | 98.5681 | 1015.229 | 24.86004 | |
| 1.014211 | -0.04556 | 0.53139 | 7.115657 | -84.9138 | 98.71684 | 1015.22 | 24.85103 | |
| 1.01421 | -0.04468 | 0.533422 | 7.115993 | -84.9329 | 98.72631 | 1015.22 | 24.85082 | |
| 1.014209 | -0.0438 | 0.535454 | 7.116328 | -84.9521 | 98.73577 | 1015.22 | 24.85061 | |
| 1.014273 | -0.04218 | 0.539194 | 7.120778 | -85.204 | 98.8911 | 1015.212 | 24.86723 | |
| 1.014274 | -0.04174 | 0.540192 | 7.121073 | -85.2207 | 98.90078 | 1015.211 | 24.86781 | |
| 1.014276 | -0.04131 | 0.541189 | 7.121368 | -85.2375 | 98.91045 | 1015.211 | 24.86839 | |

Location Properties

T1-4HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:48:23

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 2.693023 | 39.32501 | 58.26426 | 33870.71 | 29.57545 | 31148.6 | 19.69512 | 20.24659 | 29.52403 | |
| ##### 2.684791 | 39.13324 | 57.99527 | 33876.36 | 29.53508 | 31175.91 | 19.71401 | 20.26434 | 29.51911 | |
| ##### 2.683995 | 39.11782 | 57.97325 | 33876.45 | 29.53242 | 31177.44 | 19.71507 | 20.26534 | 29.51904 | |
| ##### 2.683199 | 39.10241 | 57.95123 | 33876.52 | 29.52977 | 31178.97 | 19.71612 | 20.26633 | 29.51897 | |
| ##### 2.682404 | 39.087 | 57.92921 | 33876.6 | 29.52711 | 31180.49 | 19.71718 | 20.26732 | 29.5189 | |
| ##### 2.678895 | 39.00798 | 57.82297 | 33848.95 | 29.40044 | 31224.6 | 19.74744 | 20.29599 | 29.54301 | |
| ##### 2.678572 | 39.00062 | 57.81285 | 33847.8 | 29.39386 | 31227.15 | 19.7492 | 20.29765 | 29.54402 | |
| ##### 2.67825 | 38.99325 | 57.80272 | 33846.64 | 29.38728 | 31229.69 | 19.75094 | 20.2993 | 29.54503 | |
| ##### 2.677927 | 38.98589 | 57.7926 | 33845.48 | 29.3807 | 31232.24 | 19.7527 | 20.30096 | 29.54604 | |
| ##### 2.676404 | 38.92418 | 57.70932 | 33849.53 | 29.30608 | 31277.12 | 19.78371 | 20.33013 | 29.54251 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010438 | -0.0642 | 0.488405 | 6.983061 | -77.9766 | 98.28383 | 1015.54 | 27.71949 | |
| 1.010465 | -0.06561 | 0.48514 | 6.980627 | -77.8203 | 98.42057 | 1015.514 | 27.73641 | |
| 1.010467 | -0.06587 | 0.484533 | 6.98048 | -77.811 | 98.42822 | 1015.513 | 27.73735 | |
| 1.010468 | -0.06614 | 0.483926 | 6.980332 | -77.8016 | 98.43587 | 1015.512 | 27.7383 | |
| 1.01047 | -0.0664 | 0.483319 | 6.980186 | -77.7923 | 98.44351 | 1015.511 | 27.73924 | |
| 1.010533 | -0.05497 | 0.509682 | 6.979393 | -77.7161 | 98.43099 | 1015.579 | 27.7651 | |
| 1.010536 | -0.05448 | 0.510826 | 6.979309 | -77.7096 | 98.43308 | 1015.582 | 27.76661 | |
| 1.01054 | -0.05398 | 0.511971 | 6.979226 | -77.7031 | 98.43517 | 1015.585 | 27.76812 | |
| 1.010543 | -0.05348 | 0.513116 | 6.979142 | -77.6966 | 98.43726 | 1015.587 | 27.76963 | |
| 1.01059 | -0.04571 | 0.531035 | 6.977899 | -77.6089 | 98.5463 | 1015.553 | 27.77782 | |

Location Properties

T1-4HTS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:43:21

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 4.314582 | 64.73016 | 95.49058 | 34643.53 | 31.26336 | 30941.97 | 19.55567 | 20.11228 | 28.86544 |
| ##### | 4.295183 | 64.43226 | 95.05349 | 34651.71 | 31.25443 | 30953.96 | 19.56402 | 20.12008 | 28.8586 |
| ##### | 4.275784 | 64.13437 | 94.61641 | 34659.89 | 31.24551 | 30965.96 | 19.57236 | 20.12787 | 28.85176 |
| ##### | 4.256385 | 63.83648 | 94.17932 | 34668.07 | 31.23659 | 30977.94 | 19.58071 | 20.13566 | 28.84493 |
| ##### | 4.135727 | 61.94986 | 91.41837 | 34687.49 | 31.15822 | 31036.92 | 19.62173 | 20.174 | 28.82886 |
| ##### | 4.122612 | 61.74699 | 91.12102 | 34691.63 | 31.15118 | 31044.34 | 19.62689 | 20.17882 | 28.8254 |
| ##### | 4.109498 | 61.54411 | 90.82366 | 34695.78 | 31.14414 | 31051.76 | 19.63205 | 20.18365 | 28.82194 |
| ##### | 4.096383 | 61.34123 | 90.52631 | 34699.93 | 31.1371 | 31059.18 | 19.63722 | 20.18847 | 28.81848 |
| ##### | 3.987827 | 59.69517 | 88.10354 | 34684.72 | 31.10195 | 31064.28 | 19.64071 | 20.19178 | 28.83114 |
| ##### | 3.979466 | 59.56707 | 87.91539 | 34684.94 | 31.09833 | 31066.39 | 19.64217 | 20.19315 | 28.83096 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2: | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|-------------|-----------|----------|-----------|-----------|--------|
| 1.009782 | -0.0632 | 0.490694 | 7.042068 | -81.7122 | 103.0825 | 1015.53 | 27.35 | |
| 1.009791 | -0.06399 | 0.48887 | 7.04138 | -81.6716 | 102.9969 | 1015.53 | 27.35 | |
| 1.0098 | -0.06479 | 0.487046 | 7.040691 | -81.6309 | 102.9113 | 1015.529 | 27.35 | |
| 1.009809 | -0.06558 | 0.485222 | 7.040003 | -81.5903 | 102.8257 | 1015.529 | 27.35 | |
| 1.009866 | -0.05112 | 0.518562 | 7.033668 | -81.235 | 102.5433 | 1015.538 | 27.37568 | |
| 1.009872 | -0.0508 | 0.519293 | 7.033112 | -81.203 | 102.4964 | 1015.539 | 27.3768 | |
| 1.009878 | -0.05049 | 0.520024 | 7.032557 | -81.171 | 102.4496 | 1015.539 | 27.37793 | |
| 1.009884 | -0.05017 | 0.520756 | 7.032001 | -81.139 | 102.4027 | 1015.539 | 27.37906 | |
| 1.009899 | -0.05922 | 0.499891 | 7.025525 | -80.7445 | 102.1199 | 1015.557 | 27.37042 | |
| 1.009901 | -0.0594 | 0.499459 | 7.025073 | -80.7177 | 102.0965 | 1015.558 | 27.37051 | |

Location Properties

T2-1HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 08:40:49

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.900459 | 69.17257 | 102.8454 | 31292.56 | 27.97304 | 29619.28 | 18.67311 | 19.25253 | 259.4892 | |
| ##### 4.836341 | 68.42775 | 101.7408 | 31819.7 | 27.95763 | 30121.28 | 18.98993 | 19.57883 | 111.9663 | |
| ##### 4.772222 | 67.68294 | 100.6362 | 32346.85 | 27.94221 | 30623.29 | 19.30676 | 19.90514 | 0 | |
| ##### 4.433913 | 62.8088 | 93.39102 | 32114.31 | 27.93159 | 30411.48 | 19.17395 | 19.76746 | 31.13877 | |
| ##### 4.406031 | 62.41453 | 92.80465 | 32113.36 | 27.92725 | 30412.96 | 19.17495 | 19.76842 | 31.13969 | |
| ##### 4.378148 | 62.02025 | 92.21828 | 32112.41 | 27.92292 | 30414.44 | 19.17595 | 19.76939 | 31.14061 | |
| ##### 4.350265 | 61.62598 | 91.6319 | 32111.46 | 27.91858 | 30415.92 | 19.17695 | 19.77035 | 31.14153 | |
| ##### 4.119516 | 58.31261 | 86.71425 | 32072.13 | 27.89817 | 30389.9 | 19.15875 | 19.75343 | 31.17972 | |
| ##### 4.102582 | 58.07053 | 86.35477 | 32070.44 | 27.89696 | 30388.96 | 19.1581 | 19.75282 | 31.18137 | |
| ##### 4.085647 | 57.82845 | 85.9953 | 32068.75 | 27.89574 | 30388.03 | 19.15744 | 19.75222 | 31.18301 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.01018 | -0.06797 | 0.479689 | 7.321848 | -96.4173 | 88.63152 | 1015.23 | 24.93974 | |
| 1.01042 | -0.06829 | 0.478969 | 7.320133 | -96.3206 | 88.70763 | 1015.227 | 24.93991 | |
| 1.010661 | -0.0686 | 0.47825 | 7.318417 | -96.2239 | 88.78374 | 1015.224 | 24.94007 | |
| 1.010566 | -0.05645 | 0.50627 | 7.299805 | -95.1822 | 89.43439 | 1015.24 | 24.94834 | |
| 1.010568 | -0.05607 | 0.507152 | 7.298538 | -95.1115 | 89.48073 | 1015.239 | 24.9487 | |
| 1.01057 | -0.05569 | 0.508034 | 7.297272 | -95.0409 | 89.52706 | 1015.238 | 24.94906 | |
| 1.010572 | -0.0553 | 0.508915 | 7.296005 | -94.9702 | 89.57339 | 1015.238 | 24.94943 | |
| 1.010564 | -0.05166 | 0.51732 | 7.279769 | -94.0616 | 90.11501 | 1015.256 | 24.94964 | |
| 1.010564 | -0.05128 | 0.518194 | 7.278687 | -94.0011 | 90.15174 | 1015.257 | 24.9498 | |
| 1.010564 | -0.0509 | 0.519068 | 7.277606 | -93.9406 | 90.18847 | 1015.258 | 24.94996 | |

Location Properties

T2-2HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 08:50:02

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 3.012727 | 43.02077 | 63.96915 | 34221.73 | 27.94018 | 32402.11 | 20.56301 | 21.06137 | 29.2212 |
| ##### | 2.999069 | 42.82737 | 63.6811 | 34221.6 | 27.94252 | 32400.62 | 20.56198 | 21.0604 | 29.22131 |
| ##### | 2.919243 | 41.69954 | 62.00449 | 34259.51 | 27.95571 | 32428.78 | 20.5818 | 21.0787 | 29.18898 |
| ##### | 2.91237 | 41.60225 | 61.85977 | 34261.31 | 27.95683 | 32429.82 | 20.58254 | 21.07938 | 29.18745 |
| ##### | 2.905498 | 41.50497 | 61.71504 | 34263.11 | 27.95796 | 32430.87 | 20.58328 | 21.08006 | 29.18591 |
| ##### | 2.898625 | 41.40769 | 61.57032 | 34264.91 | 27.95908 | 32431.91 | 20.58402 | 21.08074 | 29.18437 |
| ##### | 2.860163 | 40.87205 | 60.76889 | 34233.71 | 27.98176 | 32389.1 | 20.55418 | 21.05292 | 29.21097 |
| ##### | 2.856828 | 40.82527 | 60.69912 | 34233.04 | 27.98304 | 32387.71 | 20.55322 | 21.05201 | 29.21155 |
| ##### | 2.853494 | 40.7785 | 60.62936 | 34232.36 | 27.98431 | 32386.32 | 20.55225 | 21.05111 | 29.21213 |
| ##### | 2.827883 | 40.41917 | 60.0948 | 34233.53 | 28.0038 | 32376.03 | 20.54516 | 21.04442 | 29.21113 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.0116 | 0.003829 | 0.645314 | 6.997625 | -78.3821 | 98.29912 | 1015.302 | 25.22917 | |
| 1.011599 | 0.004933 | 0.647861 | 6.997409 | -78.3705 | 98.26865 | 1015.3 | 25.22956 | |
| 1.011609 | -0.01725 | 0.596696 | 6.995605 | -78.2761 | 97.91496 | 1015.334 | 25.23811 | |
| 1.011609 | -0.01787 | 0.59526 | 6.995462 | -78.2685 | 97.89046 | 1015.335 | 25.23865 | |
| 1.01161 | -0.01849 | 0.593825 | 6.995318 | -78.261 | 97.86597 | 1015.337 | 25.23919 | |
| 1.01161 | -0.01912 | 0.592389 | 6.995175 | -78.2534 | 97.84148 | 1015.338 | 25.23972 | |
| 1.011581 | -0.04671 | 0.52874 | 6.994184 | -78.1998 | 97.62658 | 1015.321 | 25.24829 | |
| 1.011579 | -0.04832 | 0.525022 | 6.994105 | -78.1955 | 97.61022 | 1015.321 | 25.24883 | |
| 1.011578 | -0.04993 | 0.521304 | 6.994025 | -78.1913 | 97.59386 | 1015.321 | 25.24937 | |
| 1.011567 | -0.04313 | 0.536993 | 6.992393 | -78.1089 | 97.40322 | 1015.346 | 25.25808 | |

Location Properties

T2-2HTS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 08:44:43

Time Offset = -04:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 5.508553 | 76.68767 | 114.2351 | 30864.25 | 27.06708 | 29691.96 | 18.71931 | 19.29977 | 173.9073 | |
| ##### 5.447143 | 76.0002 | 113.2099 | 31357.88 | 27.06938 | 30165.58 | 19.01789 | 19.60763 | 88.584 | |
| ##### 5.385733 | 75.31272 | 112.1847 | 31851.51 | 27.07168 | 30639.2 | 19.31646 | 19.91548 | 3.26066 | |
| ##### 4.862586 | 67.99625 | 101.2801 | 31758.69 | 27.14048 | 30511.31 | 19.23821 | 19.83236 | 31.4875 | |
| ##### 4.8187 | 67.38669 | 100.3712 | 31757.75 | 27.14507 | 30507.83 | 19.23582 | 19.83009 | 31.48841 | |
| ##### 4.774814 | 66.77713 | 99.46233 | 31756.81 | 27.14965 | 30504.35 | 19.23343 | 19.82783 | 31.48932 | |
| ##### 4.730927 | 66.16757 | 98.55348 | 31755.87 | 27.15423 | 30500.87 | 19.23104 | 19.82557 | 31.49023 | |
| ##### 4.450835 | 62.2241 | 92.68134 | 31658.2 | 27.15213 | 30408.25 | 19.16671 | 19.76537 | 31.58743 | |
| ##### 4.427866 | 61.90288 | 92.2028 | 31655.34 | 27.15342 | 30404.79 | 19.16431 | 19.76311 | 31.59028 | |
| ##### 4.404898 | 61.58166 | 91.72427 | 31652.49 | 27.15471 | 30401.32 | 19.16191 | 19.76086 | 31.59312 | |
| ##### 4.204552 | 58.7884 | 87.56178 | 31685.54 | 27.15393 | 30433.5 | 19.18425 | 19.78178 | 31.56015 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.010488 | -0.02696 | 0.574298 | 7.072785 | -82.3326 | 96.42971 | 1015.251 | 25.10876 | |
| 1.010711 | -0.02741 | 0.573252 | 7.074155 | -82.4094 | 96.27917 | 1015.25 | 25.10915 | |
| 1.010933 | -0.02787 | 0.572205 | 7.075525 | -82.4862 | 96.12862 | 1015.249 | 25.10953 | |
| 1.010854 | -0.04362 | 0.53587 | 7.068301 | -82.0947 | 96.65881 | 1015.267 | 25.11824 | |
| 1.010851 | -0.04444 | 0.533975 | 7.067847 | -82.0701 | 96.69486 | 1015.268 | 25.1188 | |
| 1.010848 | -0.04526 | 0.532081 | 7.067393 | -82.0455 | 96.73091 | 1015.268 | 25.11935 | |
| 1.010845 | -0.04608 | 0.530187 | 7.066939 | -82.0209 | 96.76696 | 1015.269 | 25.1199 | |
| 1.010797 | -0.01373 | 0.604818 | 7.061886 | -81.7401 | 97.04993 | 1015.278 | 25.11971 | |
| 1.010795 | -0.01264 | 0.607315 | 7.061533 | -81.7207 | 97.07174 | 1015.278 | 25.11988 | |
| 1.010793 | -0.01156 | 0.609813 | 7.06118 | -81.7013 | 97.09354 | 1015.279 | 25.12005 | |
| 1.01081 | -0.02043 | 0.58936 | 7.056637 | -81.4489 | 97.35205 | 1015.254 | 25.12 | |

Location Properties

T2-3HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:04:52

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 3.285815 | 47.48842 | 70.50017 | 34473.85 | 28.68416 | 32207.49 | 20.43122 | 20.93487 | 29.0075 |
| ##### | 3.170094 | 45.77102 | 67.95893 | 34468.59 | 28.64172 | 32226.99 | 20.44464 | 20.94754 | 29.01192 |
| ##### | 3.16004 | 45.62458 | 67.74175 | 34468.24 | 28.6406 | 32227.3 | 20.44485 | 20.94775 | 29.01221 |
| ##### | 3.149985 | 45.47815 | 67.52457 | 34467.89 | 28.63948 | 32227.62 | 20.44506 | 20.94795 | 29.01251 |
| ##### | 3.055733 | 44.14649 | 65.54097 | 34507.93 | 28.67425 | 32245.04 | 20.45746 | 20.95927 | 28.97885 |
| ##### | 3.049137 | 44.05167 | 65.40005 | 34509.58 | 28.67497 | 32246.16 | 20.45825 | 20.96 | 28.97746 |
| ##### | 3.042541 | 43.95684 | 65.25914 | 34511.23 | 28.6757 | 32247.28 | 20.45905 | 20.96073 | 28.97608 |
| ##### | 3.035945 | 43.86201 | 65.11823 | 34512.88 | 28.67642 | 32248.41 | 20.45984 | 20.96146 | 28.97469 |
| ##### | 2.970995 | 42.86889 | 63.65714 | 34528.61 | 28.59799 | 32308.35 | 20.50139 | 21.00043 | 28.96149 |
| ##### | 2.966202 | 42.79769 | 63.55192 | 34530.04 | 28.59505 | 32311.38 | 20.5035 | 21.00239 | 28.96029 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.01127 | -0.042 | 0.539593 | 6.976623 | -77.4068 | 97.56483 | 1015.469 | 25.65012 | |
| 1.011293 | -0.03705 | 0.551014 | 6.975573 | -77.3408 | 97.20199 | 1015.442 | 25.64978 | |
| 1.011294 | -0.03645 | 0.552412 | 6.975506 | -77.3369 | 97.17865 | 1015.442 | 25.64995 | |
| 1.011294 | -0.03584 | 0.553811 | 6.97544 | -77.333 | 97.15532 | 1015.441 | 25.65011 | |
| 1.011292 | -0.05268 | 0.514965 | 6.974943 | -77.2853 | 96.73559 | 1015.424 | 25.67536 | |
| 1.011293 | -0.05332 | 0.513498 | 6.9749 | -77.2819 | 96.70995 | 1015.422 | 25.67647 | |
| 1.011293 | -0.05395 | 0.512031 | 6.974857 | -77.2786 | 96.68431 | 1015.421 | 25.67758 | |
| 1.011294 | -0.05459 | 0.510565 | 6.974815 | -77.2752 | 96.65868 | 1015.42 | 25.67868 | |
| 1.011349 | -0.00729 | 0.619658 | 6.974354 | -77.2462 | 96.29179 | 1015.42 | 25.67035 | |
| 1.011352 | -0.00545 | 0.623903 | 6.974323 | -77.2439 | 96.26727 | 1015.42 | 25.67043 | |

Location Properties

T2-3HTS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:00:02

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.412595 | 63.59805 | 94.35188 | 32535.48 | 29.00182 | 30225.22 | 19.04994 | 19.6464 | 30.73567 | |
| ##### 4.390782 | 63.28325 | 93.8848 | 32535.63 | 29.00124 | 30225.67 | 19.05025 | 19.64669 | 30.73553 | |
| ##### 4.252374 | 61.18729 | 90.79353 | 32512.03 | 28.95251 | 30229.89 | 19.05296 | 19.64943 | 30.75785 | |
| ##### 4.23736 | 60.96613 | 90.46623 | 32511.01 | 28.95006 | 30230.26 | 19.05321 | 19.64967 | 30.75881 | |
| ##### 4.222347 | 60.74496 | 90.13893 | 32510 | 28.94761 | 30230.63 | 19.05346 | 19.64991 | 30.75977 | |
| ##### 4.207334 | 60.5238 | 89.81164 | 32508.98 | 28.94516 | 30231 | 19.05371 | 19.65015 | 30.76073 | |
| ##### 4.091939 | 58.8555 | 87.34419 | 32584.54 | 28.8536 | 30350.64 | 19.13643 | 19.72792 | 30.68942 | |
| ##### 4.08256 | 58.71802 | 87.14094 | 32587.44 | 28.8485 | 30356.09 | 19.1402 | 19.73146 | 30.68668 | |
| ##### 4.07318 | 58.58054 | 86.93768 | 32590.35 | 28.8434 | 30361.54 | 19.14396 | 19.735 | 30.68394 | |
| ##### 3.998353 | 57.47873 | 85.30595 | 32547.54 | 28.82201 | 30333.21 | 19.12417 | 19.71659 | 30.7243 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.01014 | -0.05032 | 0.520418 | 7.044108 | -81.2345 | 98.41113 | 1015.478 | | 25.5 |
| 1.01014 | -0.05127 | 0.518226 | 7.043558 | -81.2029 | 98.28 | 1015.477 | | 25.5 |
| 1.010158 | -0.02977 | 0.567809 | 7.038706 | -80.9195 | 97.82686 | 1015.437 | | 25.5 |
| 1.010159 | -0.02917 | 0.569195 | 7.038266 | -80.894 | 97.75388 | 1015.434 | | 25.5 |
| 1.01016 | -0.02857 | 0.570581 | 7.037825 | -80.8684 | 97.68091 | 1015.432 | | 25.5 |
| 1.010161 | -0.02797 | 0.571967 | 7.037385 | -80.8429 | 97.60793 | 1015.429 | | 25.5 |
| 1.010251 | -0.0435 | 0.536148 | 7.031732 | -80.5115 | 97.22689 | 1015.439 | 25.50894 | |
| 1.010255 | -0.04382 | 0.535402 | 7.031346 | -80.4889 | 97.19207 | 1015.439 | 25.50934 | |
| 1.01026 | -0.04414 | 0.534656 | 7.03096 | -80.4663 | 97.15725 | 1015.439 | 25.50974 | |
| 1.010252 | -0.03435 | 0.557261 | 7.026601 | -80.2053 | 96.91045 | 1015.431 | 25.50967 | |

Location Properties

T2-4HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:35:12

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 3.566074 | 53.00209 | 78.27784 | 33927.38 | 30.85939 | 30512.58 | 19.25565 | 19.83318 | 29.47476 |
| ##### | 3.540075 | 52.60994 | 77.69991 | 33922.43 | 30.85802 | 30508.85 | 19.25305 | 19.83075 | 29.47905 |
| ##### | 3.514076 | 52.21778 | 77.12196 | 33917.48 | 30.85665 | 30505.12 | 19.25045 | 19.82833 | 29.48333 |
| ##### | 3.271048 | 48.53195 | 71.70128 | 33948.27 | 30.65492 | 30639.06 | 19.34326 | 19.91539 | 29.45659 |
| ##### | 3.253169 | 48.26051 | 71.30191 | 33947.89 | 30.64503 | 30643.92 | 19.34663 | 19.91855 | 29.45692 |
| ##### | 3.235291 | 47.98906 | 70.90255 | 33947.5 | 30.63514 | 30648.79 | 19.34999 | 19.92171 | 29.45725 |
| ##### | 3.217412 | 47.71761 | 70.50319 | 33947.12 | 30.62525 | 30653.65 | 19.35336 | 19.92487 | 29.45758 |
| ##### | 3.073987 | 45.48132 | 67.22648 | 33856.25 | 30.47902 | 30648.89 | 19.34967 | 19.92178 | 29.53668 |
| ##### | 3.06276 | 45.3084 | 66.97269 | 33852.81 | 30.46875 | 30651.21 | 19.35126 | 19.92328 | 29.53967 |
| ##### | 3.051533 | 45.13548 | 66.71889 | 33849.38 | 30.45848 | 30653.53 | 19.35285 | 19.92479 | 29.54266 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.009693 | -0.03376 | 0.558621 | 7.026767 | -80.7537 | 96.75356 | 1015.398 | 26.98973 | |
| 1.009691 | -0.03383 | 0.558442 | 7.026269 | -80.7246 | 96.76664 | 1015.399 | 26.98989 | |
| 1.00969 | -0.03391 | 0.558263 | 7.025771 | -80.6955 | 96.77972 | 1015.4 | 26.99005 | |
| 1.009825 | -0.07292 | 0.468281 | 7.02204 | -80.4141 | 96.892 | 1015.4 | 27.00705 | |
| 1.009831 | -0.07477 | 0.464019 | 7.021717 | -80.3923 | 96.9009 | 1015.4 | 27.00781 | |
| 1.009837 | -0.07662 | 0.459758 | 7.021394 | -80.3705 | 96.9098 | 1015.4 | 27.00858 | |
| 1.009843 | -0.07846 | 0.455496 | 7.02107 | -80.3487 | 96.9187 | 1015.4 | 27.00935 | |
| 1.009888 | -0.06308 | 0.490981 | 7.015386 | -80.0242 | 97.08659 | 1015.443 | 27.01796 | |
| 1.009892 | -0.06316 | 0.490792 | 7.01506 | -80.0042 | 97.09622 | 1015.444 | 27.01867 | |
| 1.009897 | -0.06324 | 0.490603 | 7.014734 | -79.9843 | 97.10585 | 1015.446 | 27.01937 | |

Location Properties

T2-4HTS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:29:10

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.934051 | 73.64016 | 108.647 | 33546.2 | 31.4095 | 29898.86 | 18.87367 | 19.43426 | 18.02945 | |
| ##### 4.497957 | 67.12674 | 99.03609 | 33572.74 | 31.19705 | 30035.53 | 18.96909 | 19.52309 | 75.96484 | |
| ##### 4.452531 | 66.57166 | 98.22506 | 34126.19 | 31.16934 | 30533.96 | 19.28518 | 19.84707 | 43.67699 | |
| ##### 4.407105 | 66.01659 | 97.41404 | 34679.65 | 31.14163 | 31032.39 | 19.60127 | 20.17105 | 11.38913 | |
| ##### 4.19916 | 62.81457 | 92.6935 | 34427.57 | 31.11231 | 30828.54 | 19.47629 | 20.03855 | 29.0465 | |
| ##### 4.180788 | 62.53924 | 92.28767 | 34430.19 | 31.10652 | 30833.92 | 19.48002 | 20.04205 | 29.04429 | |
| ##### 4.162416 | 62.26391 | 91.88184 | 34432.81 | 31.10073 | 30839.29 | 19.48376 | 20.04554 | 29.04208 | |
| ##### 4.144044 | 61.98858 | 91.47601 | 34435.43 | 31.09495 | 30844.67 | 19.4875 | 20.04904 | 29.03987 | |
| ##### 4.017867 | 60.01647 | 88.58674 | 34430.02 | 31.05656 | 30860.12 | 19.4982 | 20.05908 | 29.04442 | |
| ##### 4.007831 | 59.86214 | 88.36011 | 34430.72 | 31.05396 | 30862.12 | 19.49958 | 20.06038 | 29.04383 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.009227 | -0.05403 | 0.511848 | 7.065283 | -83.0111 | 93.05272 | 1015.411 | 26.53946 | |
| 1.009369 | -0.06644 | 0.483217 | 7.054486 | -82.4006 | 93.17705 | 1015.428 | 26.5486 | |
| 1.009612 | -0.06684 | 0.482316 | 7.053938 | -82.3682 | 93.17551 | 1015.428 | 26.54915 | |
| 1.009856 | -0.06723 | 0.481414 | 7.05339 | -82.3358 | 93.17397 | 1015.429 | 26.54971 | |
| 1.009773 | -0.0374 | 0.550224 | 7.046587 | -81.9428 | 93.15982 | 1015.42 | 26.55811 | |
| 1.009778 | -0.03633 | 0.552679 | 7.046125 | -81.9161 | 93.15834 | 1015.42 | 26.55865 | |
| 1.009782 | -0.03527 | 0.555134 | 7.045663 | -81.8894 | 93.15686 | 1015.42 | 26.55919 | |
| 1.009787 | -0.0342 | 0.557588 | 7.045201 | -81.8627 | 93.15538 | 1015.42 | 26.55973 | |
| 1.009808 | -0.04014 | 0.54389 | 7.039466 | -81.5274 | 93.19537 | 1015.42 | 26.56836 | |
| 1.00981 | -0.03987 | 0.544513 | 7.039077 | -81.5047 | 93.19688 | 1015.42 | 26.56891 | |

Location Properties

T3-4HT

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:21:31

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 3.916856 | 56.66277 | 84.11301 | 34661.96 | 28.72659 | 32358.73 | 20.53741 | 21.03318 | 28.84991 |
| ##### | 3.587476 | 51.937 | 77.09052 | 34727.77 | 28.76423 | 32398.41 | 20.56546 | 21.05897 | 28.79543 |
| ##### | 3.561177 | 51.55923 | 76.5294 | 34732.5 | 28.76698 | 32401.24 | 20.56745 | 21.06081 | 28.7915 |
| ##### | 3.534877 | 51.18145 | 75.96827 | 34737.23 | 28.76973 | 32404.07 | 20.56945 | 21.06264 | 28.78757 |
| ##### | 3.290868 | 47.6381 | 70.71069 | 34767.13 | 28.75882 | 32438.27 | 20.59336 | 21.08488 | 28.76282 |
| ##### | 3.273259 | 47.38347 | 70.33271 | 34769.85 | 28.75898 | 32440.72 | 20.59509 | 21.08647 | 28.76056 |
| ##### | 3.25565 | 47.12885 | 69.95473 | 34772.57 | 28.75914 | 32443.17 | 20.59681 | 21.08806 | 28.7583 |
| ##### | 3.238041 | 46.87423 | 69.57674 | 34775.3 | 28.75929 | 32445.63 | 20.59853 | 21.08966 | 28.75604 |
| ##### | 3.071109 | 44.43905 | 65.96519 | 34705.65 | 28.73479 | 32394.78 | 20.56274 | 21.0566 | 28.81377 |
| ##### | 3.058714 | 44.25856 | 65.69746 | 34703.09 | 28.73348 | 32393.15 | 20.56159 | 21.05555 | 28.81589 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.011336 | -0.03264 | 0.56119 | 6.990026 | -78.1703 | 91.05012 | 1015.428 | 26.29994 | |
| 1.011345 | -0.05364 | 0.512746 | 6.987873 | -78.0467 | 91.10892 | 1015.419 | 26.29951 | |
| 1.011345 | -0.0543 | 0.511227 | 6.987716 | -78.0383 | 91.11407 | 1015.42 | 26.29985 | |
| 1.011346 | -0.05496 | 0.509709 | 6.98756 | -78.0298 | 91.11924 | 1015.421 | 26.30019 | |
| 1.011367 | -0.05609 | 0.50711 | 6.9862 | -77.9505 | 91.2355 | 1015.395 | 26.3085 | |
| 1.011368 | -0.05648 | 0.506197 | 6.986096 | -77.9446 | 91.24206 | 1015.393 | 26.30889 | |
| 1.01137 | -0.05688 | 0.505284 | 6.985993 | -77.9386 | 91.24861 | 1015.392 | 26.30929 | |
| 1.011371 | -0.05727 | 0.504371 | 6.98589 | -77.9326 | 91.25517 | 1015.391 | 26.30968 | |
| 1.011352 | -0.07681 | 0.45931 | 6.983835 | -77.815 | 91.33852 | 1015.408 | 26.30972 | |
| 1.011351 | -0.07771 | 0.457233 | 6.983715 | -77.8081 | 91.34457 | 1015.408 | 26.30988 | |

Location Properties

T3-4HTS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 09:17:29

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.808892 | 69.86639 | 103.4081 | 30830.69 | 29.95408 | 28169.79 | 17.64163 | 18.31037 | 58075.4 | |
| ##### 4.763237 | 69.31746 | 102.6042 | 31344.78 | 29.92724 | 28640.68 | 17.93657 | 18.61644 | 0 | |
| ##### 4.482571 | 65.01876 | 96.26661 | 31040.5 | 29.86633 | 28400.77 | 17.79027 | 18.4605 | 32.21598 | |
| ##### 4.460733 | 64.69306 | 95.78639 | 31041.46 | 29.86135 | 28404.11 | 17.79256 | 18.46267 | 32.21498 | |
| ##### 4.438894 | 64.36736 | 95.30618 | 31042.41 | 29.85637 | 28407.45 | 17.79485 | 18.46484 | 32.21399 | |
| ##### 4.417056 | 64.04166 | 94.82597 | 31043.37 | 29.85139 | 28410.79 | 17.79714 | 18.46701 | 32.213 | |
| ##### 4.220464 | 61.16689 | 90.58678 | 31145.21 | 29.71641 | 28571.47 | 17.90759 | 18.57146 | 32.10773 | |
| ##### 4.206041 | 60.95387 | 90.27275 | 31150.41 | 29.70885 | 28580 | 17.91345 | 18.577 | 32.10234 | |
| ##### 4.191618 | 60.74086 | 89.95872 | 31155.62 | 29.7013 | 28588.53 | 17.91932 | 18.58254 | 32.09696 | |
| ##### 4.060499 | 58.77847 | 87.05927 | 31023.06 | 29.65743 | 28488.79 | 17.85039 | 18.51771 | 32.23417 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.008788 | -0.07745 | 0.457822 | 7.132617 | -86.4399 | 81.65682 | 1015.455 | 26.0481 | |
| 1.009016 | -0.07841 | 0.45562 | 7.131444 | -86.3668 | 81.74549 | 1015.456 | 26.049 | |
| 1.008927 | -0.10867 | 0.385808 | 7.118281 | -85.6122 | 82.66949 | 1015.398 | 26.04077 | |
| 1.00893 | -0.11025 | 0.382168 | 7.117382 | -85.5604 | 82.7325 | 1015.397 | 26.04071 | |
| 1.008934 | -0.11183 | 0.378527 | 7.116481 | -85.5087 | 82.7955 | 1015.395 | 26.04065 | |
| 1.008937 | -0.11341 | 0.374887 | 7.115581 | -85.4569 | 82.85851 | 1015.393 | 26.04059 | |
| 1.009062 | -0.07085 | 0.473063 | 7.104186 | -84.7905 | 83.66853 | 1015.444 | 26.04906 | |
| 1.009069 | -0.06946 | 0.476258 | 7.10342 | -84.7459 | 83.7229 | 1015.446 | 26.0493 | |
| 1.009076 | -0.06808 | 0.479452 | 7.102653 | -84.7013 | 83.77726 | 1015.447 | 26.04955 | |
| 1.009039 | -0.00914 | 0.615395 | 7.092171 | -84.0974 | 84.47182 | 1015.422 | 26.05812 | |

Location Properties

T4-1HB

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 07:19:42

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 2.089197 | 29.34175 | 43.75791 | 35773.65 | 26.37704 | 34856.87 | 22.27725 | 22.65697 | 27.95355 | |
| ##### 2.088014 | 29.32574 | 43.73396 | 35775.51 | 26.37887 | 34857.49 | 22.27771 | 22.65737 | 27.95209 | |
| ##### 2.086831 | 29.30974 | 43.71001 | 35777.37 | 26.3807 | 34858.11 | 22.27817 | 22.65777 | 27.95064 | |
| ##### 2.085647 | 29.29373 | 43.68606 | 35779.23 | 26.38254 | 34858.73 | 22.27863 | 22.65818 | 27.94918 | |
| ##### 2.07195 | 29.11407 | 43.41478 | 35746.65 | 26.38812 | 34823.38 | 22.2537 | 22.63519 | 27.97465 | |
| ##### 2.070975 | 29.10114 | 43.39534 | 35746.17 | 26.38858 | 34822.61 | 22.25316 | 22.6347 | 27.97503 | |
| ##### 2.07 | 29.08821 | 43.37589 | 35745.68 | 26.38903 | 34821.84 | 22.25262 | 22.6342 | 27.97541 | |
| ##### 2.062259 | 28.97512 | 43.20785 | 35722.34 | 26.41648 | 34781.35 | 22.22429 | 22.60788 | 27.99369 | |
| ##### 2.061634 | 28.96639 | 43.1948 | 35720.62 | 26.41788 | 34778.77 | 22.22248 | 22.6062 | 27.99504 | |
| ##### 2.06101 | 28.95766 | 43.18174 | 35718.89 | 26.41927 | 34776.18 | 22.22067 | 22.60452 | 27.99639 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013357 | -0.03755 | 0.549857 | 6.847608 | -69.6674 | 168.8192 | 1014.888 | 24.18964 | |
| 1.013357 | -0.03723 | 0.550607 | 6.847646 | -69.6698 | 168.7534 | 1014.889 | 24.1898 | |
| 1.013357 | -0.0369 | 0.551356 | 6.847684 | -69.6722 | 168.6876 | 1014.889 | 24.18997 | |
| 1.013356 | -0.03658 | 0.552106 | 6.847723 | -69.6746 | 168.6217 | 1014.889 | 24.19013 | |
| 1.013336 | -0.04302 | 0.53726 | 6.848094 | -69.7013 | 167.5739 | 1014.881 | 24.19878 | |
| 1.013335 | -0.04342 | 0.536335 | 6.848121 | -69.7031 | 167.5062 | 1014.88 | 24.19918 | |
| 1.013335 | -0.04382 | 0.535409 | 6.848147 | -69.7049 | 167.4386 | 1014.88 | 24.19958 | |
| 1.013306 | -0.05392 | 0.512097 | 6.848313 | -69.7215 | 166.4119 | 1014.897 | 24.19966 | |
| 1.013304 | -0.0545 | 0.510759 | 6.848328 | -69.7228 | 166.3442 | 1014.898 | 24.19984 | |
| 1.013302 | -0.05508 | 0.509422 | 6.848343 | -69.7241 | 166.2764 | 1014.898 | 24.20001 | |

Location Properties

T4-1HS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 07:11:53

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 3.839882 | 52.51189 | 78.56156 | 35172.04 | 24.7371 | 35349.53 | 22.60477 | 22.97719 | 28.43168 |
| ##### | 3.651535 | 50.02979 | 74.83358 | 35162.99 | 24.77763 | 35312.98 | 22.57951 | 22.95344 | 28.43899 |
| ##### | 3.639232 | 49.86621 | 74.58807 | 35162.13 | 24.78024 | 35310.34 | 22.57768 | 22.95172 | 28.43969 |
| ##### | 3.62693 | 49.70264 | 74.34255 | 35161.26 | 24.78284 | 35307.71 | 22.57586 | 22.95001 | 28.4404 |
| ##### | 3.614628 | 49.53906 | 74.09704 | 35160.39 | 24.78545 | 35305.07 | 22.57403 | 22.94829 | 28.4411 |
| ##### | 3.448074 | 47.27383 | 70.70314 | 35159.88 | 24.90154 | 35226.15 | 22.5199 | 22.897 | 28.44151 |
| ##### | 3.436866 | 47.12294 | 70.47689 | 35159.66 | 24.90751 | 35221.9 | 22.51698 | 22.89423 | 28.44168 |
| ##### | 3.425658 | 46.97205 | 70.25063 | 35159.45 | 24.91349 | 35217.65 | 22.51406 | 22.89147 | 28.44185 |
| ##### | 3.282603 | 45.02955 | 67.34003 | 35124.23 | 24.95294 | 35155.85 | 22.47093 | 22.8513 | 28.47038 |
| ##### | 3.273011 | 44.89928 | 67.14484 | 35122.66 | 24.95688 | 35151.62 | 22.46799 | 22.84855 | 28.47165 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.014081 | -0.03335 | 0.559567 | 6.550745 | -52.9466 | 236.2366 | 1014.821 | 23.79983 | |
| 1.014051 | 0.006366 | 0.651167 | 6.562526 | -53.6087 | 235.8851 | 1014.846 | 23.81703 | |
| 1.014049 | 0.008144 | 0.655268 | 6.563324 | -53.6534 | 235.8659 | 1014.847 | 23.81795 | |
| 1.014047 | 0.009922 | 0.659369 | 6.564123 | -53.6981 | 235.8466 | 1014.848 | 23.81888 | |
| 1.014045 | 0.0117 | 0.66347 | 6.564921 | -53.7428 | 235.8274 | 1014.849 | 23.81981 | |
| 1.013971 | -0.06519 | 0.486103 | 6.576167 | -54.3769 | 235.3833 | 1014.84 | 23.8284 | |
| 1.013967 | -0.06783 | 0.480027 | 6.576904 | -54.4184 | 235.3569 | 1014.84 | 23.82911 | |
| 1.013963 | -0.07046 | 0.473952 | 6.577642 | -54.4599 | 235.3305 | 1014.84 | 23.82983 | |
| 1.013919 | -0.04407 | 0.534836 | 6.588412 | -55.064 | 234.8214 | 1014.832 | 23.83816 | |
| 1.013916 | -0.04431 | 0.534266 | 6.589108 | -55.1032 | 234.7904 | 1014.831 | 23.8387 | |

Location Properties

T4-2HB

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 07:35:12

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 2.800129 | 39.3196 | 58.65243 | 36072.71 | 26.28287 | 35209.97 | 22.526 | 22.88648 | 27.72179 |
| ##### | 2.796416 | 39.26853 | 58.57608 | 36074.96 | 26.28363 | 35211.67 | 22.52721 | 22.88758 | 27.72005 |
| ##### | 2.758945 | 38.76724 | 57.82095 | 35998.07 | 26.35734 | 35088.43 | 22.44081 | 22.80748 | 27.77928 |
| ##### | 2.756189 | 38.72985 | 57.76482 | 35995.09 | 26.3607 | 35083.31 | 22.43723 | 22.80416 | 27.78158 |
| ##### | 2.753433 | 38.69247 | 57.7087 | 35992.11 | 26.36406 | 35078.2 | 22.43365 | 22.80083 | 27.78387 |
| ##### | 2.73164 | 38.42372 | 57.30053 | 36064.73 | 26.40931 | 35119.4 | 22.4633 | 22.82761 | 27.72794 |
| ##### | 2.7299 | 38.40148 | 57.26688 | 36066.65 | 26.41278 | 35118.99 | 22.46305 | 22.82735 | 27.72646 |
| ##### | 2.72816 | 38.37924 | 57.23323 | 36068.57 | 26.41626 | 35118.59 | 22.4628 | 22.82708 | 27.72498 |
| ##### | 2.72642 | 38.35699 | 57.19958 | 36070.49 | 26.41973 | 35118.18 | 22.46255 | 22.82682 | 27.7235 |
| ##### | 2.705786 | 38.10182 | 56.81262 | 36072.2 | 26.45221 | 35098.66 | 22.44909 | 22.81413 | 27.72218 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013571 | -0.04738 | 0.527195 | 6.98973 | -77.5117 | 122.5925 | 1014.95 | 24.34933 | |
| 1.013572 | -0.04602 | 0.530334 | 6.989488 | -77.4985 | 122.5686 | 1014.95 | 24.34971 | |
| 1.013485 | -0.05571 | 0.507981 | 6.985679 | -77.3166 | 122.1102 | 1014.959 | 24.34096 | |
| 1.013482 | -0.05537 | 0.508763 | 6.985433 | -77.3043 | 122.0818 | 1014.959 | 24.34072 | |
| 1.013478 | -0.05503 | 0.509546 | 6.985188 | -77.2921 | 122.0534 | 1014.959 | 24.34049 | |
| 1.013487 | -0.05262 | 0.515115 | 6.981571 | -77.1008 | 121.6334 | 1014.925 | 24.34033 | |
| 1.013485 | -0.05268 | 0.514968 | 6.981331 | -77.0885 | 121.6053 | 1014.924 | 24.34016 | |
| 1.013484 | -0.05274 | 0.514821 | 6.981091 | -77.0761 | 121.5771 | 1014.922 | 24.33999 | |
| 1.013483 | -0.05281 | 0.514675 | 6.98085 | -77.0638 | 121.549 | 1014.921 | 24.33982 | |
| 1.013463 | -0.03371 | 0.558721 | 6.978326 | -76.9301 | 121.0506 | 1014.929 | 24.35725 | |

Location Properties

T4-2HS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 07:29:05

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 3.930597 | 55.24804 | 82.39688 | 35944.31 | 26.39475 | 35011.61 | 22.38687 | 22.75755 | 27.82084 | |
| ##### 3.92227 | 55.13254 | 82.22449 | 35946.92 | 26.39639 | 35013.08 | 22.38793 | 22.7585 | 27.81881 | |
| ##### 3.913942 | 55.01704 | 82.05209 | 35949.53 | 26.39804 | 35014.55 | 22.38899 | 22.75946 | 27.81679 | |
| ##### 3.785498 | 53.22001 | 79.36685 | 35909.61 | 26.4168 | 34963.46 | 22.35306 | 22.72625 | 27.84771 | |
| ##### 3.777282 | 53.10551 | 79.19585 | 35909.25 | 26.41805 | 34962.31 | 22.35226 | 22.7255 | 27.84798 | |
| ##### 3.769067 | 52.99102 | 79.02484 | 35908.9 | 26.41929 | 34961.16 | 22.35146 | 22.72475 | 27.84825 | |
| ##### 3.656755 | 51.41552 | 76.67497 | 35865.5 | 26.43855 | 34906.4 | 22.31294 | 22.68916 | 27.88197 | |
| ##### 3.649235 | 51.31009 | 76.51762 | 35862.68 | 26.43978 | 34902.86 | 22.31045 | 22.68686 | 27.88415 | |
| ##### 3.641714 | 51.20466 | 76.36028 | 35859.86 | 26.44101 | 34899.31 | 22.30795 | 22.68455 | 27.88634 | |
| ##### 3.634193 | 51.09923 | 76.20293 | 35857.04 | 26.44225 | 34895.77 | 22.30546 | 22.68225 | 27.88853 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013434 | 0.022071 | 0.687392 | 6.960722 | -75.938 | 144.6682 | 1014.974 | 24.28872 | |
| 1.013434 | 0.022775 | 0.689017 | 6.960625 | -75.933 | 144.6791 | 1014.975 | 24.28907 | |
| 1.013434 | 0.023479 | 0.690641 | 6.960526 | -75.928 | 144.69 | 1014.976 | 24.28943 | |
| 1.013402 | 0.009824 | 0.659143 | 6.959287 | -75.8594 | 144.5825 | 1014.952 | 24.28094 | |
| 1.013401 | 0.00998 | 0.659503 | 6.959201 | -75.8548 | 144.5786 | 1014.951 | 24.2807 | |
| 1.0134 | 0.010136 | 0.659863 | 6.959116 | -75.8502 | 144.5748 | 1014.951 | 24.28045 | |
| 1.013365 | -0.04159 | 0.540547 | 6.958148 | -75.8055 | 144.3397 | 1014.984 | 24.29711 | |
| 1.013363 | -0.04426 | 0.534391 | 6.958081 | -75.8022 | 144.3271 | 1014.985 | 24.29769 | |
| 1.013361 | -0.04693 | 0.528235 | 6.958014 | -75.7988 | 144.3145 | 1014.986 | 24.29828 | |
| 1.013359 | -0.0496 | 0.52208 | 6.957946 | -75.7955 | 144.3019 | 1014.987 | 24.29887 | |

Location Properties

T4-3HB

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 07:49:28

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 2.726359 | 38.65081 | 57.58637 | 36136.35 | 26.9384 | 34846.23 | 22.27551 | 22.65005 | 27.67297 |
| ##### | 2.702573 | 38.34186 | 57.11996 | 36217.24 | 26.96488 | 34907.2 | 22.31889 | 22.68968 | 27.61118 |
| ##### | 2.700875 | 38.31915 | 57.08582 | 36219.59 | 26.9671 | 34908.04 | 22.31951 | 22.69022 | 27.60939 |
| ##### | 2.699177 | 38.29645 | 57.05169 | 36221.94 | 26.96932 | 34908.87 | 22.32012 | 22.69077 | 27.60759 |
| ##### | 2.697479 | 38.27374 | 57.01754 | 36224.29 | 26.97154 | 34909.71 | 22.32073 | 22.69131 | 27.6058 |
| ##### | 2.677866 | 38.01225 | 56.62453 | 36194.95 | 26.99153 | 34868.61 | 22.29185 | 22.6646 | 27.62817 |
| ##### | 2.676522 | 37.99448 | 56.59778 | 36195.19 | 26.99295 | 34867.93 | 22.29139 | 22.66415 | 27.62798 |
| ##### | 2.675178 | 37.97671 | 56.57103 | 36195.43 | 26.99437 | 34867.25 | 22.29092 | 22.66371 | 27.6278 |
| ##### | 2.673834 | 37.95893 | 56.54428 | 36195.68 | 26.99579 | 34866.57 | 22.29045 | 22.66327 | 27.62761 |
| ##### | 2.657134 | 37.72665 | 56.19446 | 36144.17 | 27.03615 | 34791.14 | 22.23749 | 22.61424 | 27.66699 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013187 | -0.04568 | 0.531108 | 6.97193 | -76.6996 | 109.186 | 1015.118 | 24.42005 | |
| 1.013211 | -0.04828 | 0.525124 | 6.970452 | -76.6231 | 109.0584 | 1015.067 | 24.42849 | |
| 1.013211 | -0.04846 | 0.524696 | 6.97035 | -76.618 | 109.0499 | 1015.065 | 24.42887 | |
| 1.013211 | -0.04865 | 0.524267 | 6.970247 | -76.6128 | 109.0414 | 1015.064 | 24.42926 | |
| 1.013211 | -0.04883 | 0.523838 | 6.970145 | -76.6076 | 109.0329 | 1015.063 | 24.42965 | |
| 1.013183 | -0.04882 | 0.523863 | 6.968955 | -76.5455 | 108.9126 | 1015.079 | 24.42968 | |
| 1.013182 | -0.04888 | 0.523745 | 6.968873 | -76.5412 | 108.9048 | 1015.078 | 24.42985 | |
| 1.013181 | -0.04893 | 0.523627 | 6.968791 | -76.537 | 108.8969 | 1015.078 | 24.43002 | |
| 1.013181 | -0.04898 | 0.523509 | 6.968709 | -76.5327 | 108.8891 | 1015.078 | 24.43018 | |
| 1.013129 | -0.04386 | 0.535309 | 6.967138 | -76.4562 | 108.7604 | 1015.062 | 24.43 | |

Location Properties

T4-3HS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 07:43:49

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.631177 | 65.1198 | 97.10365 | 35636.27 | 26.50666 | 34639.44 | 22.12497 | 22.51563 | 28.06131 | |
| ##### 4.613324 | 64.87321 | 96.73542 | 35643.6 | 26.50911 | 34644.99 | 22.12892 | 22.51925 | 28.05551 | |
| ##### 4.595471 | 64.62662 | 96.3672 | 35650.93 | 26.51155 | 34650.55 | 22.13287 | 22.52286 | 28.04972 | |
| ##### 4.438326 | 62.42178 | 93.07565 | 35601.55 | 26.51095 | 34602.94 | 22.09924 | 22.49191 | 28.08867 | |
| ##### 4.424029 | 62.22272 | 92.77846 | 35602.2 | 26.51189 | 34602.96 | 22.09926 | 22.49192 | 28.08816 | |
| ##### 4.409732 | 62.02368 | 92.48126 | 35602.84 | 26.51283 | 34602.98 | 22.09929 | 22.49194 | 28.08765 | |
| ##### 4.395434 | 61.82463 | 92.18407 | 35603.48 | 26.51378 | 34603 | 22.09931 | 22.49195 | 28.08714 | |
| ##### 4.247554 | 59.74989 | 89.08588 | 35570.22 | 26.54768 | 34548.94 | 22.06149 | 22.45681 | 28.11341 | |
| ##### 4.236732 | 59.59832 | 88.85954 | 35568.23 | 26.54932 | 34545.95 | 22.05939 | 22.45487 | 28.11498 | |
| ##### 4.225911 | 59.44674 | 88.63321 | 35566.24 | 26.55096 | 34542.96 | 22.0573 | 22.45293 | 28.11655 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013204 | -0.05127 | 0.518219 | 7.019355 | -79.21 | 115.8 | 1015.04 | 24.32018 | |
| 1.013206 | -0.04902 | 0.523412 | 7.019126 | -79.1974 | 115.8246 | 1015.04 | 24.31958 | |
| 1.013209 | -0.04677 | 0.528606 | 7.018898 | -79.1849 | 115.8492 | 1015.04 | 24.31898 | |
| 1.013184 | -0.09466 | 0.418126 | 7.017194 | -79.0947 | 115.7255 | 1015.031 | 24.33756 | |
| 1.013183 | -0.09597 | 0.415117 | 7.017025 | -79.0855 | 115.7296 | 1015.031 | 24.33818 | |
| 1.013183 | -0.09727 | 0.412107 | 7.016856 | -79.0764 | 115.7337 | 1015.03 | 24.33879 | |
| 1.013183 | -0.09858 | 0.409098 | 7.016687 | -79.0673 | 115.7378 | 1015.03 | 24.33941 | |
| 1.013144 | -0.08064 | 0.450476 | 7.014791 | -78.9679 | 115.6399 | 1015.012 | 24.32202 | |
| 1.013142 | -0.08066 | 0.450421 | 7.014658 | -78.9609 | 115.6347 | 1015.011 | 24.32159 | |
| 1.01314 | -0.08069 | 0.450367 | 7.014526 | -78.9539 | 115.6295 | 1015.01 | 24.32116 | |

Location Properties

T4-4HB

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 08:07:48

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.548446 | 65.73203 | 97.71119 | 37119.11 | 28.00809 | 35102.31 | 22.46625 | 22.8165 | 26.94028 | |
| ##### 4.237306 | 61.23452 | 91.02556 | 37065.93 | 28.02906 | 35038.76 | 22.4214 | 22.7752 | 26.97896 | |
| ##### 4.213572 | 60.89217 | 90.51659 | 37065.5 | 28.03002 | 35037.76 | 22.4207 | 22.77454 | 26.97927 | |
| ##### 4.189838 | 60.5498 | 90.00763 | 37065.08 | 28.03097 | 35036.75 | 22.41999 | 22.77389 | 26.97958 | |
| ##### 3.989283 | 57.67844 | 85.73724 | 37186.74 | 28.03069 | 35151.93 | 22.5016 | 22.84875 | 26.89136 | |
| ##### 3.974216 | 57.46188 | 85.41522 | 37191.19 | 28.03106 | 35155.9 | 22.50442 | 22.85133 | 26.88813 | |
| ##### 3.959148 | 57.24532 | 85.09321 | 37195.64 | 28.03144 | 35159.87 | 22.50723 | 22.85391 | 26.8849 | |
| ##### 3.94408 | 57.02876 | 84.7712 | 37200.09 | 28.03182 | 35163.83 | 22.51005 | 22.85649 | 26.88168 | |
| ##### 3.821747 | 55.28489 | 82.17231 | 37186.64 | 28.07182 | 35125.75 | 22.48337 | 22.83174 | 26.89139 | |
| ##### 3.812305 | 55.15002 | 81.97149 | 37188.23 | 28.07364 | 35126.1 | 22.48363 | 22.83196 | 26.89024 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013001 | -0.05795 | 0.502808 | 7.065817 | -82.1934 | 98.16884 | 1015.18 | 24.71023 | |
| 1.012961 | -0.06253 | 0.492245 | 7.063597 | -82.0739 | 98.51836 | 1015.215 | 24.71 | |
| 1.01296 | -0.0629 | 0.491391 | 7.063422 | -82.0644 | 98.54173 | 1015.216 | 24.71 | |
| 1.012959 | -0.06327 | 0.490536 | 7.063247 | -82.0548 | 98.56511 | 1015.218 | 24.71 | |
| 1.01302 | 0.059094 | 0.772793 | 7.06137 | -81.9611 | 98.85397 | 1015.193 | 24.71839 | |
| 1.013022 | 0.06443 | 0.785102 | 7.061243 | -81.9545 | 98.87364 | 1015.193 | 24.71876 | |
| 1.013024 | 0.069767 | 0.797411 | 7.061115 | -81.948 | 98.89331 | 1015.192 | 24.71913 | |
| 1.013026 | 0.075103 | 0.80972 | 7.060988 | -81.9415 | 98.91298 | 1015.192 | 24.71951 | |
| 1.012994 | -0.07088 | 0.472995 | 7.059825 | -81.8757 | 99.19434 | 1015.191 | 24.71966 | |
| 1.012993 | -0.07525 | 0.462905 | 7.059736 | -81.8709 | 99.21258 | 1015.19 | 24.71982 | |

Location Properties

T4-4HS

Location Name = Device Location

Report Properties

Start Time = 2022-09-22 08:00:57

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.630388 | 67.61343 | 100.3527 | 37159.17 | 28.73492 | 34684.86 | 22.17589 | 22.54515 | 26.91126 | |
| ##### 4.476393 | 65.34661 | 96.99216 | 37189.74 | 28.7056 | 34731.54 | 22.20874 | 22.5755 | 26.88914 | |
| ##### 4.466335 | 65.19856 | 96.77267 | 37191.73 | 28.70369 | 34734.59 | 22.21089 | 22.57749 | 26.8877 | |
| ##### 4.456277 | 65.05051 | 96.55318 | 37193.73 | 28.70177 | 34737.64 | 22.21304 | 22.57947 | 26.88625 | |
| ##### 4.44622 | 64.90246 | 96.3337 | 37195.73 | 28.69986 | 34740.69 | 22.21518 | 22.58145 | 26.88481 | |
| ##### 4.378353 | 63.86362 | 94.80473 | 37213.86 | 28.66659 | 34778.28 | 22.24157 | 22.60588 | 26.87171 | |
| ##### 4.371302 | 63.75804 | 94.6487 | 37215.46 | 28.66433 | 34781.18 | 22.24361 | 22.60777 | 26.87055 | |
| ##### 4.364252 | 63.65247 | 94.49268 | 37217.07 | 28.66207 | 34784.09 | 22.24565 | 22.60966 | 26.86939 | |
| ##### 4.357201 | 63.54689 | 94.33667 | 37218.68 | 28.65981 | 34786.99 | 22.24769 | 22.61154 | 26.86823 | |
| ##### 4.296789 | 62.62413 | 92.97218 | 37169.63 | 28.59936 | 34778.67 | 22.24139 | 22.60614 | 26.90369 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.012555 | -0.06548 | 0.485434 | 7.030744 | -80.4245 | 111.1339 | 1015.29 | 24.55 | |
| 1.012589 | -0.09263 | 0.42281 | 7.028333 | -80.2793 | 110.5613 | 1015.262 | 24.55 | |
| 1.012591 | -0.09441 | 0.41872 | 7.028175 | -80.2698 | 110.5239 | 1015.26 | 24.55 | |
| 1.012594 | -0.09618 | 0.41463 | 7.028018 | -80.2603 | 110.4865 | 1015.258 | 24.55 | |
| 1.012596 | -0.09795 | 0.41054 | 7.027861 | -80.2508 | 110.4491 | 1015.257 | 24.55 | |
| 1.012626 | -0.07488 | 0.46376 | 7.026937 | -80.1955 | 110.1618 | 1015.269 | 24.55857 | |
| 1.012628 | -0.07455 | 0.46453 | 7.026834 | -80.1892 | 110.134 | 1015.269 | 24.55896 | |
| 1.01263 | -0.07421 | 0.465299 | 7.02673 | -80.183 | 110.1062 | 1015.269 | 24.55934 | |
| 1.012633 | -0.07388 | 0.466069 | 7.026625 | -80.1767 | 110.0784 | 1015.269 | 24.55973 | |
| 1.012647 | -0.06474 | 0.487158 | 7.026165 | -80.1298 | 109.7914 | 1015.235 | 24.55973 | |

Location Properties

T4-4L

Location Name = Device Location

Report Properties

Start Time = 2022-09-27 17:35:48

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 6.791981 | 100.8287 | 146.8341 | 36940.04 | 30.0727 | 33677.12 | 21.47096 | 21.89013 | 27.07095 | |
| ##### 6.793422 | 100.8492 | 146.8644 | 36944.15 | 30.07006 | 33682.42 | 21.47469 | 21.89357 | 27.06793 | |
| ##### 6.794863 | 100.8698 | 146.8948 | 36948.27 | 30.06742 | 33687.72 | 21.47842 | 21.89702 | 27.0649 | |
| ##### 6.828688 | 101.302 | 147.5414 | 36962.22 | 30.05157 | 33709.74 | 21.49389 | 21.91133 | 27.05468 | |
| ##### 6.830612 | 101.3276 | 147.5795 | 36965.3 | 30.05038 | 33713.25 | 21.49636 | 21.91361 | 27.05241 | |
| ##### 6.832536 | 101.3531 | 147.6176 | 36968.38 | 30.0492 | 33716.75 | 21.49882 | 21.91589 | 27.05015 | |
| ##### 6.83446 | 101.3787 | 147.6558 | 36971.47 | 30.04801 | 33720.26 | 21.50129 | 21.91817 | 27.04788 | |
| ##### 6.854484 | 101.6294 | 148.0305 | 36904.07 | 29.99774 | 33688.29 | 21.47853 | 21.89739 | 27.09729 | |
| ##### 6.856062 | 101.6493 | 148.0603 | 36901.3 | 29.99517 | 33687.27 | 21.47779 | 21.89672 | 27.09933 | |
| ##### 6.85764 | 101.6692 | 148.0901 | 36898.54 | 29.99261 | 33686.25 | 21.47706 | 21.89606 | 27.10135 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.011599 | -0.04545 | 0.531637 | 7.115935 | -81.0344 | 234.8952 | 1016.987 | 30.77969 | |
| 1.011603 | -0.04547 | 0.531608 | 7.116732 | -81.0787 | 234.8243 | 1016.985 | 30.77986 | |
| 1.011606 | -0.04548 | 0.531579 | 7.11753 | -81.123 | 234.7534 | 1016.983 | 30.78003 | |
| 1.011623 | -0.02596 | 0.576607 | 7.129471 | -81.7856 | 233.6792 | 1016.982 | 30.78 | |
| 1.011625 | -0.02495 | 0.578932 | 7.130249 | -81.8289 | 233.6093 | 1016.981 | 30.78 | |
| 1.011627 | -0.02394 | 0.581258 | 7.131027 | -81.8721 | 233.5394 | 1016.98 | 30.78 | |
| 1.01163 | -0.02293 | 0.583583 | 7.131805 | -81.9154 | 233.4695 | 1016.979 | 30.78 | |
| 1.011629 | -0.00454 | 0.626019 | 7.142786 | -82.5209 | 232.4696 | 1016.997 | 30.78853 | |
| 1.01163 | -0.00332 | 0.628823 | 7.143516 | -82.5612 | 232.4033 | 1016.997 | 30.78891 | |
| 1.01163 | -0.0021 | 0.631628 | 7.144247 | -82.6016 | 232.3371 | 1016.998 | 30.78929 | |

Location Properties

BG-1LT

Location Name = Device Location

Report Properties

Start Time = 2022-09-28 07:48:22

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 4.846069 | 62.85397 | 93.22719 | 34213.14 | 21.52393 | 36646.29 | 23.4603 | 23.82009 | 29.22854 | |
| ##### 4.833436 | 62.71263 | 93.0145 | 34213.79 | 21.53542 | 36638.33 | 23.45495 | 23.81491 | 29.22798 | |
| ##### 4.820803 | 62.57129 | 92.8018 | 34214.44 | 21.54691 | 36630.37 | 23.4496 | 23.80974 | 29.22743 | |
| ##### 4.703361 | 61.24258 | 90.80173 | 34380.56 | 21.92578 | 36525.43 | 23.38426 | 23.74153 | 29.08632 | |
| ##### 4.694145 | 61.13967 | 90.6467 | 34388.52 | 21.94622 | 36518.67 | 23.37996 | 23.73713 | 29.07957 | |
| ##### 4.684929 | 61.03676 | 90.49167 | 34396.47 | 21.96667 | 36511.91 | 23.37567 | 23.73274 | 29.07281 | |
| ##### 4.675714 | 60.93385 | 90.33664 | 34404.43 | 21.98711 | 36505.15 | 23.37137 | 23.72835 | 29.06605 | |
| ##### 4.589792 | 59.93928 | 88.83957 | 34309.23 | 22.15853 | 36278.38 | 23.21472 | 23.58095 | 29.14671 | |
| ##### 4.583611 | 59.86847 | 88.73297 | 34308.46 | 22.17345 | 36266.55 | 23.20669 | 23.57326 | 29.14736 | |
| ##### 4.57743 | 59.79765 | 88.62637 | 34307.7 | 22.18838 | 36254.73 | 23.19866 | 23.56557 | 29.148 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.015601 | -0.0512 | 0.518374 | 5.836219 | -8.86145 | 138.6279 | 1018.398 | 19.31799 | |
| 1.015594 | -0.05135 | 0.518029 | 5.840035 | -9.07017 | 138.6457 | 1018.399 | 19.31887 | |
| 1.015587 | -0.0515 | 0.517684 | 5.84385 | -9.27889 | 138.6635 | 1018.4 | 19.31975 | |
| 1.015439 | -0.04163 | 0.540458 | 5.891808 | -11.9164 | 138.7831 | 1018.391 | 19.3453 | |
| 1.01543 | -0.04125 | 0.541328 | 5.895152 | -12.1 | 138.7938 | 1018.391 | 19.34664 | |
| 1.015422 | -0.04088 | 0.542197 | 5.898495 | -12.2836 | 138.8046 | 1018.39 | 19.34799 | |
| 1.015413 | -0.0405 | 0.543067 | 5.901839 | -12.4672 | 138.8153 | 1018.39 | 19.34933 | |
| 1.01525 | -0.06387 | 0.489162 | 5.945986 | -14.8907 | 138.7855 | 1018.407 | 19.37441 | |
| 1.01524 | -0.06467 | 0.487306 | 5.948872 | -15.0492 | 138.7868 | 1018.407 | 19.37599 | |
| 1.01523 | -0.06548 | 0.485451 | 5.951758 | -15.2077 | 138.7882 | 1018.408 | 19.37757 | |

Location Properties

T1-4LT

Location Name = Device Location

Report Properties

Start Time = 2022-09-28 07:59:29

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|-----------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### | 6.972258 | 92.4078 | 136.7198 | 33633.1 | 23.33856 | 34732.31 | 22.16413 | 22.576 | 74739.81 |
| ##### | 6.951404 | 92.37425 | 136.6663 | 34186.11 | 23.34858 | 35303.34 | 22.52787 | 22.94717 | 0 |
| ##### | 6.932509 | 92.06187 | 136.1881 | 33767.76 | 23.37935 | 34846.44 | 22.22775 | 22.65018 | 29.61433 |
| ##### | 6.930899 | 92.04155 | 136.1572 | 33756.48 | 23.38106 | 34833.61 | 22.21874 | 22.64185 | 29.62411 |
| ##### | 6.929289 | 92.02123 | 136.1263 | 33745.21 | 23.38278 | 34820.79 | 22.20973 | 22.63351 | 29.63389 |
| ##### | 6.927679 | 92.00092 | 136.0954 | 33733.93 | 23.3845 | 34807.97 | 22.20071 | 22.62518 | 29.64367 |
| ##### | 6.912446 | 91.90071 | 135.9392 | 33888.23 | 23.4628 | 34913.29 | 22.27632 | 22.69364 | 29.50885 |
| ##### | 6.911175 | 91.88982 | 135.9224 | 33892.84 | 23.46695 | 34915.18 | 22.27773 | 22.69487 | 29.50482 |
| ##### | 6.909905 | 91.87893 | 135.9056 | 33897.45 | 23.4711 | 34917.09 | 22.27914 | 22.69611 | 29.50079 |
| ##### | 6.91025 | 91.89815 | 135.9206 | 33793.84 | 23.50924 | 34784.29 | 22.1862 | 22.60979 | 29.59124 |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.01414 | -0.04908 | 0.523264 | 6.650852 | -53.6863 | 118.8627 | 1018.61 | 20.16897 | |
| 1.014412 | -0.04898 | 0.523499 | 6.65174 | -53.7383 | 118.8959 | 1018.61 | 20.16951 | |
| 1.014177 | -0.04454 | 0.533749 | 6.665268 | -54.4878 | 119.1921 | 1018.61 | 20.16964 | |
| 1.01417 | -0.0442 | 0.534537 | 6.666139 | -54.5361 | 119.2134 | 1018.61 | 20.1698 | |
| 1.014163 | -0.04385 | 0.535325 | 6.66701 | -54.5844 | 119.2348 | 1018.61 | 20.16995 | |
| 1.014155 | -0.04351 | 0.536113 | 6.667881 | -54.6328 | 119.2561 | 1018.61 | 20.17011 | |
| 1.014191 | -0.04979 | 0.521632 | 6.68011 | -55.3193 | 119.4602 | 1018.618 | 20.17864 | |
| 1.014191 | -0.04998 | 0.521199 | 6.68092 | -55.3646 | 119.4753 | 1018.619 | 20.17902 | |
| 1.014191 | -0.05017 | 0.520766 | 6.68173 | -55.4099 | 119.4903 | 1018.619 | 20.1794 | |
| 1.01411 | -0.03813 | 0.548526 | 6.694252 | -56.1027 | 119.6404 | 1018.586 | 20.18794 | |

Location Properties

T2-4LT

Location Name = Device Location

Report Properties

Start Time = 2022-09-28 08:07:09

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 5.591003 | 74.15443 | 109.701 | 33464.92 | 23.43037 | 34499.21 | 21.98408 | 22.42448 | 29.88206 | |
| ##### 5.580324 | 74.01266 | 109.491 | 33464.16 | 23.43035 | 34498.44 | 21.98354 | 22.42399 | 29.88273 | |
| ##### 5.569644 | 73.8709 | 109.2811 | 33463.4 | 23.43032 | 34497.67 | 21.983 | 22.42349 | 29.88341 | |
| ##### 5.558965 | 73.72913 | 109.0711 | 33462.64 | 23.4303 | 34496.91 | 21.98246 | 22.42299 | 29.88408 | |
| ##### 5.400288 | 71.67248 | 106.0225 | 33463.42 | 23.4545 | 34481.28 | 21.97188 | 22.41283 | 29.88338 | |
| ##### 5.390138 | 71.53976 | 105.8257 | 33462.28 | 23.45562 | 34479.34 | 21.97053 | 22.41157 | 29.8844 | |
| ##### 5.379987 | 71.40704 | 105.629 | 33461.13 | 23.45674 | 34477.4 | 21.96919 | 22.41031 | 29.88542 | |
| ##### 5.369836 | 71.27433 | 105.4322 | 33459.99 | 23.45786 | 34475.46 | 21.96784 | 22.40905 | 29.88644 | |
| ##### 5.216704 | 69.26571 | 102.4634 | 33505.9 | 23.49275 | 34499.07 | 21.98505 | 22.4244 | 29.8455 | |
| ##### 5.206697 | 69.13491 | 102.2699 | 33507.98 | 23.49477 | 34499.84 | 21.98562 | 22.4249 | 29.84364 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.01398 | -0.05438 | 0.511052 | 7.054446 | -75.8902 | 113.7178 | 1018.661 | 20.3176 | |
| 1.013979 | -0.05376 | 0.512472 | 7.054547 | -75.896 | 113.7184 | 1018.659 | 20.31831 | |
| 1.013979 | -0.05315 | 0.513892 | 7.054647 | -75.9018 | 113.719 | 1018.657 | 20.31902 | |
| 1.013978 | -0.05253 | 0.515311 | 7.054748 | -75.9075 | 113.7196 | 1018.654 | 20.31973 | |
| 1.013964 | -0.05583 | 0.507713 | 7.055459 | -75.9513 | 113.6961 | 1018.67 | 20.31105 | |
| 1.013963 | -0.05579 | 0.507803 | 7.055522 | -75.9551 | 113.695 | 1018.669 | 20.31082 | |
| 1.013961 | -0.05575 | 0.507893 | 7.055585 | -75.9589 | 113.6938 | 1018.669 | 20.31059 | |
| 1.01396 | -0.05571 | 0.507983 | 7.055648 | -75.9627 | 113.6926 | 1018.668 | 20.31036 | |
| 1.013963 | -0.0565 | 0.506163 | 7.05683 | -76.0352 | 113.653 | 1018.722 | 20.32774 | |
| 1.013963 | -0.05659 | 0.505945 | 7.056897 | -76.0393 | 113.6508 | 1018.724 | 20.32835 | |

Location Properties

T3-4LT

Location Name = Device Location

Report Properties

Start Time = 2022-09-28 08:14:02

Time Offset = -04:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 5.163816 | 68.49979 | 101.3271 | 33412.7 | 23.42883 | 34446.41 | 21.9469 | 22.39017 | 29.92874 | |
| ##### 5.153924 | 68.37019 | 101.135 | 33410.99 | 23.42983 | 34443.98 | 21.9452 | 22.38858 | 29.93027 | |
| ##### 5.027138 | 66.72388 | 98.6935 | 33466.61 | 23.46984 | 34474.16 | 21.96712 | 22.4082 | 29.88054 | |
| ##### 5.018328 | 66.60913 | 98.52341 | 33468.56 | 23.47184 | 34474.8 | 21.96761 | 22.40862 | 29.87879 | |
| ##### 5.009517 | 66.49437 | 98.35332 | 33470.51 | 23.47385 | 34475.45 | 21.9681 | 22.40904 | 29.87705 | |
| ##### 4.892922 | 64.95627 | 96.07812 | 33455.8 | 23.48971 | 34449.55 | 21.95015 | 22.39221 | 29.89019 | |
| ##### 4.885253 | 64.85561 | 95.92909 | 33456.13 | 23.49116 | 34448.91 | 21.94972 | 22.39179 | 29.88989 | |
| ##### 4.877585 | 64.75494 | 95.78007 | 33456.46 | 23.49261 | 34448.27 | 21.94929 | 22.39138 | 29.88959 | |
| ##### 4.869917 | 64.65429 | 95.63105 | 33456.8 | 23.49406 | 34447.63 | 21.94887 | 22.39096 | 29.88929 | |
| ##### 4.750738 | 63.09277 | 93.31362 | 33441.86 | 23.51669 | 34416.94 | 21.92765 | 22.37101 | 29.90264 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.013952 | -0.0611 | 0.49554 | 7.165581 | -81.9991 | 99.5844 | 1018.608 | 20.52949 | |
| 1.01395 | -0.06117 | 0.495379 | 7.165525 | -81.9963 | 99.6133 | 1018.609 | 20.52989 | |
| 1.013956 | -0.06406 | 0.488722 | 7.164731 | -81.9631 | 100.0126 | 1018.583 | 20.52979 | |
| 1.013956 | -0.06427 | 0.488226 | 7.164681 | -81.961 | 100.0391 | 1018.582 | 20.52996 | |
| 1.013956 | -0.06449 | 0.487731 | 7.164632 | -81.9588 | 100.0656 | 1018.581 | 20.53013 | |
| 1.013938 | -0.06248 | 0.492364 | 7.163778 | -81.9181 | 100.4061 | 1018.606 | 20.53 | |
| 1.013937 | -0.06244 | 0.492444 | 7.163724 | -81.9156 | 100.429 | 1018.607 | 20.53 | |
| 1.013936 | -0.06241 | 0.492524 | 7.163671 | -81.9131 | 100.4519 | 1018.607 | 20.53 | |
| 1.013936 | -0.06238 | 0.492605 | 7.163618 | -81.9107 | 100.4748 | 1018.608 | 20.53 | |
| 1.013914 | -0.05338 | 0.513352 | 7.163222 | -81.8889 | 100.7834 | 1018.565 | 20.53 | |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|---|---------------------------------|------------------------------------|
| Field Technician: William Leaker | Date: 12/1/22 | Time (Calibration): 8:25 | Time (Mid-day Check): 14:57 |
| AquaTroll SN: 789310 | Turbidity Meter Type: LaMotte 2020 | SN: 9453-4417 | |
| Project: Dec 2022 Sampling | Weather Conditions: 62°/44° sunny | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 102.56 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 9.42 | 4490 | 3874.9 | |
| pH (4) | 21470032 04/23 | 9.59 | 4 | 4.03 | |
| pH (7) | 21380102 04/23 | 10.48 | 7 | 7.15 | |
| pH (10) | 20080056 04/23 | 11.18 | 10 | 10.29 | |
| ORP (mV) | 21140143 04/23 | 10.99 | 228 | 233.1 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.01 | -/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 0.84 | -/-0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 9.86 | -/-0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | 16.90 | 4 | 4.08 | -/-0.1 SU | Yes | No | |
| Mid-Day pH (7) check | 16.63 | 7 | 7.10 | -/-0.1 SU | Yes | No | |
| Mid-Day pH (10) check | 16.95 | 10 | 10.25 | -/-0.1 SU | Yes | No | |

Calibration Report

Instrument Aqua TROLL 400
Serial Number 789310
Created 12/1/2022

Sensor

Sensor RDO
Serial Number 878616
Last Calibrated 12/1/2022

Calibration Details

Slope 0.9879361
Offset 0.00 mg/L

Calibration point 100%

Concentration 11.89 mg/L
Temperature 9.04 °C
Barometric Pressure 1,030.8 mbar

Sensor

Sensor Conductivity
Serial Number 789310
Last Calibrated 12/1/2022

Calibration Details

Cell Constant 0.992
Reference Temperature 20.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor

| | |
|-----------------|------------------|
| Sensor | Level |
| Serial Number | 787063 |
| Last Calibrated | Factory Defaults |

Sensor

| | |
|-----------------|-----------|
| Sensor | pH/ORP |
| Serial Number | 21174 |
| Last Calibrated | 12/1/2022 |

Calibration Details

| | |
|--------------------------|---|
| Total Calibration Points | 3 |
|--------------------------|---|

Calibration Point 1

| | |
|--------------|---------|
| pH of Buffer | 4.00 pH |
| pH mV | 96.9 mV |
| Temperature | 9.59 °C |

Calibration Point 2

| | |
|--------------|----------|
| pH of Buffer | 7.06 pH |
| pH mV | -70.8 mV |
| Temperature | 10.48 °C |

Calibration Point 3

| | |
|--------------|-----------|
| pH of Buffer | 10.14 pH |
| pH mV | -232.6 mV |
| Temperature | 11.19 °C |

Slope and Offset 1

| | |
|--------|--------------|
| Slope | -54.79 mV/pH |
| Offset | -67.5 mV |

Slope and Offset 2

Slope -52.54 mV/pH

Offset -67.6 mV

ORP

ORP Solution ORP Standard

Offset 52.0 mV

Temperature 10.99 °C

Location Properties

T1-1HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-01 14:41:06

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789310

Instrument Properties

Device Model = PowerPack

Device SN = 784034

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.592727 | 94.3515 | 151.2706 | 35990.8 | 19.22848 | 36529.11 | 26.09652 | 23.74392 | 27.78488 | |
| ##### 7.593369 | 94.35524 | 151.2772 | 35990.04 | 19.22451 | 36531.13 | 26.09821 | 23.74524 | 27.78547 | |
| ##### 7.59401 | 94.35898 | 151.2838 | 35989.26 | 19.22054 | 36533.16 | 26.0999 | 23.74655 | 27.78607 | |
| ##### 7.605653 | 94.51053 | 151.5314 | 36039.54 | 19.21029 | 36591.47 | 26.14632 | 23.78446 | 27.74731 | |
| ##### 7.606335 | 94.5182 | 151.5441 | 36041.36 | 19.20828 | 36594.73 | 26.14896 | 23.78658 | 27.74591 | |
| ##### 7.607017 | 94.52586 | 151.5567 | 36043.17 | 19.20627 | 36598 | 26.15159 | 23.7887 | 27.74451 | |
| ##### 7.612274 | 94.47854 | 151.5004 | 36035.41 | 19.18098 | 36608.08 | 26.16014 | 23.79525 | 27.75049 | |
| ##### 7.612726 | 94.47906 | 151.5022 | 36035.92 | 19.1796 | 36609.58 | 26.16136 | 23.79623 | 27.75009 | |
| ##### 7.613177 | 94.47958 | 151.504 | 36036.44 | 19.17822 | 36611.08 | 26.16258 | 23.7972 | 27.74969 | |
| ##### 7.613629 | 94.4801 | 151.5059 | 36036.95 | 19.17684 | 36612.59 | 26.1638 | 23.79818 | 27.74929 | |
| ##### 7.61361 | 94.48901 | 151.5206 | 36035.27 | 19.13692 | 36639.26 | 26.18584 | 23.81552 | 27.75059 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.018177 | -0.22117 | 0.126308 | 5.611862 | 5.796972 | 157.5925 | 1030.47 | 20.88138 | |
| 1.018179 | -0.22141 | 0.125774 | 5.61145 | 5.685845 | 157.5709 | 1030.47 | 20.88065 | |
| 1.018182 | -0.22164 | 0.125241 | 5.611039 | 5.574719 | 157.5494 | 1030.47 | 20.87993 | |
| 1.018219 | -0.21845 | 0.132603 | 5.636591 | 4.209542 | 157.2085 | 1030.487 | 20.86308 | |
| 1.018222 | -0.21843 | 0.132637 | 5.637283 | 4.115529 | 157.1868 | 1030.488 | 20.86216 | |
| 1.018224 | -0.21842 | 0.13267 | 5.637975 | 4.021516 | 157.1652 | 1030.488 | 20.86124 | |
| 1.018237 | -0.22416 | 0.119431 | 5.680831 | 1.722255 | 156.7337 | 1030.531 | 20.85245 | |
| 1.018238 | -0.22437 | 0.118948 | 5.683238 | 1.591879 | 156.7078 | 1030.533 | 20.85175 | |
| 1.018239 | -0.22457 | 0.118466 | 5.685646 | 1.461503 | 156.6819 | 1030.535 | 20.85104 | |
| 1.018241 | -0.22478 | 0.117984 | 5.688053 | 1.331127 | 156.6559 | 1030.537 | 20.85034 | |
| 1.018267 | -0.20589 | 0.161554 | 5.721827 | -0.49757 | 156.3884 | 1030.538 | 20.84178 | |

EQUIPMENT CALIBRATION LOG

| | | | |
|---|---|---------------------------------|-----------------------|
| Field Technician: William Laaker | Date: 12/20/22 | Time (Calibration): 5:45 | Time (Mid-day Check): |
| AquaTroll SN: 789301 | Turbidity Meter Type: LaMotte 2020 | SN: 7042-3818 | |
| Project: Dec 2022 Surface Water | Weather Conditions: 59°/51° rain | | |

Calibration Log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Instrument Reading at Calibration | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------------------------|----------|
| DO (%) (1pt, 100% water saturated air cal) | | | | 103.98 | |
| Specific Conductance (µS/cm) | 21470032 04/23 | 10.47 | 4490 | 4524.7 | |
| pH (4) | 21470032 04/23 | 10.55 | 4 | 4.04 | |
| pH (7) | 21380102 04/23 | 10.77 | 7 | 7.14 | |
| pH (10) | 20080056 04/23 | 10.89 | 10 | 10.24 | |
| ORP (mV) | 21140143 04/23 | 10.88 | 228 | 228.1 | |

| | Value of Standard | Instrument Reading | Acceptable Range | Pass? | | Comments |
|------------------|-------------------|--------------------|------------------|-------|----|----------|
| Turbidity 0 NTU | 0 | 0.01 | +/-0.5 NTU | Yes | No | |
| Turbidity 1 NTU | 1 | 1.18 | +/- 0.5 NTU | Yes | No | |
| Turbidity 10 NTU | 10 | 9.80 | +/- 0.5 NTU | Yes | No | |

| | Temp of Standard (°C) | Value of Standard | Post Calibration Reading | Acceptable Range | Pass? | | Comments |
|-----------------------|-----------------------|-------------------|--------------------------|------------------|-------|----|----------|
| Mid-Day pH (4) check | | 4 | | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (7) check | | 7 | | +/- 0.1 SU | Yes | No | |
| Mid-Day pH (10) check | | 10 | | +/- 0.1 SU | Yes | No | |

Calibration Report

| | |
|---------------|----------------|
| Instrument | Aqua TROLL 400 |
| Serial Number | 789301 |
| Created | 12/20/2022 |

| | |
|--------|------------|
| Sensor | RDO |
|--------|------------|

| | |
|-----------------|------------|
| Serial Number | 878603 |
| Last Calibrated | 12/20/2022 |

Calibration Details

| | |
|--------|-----------|
| Slope | 1.042314 |
| Offset | 0.00 mg/L |

Calibration point 100%

| | |
|---------------------|--------------|
| Concentration | 10.92 mg/L |
| Temperature | 10.26 °C |
| Barometric Pressure | 1,028.1 mbar |

| | |
|--------|---------------------|
| Sensor | Conductivity |
|--------|---------------------|

| | |
|-----------------|------------|
| Serial Number | 789301 |
| Last Calibrated | 12/20/2022 |

Calibration Details

| | |
|-----------------------------|----------|
| Cell Constant | 1.13 |
| Reference Temperature | 20.00 °C |
| TDS Conversion Factor (ppm) | 0.65 |

| | |
|--------|--------------|
| Sensor | Level |
|--------|--------------|

| | |
|-----------------|------------------|
| Serial Number | 787061 |
| Last Calibrated | Factory Defaults |

| Sensor | pH/ORP |
|-----------------|------------|
| Serial Number | 21177 |
| Last Calibrated | 12/20/2022 |

Calibration Details

| | |
|--------------------------|---|
| Total Calibration Points | 3 |
|--------------------------|---|

Calibration Point 1

| | |
|--------------|----------|
| pH of Buffer | 4.00 pH |
| pH mV | 76.2 mV |
| Temperature | 10.55 °C |

Calibration Point 2

| | |
|--------------|----------|
| pH of Buffer | 7.06 pH |
| pH mV | -93.1 mV |
| Temperature | 10.77 °C |

Calibration Point 3

| | |
|--------------|-----------|
| pH of Buffer | 10.14 pH |
| pH mV | -252.5 mV |
| Temperature | 10.89 °C |

Slope and Offset 1

| | |
|--------|--------------|
| Slope | -55.32 mV/pH |
| Offset | -89.8 mV |

Slope and Offset 2

| | |
|--------|--------------|
| Slope | -51.77 mV/pH |
| Offset | -90.0 mV |

ORP

| | |
|--------------|--------------|
| ORP Solution | ORP Standard |
| Offset | 71.5 mV |
| Temperature | 10.88 °C |

Location Properties

T1-1HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:51:27

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 8.221761 | 92.10469 | 140.704 | 36757.97 | 12.21243 | 43180.79 | 31.53222 | 28.06752 | 27.20499 | |
| ##### 8.219218 | 92.07533 | 140.6592 | 36756.15 | 12.21241 | 43178.67 | 31.53049 | 28.06614 | 27.20633 | |
| ##### 8.216675 | 92.04596 | 140.6145 | 36754.33 | 12.21239 | 43176.55 | 31.52877 | 28.06476 | 27.20768 | |
| ##### 8.188657 | 91.76146 | 140.1763 | 36784.05 | 12.22307 | 43201.11 | 31.54869 | 28.08072 | 27.1857 | |
| ##### 8.186681 | 91.74013 | 140.1436 | 36784.4 | 12.22354 | 43201.07 | 31.54866 | 28.08069 | 27.18544 | |
| ##### 8.184704 | 91.71879 | 140.1109 | 36784.75 | 12.22401 | 43201.02 | 31.54862 | 28.08066 | 27.18518 | |
| ##### 8.182728 | 91.69746 | 140.0783 | 36785.1 | 12.22448 | 43200.98 | 31.54858 | 28.08064 | 27.18492 | |
| ##### 8.159908 | 91.47021 | 139.7325 | 36821.85 | 12.23121 | 43237.61 | 31.57831 | 28.10444 | 27.15779 | |
| ##### 8.158302 | 91.45399 | 139.7078 | 36823.94 | 12.23171 | 43239.58 | 31.57992 | 28.10573 | 27.15625 | |
| ##### 8.156697 | 91.43777 | 139.683 | 36826.04 | 12.23221 | 43241.56 | 31.58152 | 28.10701 | 27.1547 | |
| ##### 8.140204 | 91.22976 | 139.3604 | 36745.56 | 12.23768 | 43141.77 | 31.50051 | 28.04215 | 27.21419 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.023859 | -0.06095 | 0.495887 | 7.559844 | -119.574 | 86.13451 | 1027.738 | 12.10975 | |
| 1.023857 | -0.06045 | 0.497038 | 7.559922 | -119.578 | 86.16199 | 1027.738 | 12.10991 | |
| 1.023856 | -0.05995 | 0.49819 | 7.559999 | -119.583 | 86.18948 | 1027.739 | 12.11006 | |
| 1.02387 | -0.06371 | 0.489524 | 7.560566 | -119.618 | 86.56452 | 1027.722 | 12.11 | |
| 1.023869 | -0.06369 | 0.489564 | 7.56062 | -119.621 | 86.59032 | 1027.721 | 12.11 | |
| 1.023869 | -0.06368 | 0.489603 | 7.560674 | -119.625 | 86.61611 | 1027.721 | 12.11 | |
| 1.023869 | -0.06366 | 0.489642 | 7.560728 | -119.628 | 86.64191 | 1027.721 | 12.11 | |
| 1.023891 | -0.08272 | 0.445673 | 7.561689 | -119.68 | 87.00282 | 1027.737 | 12.11865 | |
| 1.023892 | -0.08361 | 0.44363 | 7.561745 | -119.683 | 87.02663 | 1027.738 | 12.11903 | |
| 1.023893 | -0.08449 | 0.441588 | 7.5618 | -119.686 | 87.05044 | 1027.738 | 12.11941 | |
| 1.023829 | -0.06821 | 0.479138 | 7.562669 | -119.734 | 87.37173 | 1027.714 | 12.11959 | |

Location Properties

T1-2HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 08:01:48

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.546166 | 86.72131 | 132.3663 | 39199.19 | 12.84432 | 45404.84 | 33.344 | 29.51314 | 25.51074 | |
| ##### 7.535288 | 86.60738 | 132.1919 | 39202.73 | 12.84876 | 45404.47 | 33.34369 | 29.51291 | 25.50843 | |
| ##### 7.524411 | 86.49343 | 132.0174 | 39206.27 | 12.85321 | 45404.11 | 33.34338 | 29.51267 | 25.50612 | |
| ##### 7.419534 | 85.3022 | 130.1885 | 39154.19 | 12.93189 | 45265.06 | 33.22932 | 29.42229 | 25.54006 | |
| ##### 7.411674 | 85.21641 | 130.0569 | 39152.71 | 12.9369 | 45258.33 | 33.2238 | 29.41792 | 25.54102 | |
| ##### 7.403814 | 85.13062 | 129.9252 | 39151.24 | 12.94191 | 45251.6 | 33.21828 | 29.41354 | 25.54198 | |
| ##### 7.300854 | 84.0668 | 128.2946 | 39227.94 | 13.00737 | 45274.81 | 33.23703 | 29.42863 | 25.49205 | |
| ##### 7.294167 | 83.99578 | 128.1857 | 39230.57 | 13.0118 | 45273.43 | 33.23588 | 29.42773 | 25.49034 | |
| ##### 7.287478 | 83.92477 | 128.0768 | 39233.2 | 13.01622 | 45272.04 | 33.23473 | 29.42683 | 25.48863 | |
| ##### 7.280791 | 83.85376 | 127.9679 | 39235.82 | 13.02064 | 45270.66 | 33.23359 | 29.42593 | 25.48692 | |
| ##### 7.206857 | 83.09631 | 126.8018 | 39246.15 | 13.04527 | 45258.01 | 33.22313 | 29.41771 | 25.48021 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.025142 | -0.07763 | 0.457418 | 7.548974 | -119.291 | 86.47002 | 1027.506 | 12.17906 | |
| 1.025141 | -0.07777 | 0.457091 | 7.548903 | -119.289 | 86.4928 | 1027.507 | 12.17946 | |
| 1.02514 | -0.07791 | 0.456763 | 7.548832 | -119.286 | 86.51556 | 1027.509 | 12.17986 | |
| 1.025036 | -0.07832 | 0.455833 | 7.548074 | -119.291 | 86.82922 | 1027.465 | 12.17109 | |
| 1.02503 | -0.07829 | 0.455904 | 7.548018 | -119.291 | 86.85023 | 1027.464 | 12.17088 | |
| 1.025025 | -0.07825 | 0.455976 | 7.547963 | -119.29 | 86.87125 | 1027.463 | 12.17068 | |
| 1.025027 | -0.07158 | 0.471366 | 7.547431 | -119.273 | 87.14732 | 1027.47 | 12.17885 | |
| 1.025025 | -0.07129 | 0.472042 | 7.547392 | -119.273 | 87.16572 | 1027.47 | 12.17908 | |
| 1.025023 | -0.071 | 0.472718 | 7.547353 | -119.272 | 87.18411 | 1027.469 | 12.1793 | |
| 1.025022 | -0.0707 | 0.473393 | 7.547315 | -119.271 | 87.20251 | 1027.469 | 12.17952 | |
| 1.025009 | -0.0684 | 0.478716 | 7.547068 | -119.271 | 87.47727 | 1027.443 | 12.171 | |

Location Properties

T1-2HTS

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:56:25

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 8.747651 | 98.10844 | 149.8419 | 36741.88 | 12.29662 | 43070.49 | 31.54253 | 27.99582 | 278.6884 | |
| ##### 8.704507 | 98.02278 | 149.7097 | 37380.47 | 12.3043 | 43817.7 | 32.08982 | 28.4815 | 126.1896 | |
| ##### 8.661362 | 97.93712 | 149.5775 | 38019.06 | 12.31199 | 44564.91 | 32.6371 | 28.96719 | 0 | |
| ##### 8.49619 | 95.95551 | 146.5466 | 37792.65 | 12.32581 | 44283.63 | 32.42918 | 28.78436 | 26.46019 | |
| ##### 8.483662 | 95.81541 | 146.3322 | 37790.57 | 12.32745 | 44279.57 | 32.42587 | 28.78172 | 26.46163 | |
| ##### 8.471133 | 95.67531 | 146.1179 | 37788.5 | 12.32908 | 44275.51 | 32.42256 | 28.77908 | 26.46308 | |
| ##### 8.458605 | 95.53521 | 145.9035 | 37786.42 | 12.33072 | 44271.45 | 32.41925 | 28.77644 | 26.46453 | |
| ##### 8.358096 | 94.38645 | 144.1437 | 37722.97 | 12.34324 | 44184.73 | 32.34856 | 28.72008 | 26.50906 | |
| ##### 8.350164 | 94.29671 | 144.0063 | 37720.14 | 12.34408 | 44180.59 | 32.34518 | 28.71738 | 26.51105 | |
| ##### 8.342234 | 94.20698 | 143.8689 | 37717.32 | 12.34492 | 44176.45 | 32.3418 | 28.71469 | 26.51303 | |
| ##### 8.334302 | 94.11724 | 143.7316 | 37714.49 | 12.34576 | 44172.3 | 32.33842 | 28.712 | 26.51501 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.023852 | -0.06499 | 0.486582 | 7.567797 | -120.03 | 86.70358 | 1027.584 | 12.15 | |
| 1.024274 | -0.06519 | 0.486115 | 7.567778 | -120.033 | 86.73561 | 1027.583 | 12.15 | |
| 1.024696 | -0.06539 | 0.485648 | 7.567758 | -120.036 | 86.76765 | 1027.582 | 12.15 | |
| 1.024533 | -0.07883 | 0.45465 | 7.568428 | -120.069 | 87.19173 | 1027.564 | 12.15 | |
| 1.02453 | -0.07962 | 0.452836 | 7.568464 | -120.071 | 87.21977 | 1027.563 | 12.15 | |
| 1.024527 | -0.0804 | 0.451023 | 7.5685 | -120.073 | 87.24781 | 1027.561 | 12.15 | |
| 1.024524 | -0.08119 | 0.449209 | 7.568536 | -120.075 | 87.27585 | 1027.56 | 12.15 | |
| 1.024467 | -0.07289 | 0.468354 | 7.56872 | -120.092 | 87.6318 | 1027.535 | 12.15 | |
| 1.024464 | -0.07279 | 0.468589 | 7.568742 | -120.094 | 87.65616 | 1027.533 | 12.15 | |
| 1.024461 | -0.07268 | 0.468824 | 7.568764 | -120.095 | 87.68051 | 1027.531 | 12.15 | |
| 1.024459 | -0.07258 | 0.469058 | 7.568785 | -120.097 | 87.70486 | 1027.53 | 12.15 | |

Location Properties

T1-3HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 08:17:17

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.113561 | 82.04784 | 125.2536 | 39283.79 | 13.11751 | 45229.48 | 33.1995 | 29.39917 | 25.4558 | |
| ##### 7.106313 | 81.96778 | 125.1311 | 39283.01 | 13.12185 | 45224.27 | 33.19521 | 29.39577 | 25.4563 | |
| ##### 7.099066 | 81.88772 | 125.0085 | 39282.23 | 13.12619 | 45219.05 | 33.19092 | 29.39238 | 25.4568 | |
| ##### 7.047255 | 81.32716 | 124.15 | 39340.97 | 13.13442 | 45278.45 | 33.23949 | 29.43099 | 25.4188 | |
| ##### 7.042963 | 81.27982 | 124.0775 | 39343.13 | 13.13635 | 45279.02 | 33.23995 | 29.43136 | 25.4174 | |
| ##### 7.038671 | 81.23248 | 124.0051 | 39345.29 | 13.13828 | 45279.59 | 33.24041 | 29.43173 | 25.41601 | |
| ##### 7.03438 | 81.18513 | 123.9326 | 39347.46 | 13.14021 | 45280.16 | 33.24086 | 29.4321 | 25.41461 | |
| ##### 6.962854 | 80.46575 | 122.8253 | 39364.48 | 13.17211 | 45268 | 33.23077 | 29.4242 | 25.40362 | |
| ##### 6.958624 | 80.42237 | 122.7586 | 39366.33 | 13.17372 | 45268.52 | 33.23119 | 29.42454 | 25.40242 | |
| ##### 6.954393 | 80.379 | 122.6919 | 39368.18 | 13.17534 | 45269.04 | 33.23161 | 29.42488 | 25.40123 | |
| ##### 6.950162 | 80.33562 | 122.6253 | 39370.02 | 13.17695 | 45269.57 | 33.23203 | 29.42522 | 25.40003 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.024976 | -0.05636 | 0.506484 | 7.533452 | -118.581 | 88.5703 | 1027.907 | 12.32967 | |
| 1.024972 | -0.05551 | 0.508435 | 7.533375 | -118.578 | 88.58049 | 1027.908 | 12.33004 | |
| 1.024968 | -0.05467 | 0.510386 | 7.533298 | -118.575 | 88.59068 | 1027.909 | 12.3304 | |
| 1.025004 | -0.05328 | 0.513574 | 7.532783 | -118.562 | 88.73701 | 1027.892 | 12.33 | |
| 1.025004 | -0.05262 | 0.515103 | 7.532734 | -118.56 | 88.74638 | 1027.892 | 12.33 | |
| 1.025003 | -0.05196 | 0.516633 | 7.532686 | -118.559 | 88.75575 | 1027.891 | 12.33 | |
| 1.025003 | -0.0513 | 0.518162 | 7.532638 | -118.557 | 88.76512 | 1027.891 | 12.33 | |
| 1.024989 | -0.06034 | 0.497293 | 7.532115 | -118.544 | 88.8909 | 1027.882 | 12.33 | |
| 1.024989 | -0.06072 | 0.496433 | 7.532081 | -118.543 | 88.89934 | 1027.881 | 12.33 | |
| 1.024989 | -0.06109 | 0.495574 | 7.532047 | -118.542 | 88.90777 | 1027.88 | 12.33 | |
| 1.024989 | -0.06146 | 0.494714 | 7.532013 | -118.541 | 88.91621 | 1027.88 | 12.33 | |

Location Properties

T1-3HTS

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 08:12:35

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 8.566224 | 98.06674 | 149.7047 | 38451.98 | 12.92673 | 44454.31 | 32.63244 | 28.8953 | 226.8681 | |
| ##### 8.523359 | 97.92038 | 149.4801 | 39020.66 | 12.9386 | 45103.6 | 33.10812 | 29.31734 | 58.62241 | |
| ##### 8.216475 | 94.56924 | 144.351 | 39117.1 | 12.97383 | 45180.52 | 33.16002 | 29.36734 | 25.56431 | |
| ##### 8.194599 | 94.32361 | 143.9751 | 39112.9 | 12.9805 | 45168.93 | 33.15051 | 29.35981 | 25.56704 | |
| ##### 8.172723 | 94.07798 | 143.5991 | 39108.7 | 12.98717 | 45157.35 | 33.14101 | 29.35228 | 25.56977 | |
| ##### 8.150846 | 93.83235 | 143.2231 | 39104.5 | 12.99383 | 45145.76 | 33.1315 | 29.34475 | 25.57249 | |
| ##### 8.00201 | 92.02986 | 140.4786 | 38993.21 | 13.03089 | 44980.6 | 32.9963 | 29.23739 | 25.64552 | |
| ##### 7.989013 | 91.87886 | 140.2481 | 38988.09 | 13.03309 | 44972.5 | 32.98967 | 29.23212 | 25.64888 | |
| ##### 7.976016 | 91.72785 | 140.0177 | 38982.97 | 13.0353 | 44964.4 | 32.98304 | 29.22686 | 25.65224 | |
| ##### 7.878917 | 90.6328 | 138.3472 | 39000.59 | 13.04697 | 44973.16 | 32.99015 | 29.23256 | 25.64065 | |
| ##### 7.87131 | 90.54477 | 138.2129 | 38999.22 | 13.04826 | 44970.3 | 32.98781 | 29.2307 | 25.64154 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.024576 | -0.05912 | 0.50012 | 7.54336 | -119.036 | 81.31134 | 1027.71 | 12.25092 | |
| 1.024941 | -0.05846 | 0.50163 | 7.545537 | -119.152 | 81.16701 | 1027.71 | 12.25073 | |
| 1.024974 | -0.07518 | 0.463068 | 7.544726 | -119.127 | 81.7402 | 1027.683 | 12.25036 | |
| 1.024965 | -0.07571 | 0.461837 | 7.544643 | -119.124 | 81.77882 | 1027.682 | 12.25022 | |
| 1.024956 | -0.07625 | 0.460607 | 7.54456 | -119.121 | 81.81744 | 1027.68 | 12.25007 | |
| 1.024948 | -0.07678 | 0.459377 | 7.544477 | -119.117 | 81.85606 | 1027.679 | 12.24993 | |
| 1.024836 | -0.07309 | 0.467891 | 7.544112 | -119.103 | 82.3286 | 1027.724 | 12.25886 | |
| 1.02483 | -0.07331 | 0.467372 | 7.544068 | -119.101 | 82.36254 | 1027.726 | 12.25925 | |
| 1.024825 | -0.07354 | 0.466853 | 7.544025 | -119.099 | 82.39648 | 1027.727 | 12.25963 | |
| 1.024828 | -0.056 | 0.507306 | 7.543301 | -119.069 | 82.81281 | 1027.745 | 12.25966 | |
| 1.024826 | -0.0552 | 0.509148 | 7.543261 | -119.067 | 82.8409 | 1027.746 | 12.25983 | |

Location Properties

T3-1HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:08:11

Time Offset = -05:00:00

Duration = 00:00:18

Readings = 10

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.925611 | 88.28224 | 134.9799 | 37221.53 | 11.7086 | 44225.3 | 32.38146 | 28.74645 | 26.86616 | |
| ##### 7.921393 | 88.23582 | 134.9082 | 37215.37 | 11.71117 | 44215.39 | 32.37339 | 28.74001 | 26.87059 | |
| ##### 7.862292 | 87.66597 | 134.0295 | 37170.13 | 11.74543 | 44127.38 | 32.30177 | 28.6828 | 26.90335 | |
| ##### 7.857997 | 87.62228 | 133.962 | 37165.68 | 11.74797 | 44119.54 | 32.29539 | 28.6777 | 26.90656 | |
| ##### 7.853702 | 87.57858 | 133.8946 | 37161.22 | 11.75051 | 44111.7 | 32.28901 | 28.67261 | 26.90977 | |
| ##### 7.849407 | 87.53488 | 133.8272 | 37156.77 | 11.75305 | 44103.86 | 32.28263 | 28.66751 | 26.91299 | |
| ##### 7.792222 | 87.01843 | 133.0317 | 37306.3 | 11.83067 | 44203.55 | 32.36392 | 28.73231 | 26.80517 | |
| ##### 7.7883 | 86.98183 | 132.9753 | 37311.75 | 11.83494 | 44205.74 | 32.36571 | 28.73373 | 26.80125 | |
| ##### 7.784377 | 86.94522 | 132.9188 | 37317.2 | 11.83921 | 44207.93 | 32.3675 | 28.73516 | 26.79732 | |
| ##### 7.745291 | 86.48618 | 132.2199 | 37223.1 | 11.86233 | 44073.42 | 32.25798 | 28.64772 | 26.86507 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.024611 | -0.11 | 0.382749 | 6.800027 | -79.9114 | 208.7307 | 1028.138 | 12.01912 | |
| 1.024604 | -0.10876 | 0.385601 | 6.801308 | -79.9787 | 209.1586 | 1028.135 | 12.01794 | |
| 1.024542 | -0.07488 | 0.463768 | 6.815801 | -80.7399 | 209.3036 | 1028.141 | 12.03766 | |
| 1.024537 | -0.07288 | 0.468365 | 6.816952 | -80.8004 | 209.48 | 1028.14 | 12.03807 | |
| 1.024531 | -0.07089 | 0.472962 | 6.818103 | -80.8608 | 209.6564 | 1028.139 | 12.03847 | |
| 1.024526 | -0.0689 | 0.47756 | 6.819254 | -80.9213 | 209.8328 | 1028.138 | 12.03887 | |
| 1.024575 | -0.06489 | 0.486794 | 6.834442 | -81.7289 | 210.1618 | 1028.131 | 12.03948 | |
| 1.024575 | -0.064 | 0.48885 | 6.835471 | -81.7834 | 210.2054 | 1028.13 | 12.03981 | |
| 1.024576 | -0.06311 | 0.490906 | 6.8365 | -81.8379 | 210.249 | 1028.13 | 12.04013 | |
| 1.024487 | -0.07273 | 0.468726 | 6.851361 | -82.6162 | 210.5807 | 1028.173 | 12.04 | |

Location Properties

T3-2HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:18:49

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Co | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.504777 | 85.21571 | 130.215 | 38754.1 | 12.33262 | 45403.26 | 33.34361 | 29.51212 | 25.80375 | |
| ##### 7.49137 | 85.07014 | 129.9921 | 38759.36 | 12.33707 | 45404.91 | 33.34496 | 29.51319 | 25.80024 | |
| ##### 7.477962 | 84.92459 | 129.7692 | 38764.62 | 12.34152 | 45406.55 | 33.3463 | 29.51426 | 25.79672 | |
| ##### 7.324351 | 83.35774 | 127.3588 | 38751.62 | 12.3871 | 45345.09 | 33.29597 | 29.4743 | 25.80538 | |
| ##### 7.313748 | 83.24723 | 127.1891 | 38753.11 | 12.38985 | 45344.05 | 33.29512 | 29.47363 | 25.80438 | |
| ##### 7.303146 | 83.13671 | 127.0194 | 38754.61 | 12.39259 | 45343.02 | 33.29428 | 29.47296 | 25.80338 | |
| ##### 7.292544 | 83.0262 | 126.8496 | 38756.1 | 12.39533 | 45341.99 | 33.29343 | 29.47229 | 25.80239 | |
| ##### 7.176921 | 81.73247 | 124.8719 | 38745.43 | 12.51559 | 45208.09 | 33.18374 | 29.38526 | 25.80949 | |
| ##### 7.168672 | 81.64314 | 124.735 | 38744.84 | 12.52179 | 45201.13 | 33.17804 | 29.38074 | 25.80989 | |
| ##### 7.160421 | 81.55382 | 124.5982 | 38744.25 | 12.52798 | 45194.17 | 33.17234 | 29.37621 | 25.81028 | |
| ##### 7.075302 | 80.67749 | 123.2548 | 38835.52 | 12.56955 | 45258.7 | 33.22506 | 29.41816 | 25.74965 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2: | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|-------------|-----------|----------|-----------|-----------|--------|
| 1.025241 | -0.07385 | 0.466138 | 7.300544 | -106.147 | 159.9198 | 1028.122 | 12.07019 | |
| 1.025241 | -0.07431 | 0.465085 | 7.300819 | -106.163 | 159.8712 | 1028.122 | 12.07003 | |
| 1.025241 | -0.07476 | 0.464031 | 7.301095 | -106.179 | 159.8226 | 1028.121 | 12.06986 | |
| 1.025193 | -0.06318 | 0.490745 | 7.304821 | -106.398 | 159.0647 | 1028.103 | 12.07862 | |
| 1.025192 | -0.06274 | 0.491758 | 7.305075 | -106.413 | 159.0169 | 1028.102 | 12.079 | |
| 1.025191 | -0.0623 | 0.49277 | 7.305329 | -106.428 | 158.9691 | 1028.101 | 12.07939 | |
| 1.02519 | -0.06186 | 0.493782 | 7.305583 | -106.443 | 158.9212 | 1028.099 | 12.07977 | |
| 1.025082 | -0.05649 | 0.506191 | 7.309306 | -106.67 | 158.2008 | 1028.135 | 12.08851 | |
| 1.025076 | -0.05604 | 0.507221 | 7.309545 | -106.684 | 158.1539 | 1028.136 | 12.08906 | |
| 1.02507 | -0.05559 | 0.508252 | 7.309784 | -106.699 | 158.1071 | 1028.138 | 12.0896 | |
| 1.025103 | -0.05863 | 0.501245 | 7.314265 | -106.945 | 157.4648 | 1028.138 | 12.08112 | |

Location Properties

T3-2HTS

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:12:35

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.529408 | 84.84463 | 129.6468 | 37571.06 | 12.29808 | 44051.3 | 32.23991 | 28.63334 | 26.61623 | |
| ##### 7.524675 | 84.79326 | 129.5682 | 37570.75 | 12.2997 | 44049.34 | 32.23832 | 28.63207 | 26.61645 | |
| ##### 7.519943 | 84.74188 | 129.4897 | 37570.45 | 12.30132 | 44047.38 | 32.23672 | 28.6308 | 26.61666 | |
| ##### 7.487342 | 84.35198 | 128.888 | 37515.61 | 12.30199 | 43982.43 | 32.18383 | 28.58858 | 26.65558 | |
| ##### 7.483965 | 84.31368 | 128.8292 | 37512.98 | 12.30267 | 43978.68 | 32.18077 | 28.58614 | 26.65745 | |
| ##### 7.480588 | 84.27538 | 128.7704 | 37510.34 | 12.30334 | 43974.93 | 32.17772 | 28.5837 | 26.65932 | |
| ##### 7.477212 | 84.23707 | 128.7115 | 37507.71 | 12.30402 | 43971.17 | 32.17466 | 28.58126 | 26.66119 | |
| ##### 7.430978 | 83.75586 | 127.9796 | 37569.83 | 12.31304 | 44035.11 | 32.22671 | 28.62282 | 26.61711 | |
| ##### 7.427977 | 83.72349 | 127.9301 | 37571.48 | 12.31356 | 44036.53 | 32.22787 | 28.62374 | 26.61594 | |
| ##### 7.424976 | 83.69112 | 127.8807 | 37573.14 | 12.31407 | 44037.96 | 32.22903 | 28.62467 | 26.61477 | |
| ##### 7.421975 | 83.65874 | 127.8313 | 37574.79 | 12.31459 | 44039.39 | 32.23019 | 28.6256 | 26.61359 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2: | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|-------------|-----------|----------|-----------|-----------|--------|
| 1.024391 | -0.08681 | 0.436241 | 7.132682 | -97.3788 | 199.8482 | 1028.079 | 12.00984 | |
| 1.02439 | -0.08714 | 0.435469 | 7.132896 | -97.3901 | 200.298 | 1028.08 | 12.01045 | |
| 1.024388 | -0.08748 | 0.434697 | 7.133111 | -97.4013 | 200.7477 | 1028.082 | 12.01106 | |
| 1.024347 | -0.06606 | 0.484107 | 7.137157 | -97.6119 | 200.372 | 1028.036 | 12.00115 | |
| 1.024344 | -0.06521 | 0.486062 | 7.137428 | -97.626 | 200.5338 | 1028.035 | 12.00094 | |
| 1.024342 | -0.06436 | 0.488017 | 7.137699 | -97.6401 | 200.6957 | 1028.033 | 12.00073 | |
| 1.024339 | -0.06352 | 0.489972 | 7.13797 | -97.6543 | 200.8575 | 1028.031 | 12.00052 | |
| 1.024378 | -0.06915 | 0.476986 | 7.142455 | -97.8958 | 200.6427 | 1028.066 | 12.00897 | |
| 1.024379 | -0.06899 | 0.477338 | 7.142748 | -97.9115 | 200.6546 | 1028.066 | 12.00919 | |
| 1.02438 | -0.06884 | 0.477689 | 7.143041 | -97.9271 | 200.6665 | 1028.067 | 12.00941 | |
| 1.024381 | -0.06869 | 0.478041 | 7.143333 | -97.9427 | 200.6784 | 1028.068 | 12.00963 | |

Location Properties

T3-3HT

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:38:28

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 7.356878 | 83.84686 | 128.1037 | 39094.39 | 12.42521 | 45707.3 | 33.59252 | 29.70975 | 25.57912 | |
| ##### 7.350317 | 83.77657 | 127.996 | 39094.29 | 12.43135 | 45700.91 | 33.58728 | 29.70559 | 25.57918 | |
| ##### 7.343757 | 83.70629 | 127.8884 | 39094.2 | 12.43749 | 45694.52 | 33.58204 | 29.70144 | 25.57924 | |
| ##### 7.267574 | 82.94991 | 126.7272 | 39174.84 | 12.49637 | 45728.64 | 33.60994 | 29.72362 | 25.52661 | |
| ##### 7.262557 | 82.89781 | 126.6474 | 39177.98 | 12.50124 | 45727.34 | 33.60887 | 29.72278 | 25.52456 | |
| ##### 7.257539 | 82.84572 | 126.5676 | 39181.12 | 12.5061 | 45726.04 | 33.6078 | 29.72193 | 25.52251 | |
| ##### 7.252521 | 82.79362 | 126.4879 | 39184.26 | 12.51096 | 45724.74 | 33.60673 | 29.72108 | 25.52046 | |
| ##### 7.185129 | 82.13304 | 125.4702 | 39206.79 | 12.5287 | 45732.96 | 33.61344 | 29.72643 | 25.5058 | |
| ##### 7.18059 | 82.08831 | 125.4014 | 39209.29 | 12.53066 | 45733.89 | 33.6142 | 29.72703 | 25.50417 | |
| ##### 7.176052 | 82.04357 | 125.3326 | 39211.79 | 12.53262 | 45734.81 | 33.61495 | 29.72762 | 25.50253 | |
| ##### 7.171514 | 81.99884 | 125.2637 | 39214.29 | 12.53458 | 45735.73 | 33.6157 | 29.72822 | 25.5009 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.025416 | -0.08059 | 0.450593 | 7.451801 | -114.065 | 110.1312 | 1028.062 | 11.96901 | |
| 1.025411 | -0.08054 | 0.450702 | 7.451897 | -114.072 | 110.133 | 1028.063 | 11.96923 | |
| 1.025406 | -0.08049 | 0.450811 | 7.451993 | -114.08 | 110.1348 | 1028.065 | 11.96945 | |
| 1.025416 | -0.07312 | 0.467816 | 7.454253 | -114.205 | 110.1074 | 1028.075 | 11.96964 | |
| 1.025414 | -0.07279 | 0.468575 | 7.454379 | -114.212 | 110.1068 | 1028.077 | 11.96981 | |
| 1.025412 | -0.07246 | 0.469334 | 7.454504 | -114.22 | 110.1061 | 1028.078 | 11.96997 | |
| 1.02541 | -0.07213 | 0.470093 | 7.45463 | -114.228 | 110.1055 | 1028.08 | 11.97014 | |
| 1.025412 | -0.07024 | 0.474473 | 7.457092 | -114.372 | 110.1346 | 1028.071 | 11.97 | |
| 1.025412 | -0.07001 | 0.474985 | 7.457246 | -114.381 | 110.1354 | 1028.07 | 11.97 | |
| 1.025413 | -0.06979 | 0.475498 | 7.457401 | -114.39 | 110.1363 | 1028.07 | 11.97 | |
| 1.025413 | -0.06957 | 0.47601 | 7.457555 | -114.399 | 110.1371 | 1028.07 | 11.97 | |

Location Properties

T3-3HTS

Location Name = Device Location

Report Properties

Start Time = 2022-12-20 07:31:30

Time Offset = -05:00:00

Duration = 00:00:20

Readings = 11

Instrument Properties

Device Model = Aqua TROLL 400

Device SN = 789301

Instrument Properties

Device Model = PowerPack

Device SN = 793927

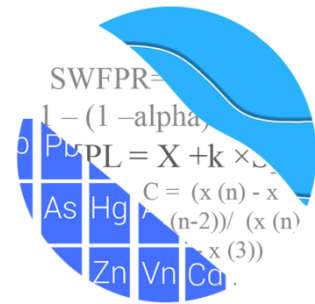
| Date Time | RDO Conc | RDO Satur | Oxygen Pa | Actual Con | Temperatu | Specific Cc | Salinity (PS | Total Dissc | Resistivity |
|----------------|----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|-------------|
| ##### 8.455051 | 95.69411 | 146.2265 | 38062 | 12.39561 | 44529.65 | 32.62971 | 28.94427 | 26.27293 | |
| ##### 8.455051 | 95.69411 | 146.2265 | 38062 | 12.39561 | 44529.65 | 32.62971 | 28.94427 | 26.27293 | |
| ##### 8.242694 | 93.27145 | 142.5218 | 38021.93 | 12.39669 | 44481.7 | 32.5906 | 28.91311 | 26.30062 | |
| ##### 8.228765 | 93.11255 | 142.2788 | 38019.3 | 12.39676 | 44478.56 | 32.58803 | 28.91106 | 26.30243 | |
| ##### 8.214836 | 92.95364 | 142.0358 | 38016.67 | 12.39683 | 44475.41 | 32.58546 | 28.90902 | 26.30425 | |
| ##### 8.200908 | 92.79474 | 141.7928 | 38014.04 | 12.3969 | 44472.27 | 32.5829 | 28.90697 | 26.30606 | |
| ##### 8.100548 | 91.66614 | 140.0658 | 37962.36 | 12.41118 | 44397.65 | 32.52202 | 28.85847 | 26.34189 | |
| ##### 8.090442 | 91.55157 | 139.8906 | 37959 | 12.41184 | 44393.06 | 32.51828 | 28.85549 | 26.34422 | |
| ##### 8.080337 | 91.43701 | 139.7153 | 37955.64 | 12.4125 | 44388.47 | 32.51453 | 28.85251 | 26.34655 | |
| ##### 8.07023 | 91.32245 | 139.5401 | 37952.28 | 12.41317 | 44383.89 | 32.51079 | 28.84953 | 26.34887 | |
| ##### 7.973125 | 90.24139 | 137.8885 | 37949.83 | 12.43806 | 44356.36 | 32.48831 | 28.83164 | 26.35058 | |

| Density (g/ | Pressure (f | Depth (ft) | pH (pH) (2 | pH mV (m\ | ORP (mV) | Barometri | Temperatu | Marked |
|-------------|-------------|------------|------------|-----------|----------|-----------|-----------|--------|
| 1.024675 | -0.07449 | 0.46465 | 7.388798 | -110.745 | 136.6895 | 1028.18 | 11.89 | |
| 1.024675 | -0.07449 | 0.46465 | 7.388798 | -110.745 | 136.6895 | 1028.18 | 11.89 | |
| 1.024644 | -0.09427 | 0.419044 | 7.388866 | -110.755 | 140.6718 | 1028.161 | 11.88059 | |
| 1.024642 | -0.09556 | 0.416053 | 7.38887 | -110.756 | 140.933 | 1028.16 | 11.87998 | |
| 1.02464 | -0.09686 | 0.413061 | 7.388875 | -110.756 | 141.1942 | 1028.158 | 11.87936 | |
| 1.024638 | -0.09816 | 0.41007 | 7.388879 | -110.757 | 141.4554 | 1028.157 | 11.87874 | |
| 1.024588 | -0.07937 | 0.453401 | 7.390895 | -110.864 | 141.5474 | 1028.16 | 11.88022 | |
| 1.024585 | -0.07906 | 0.454109 | 7.390987 | -110.869 | 141.6575 | 1028.16 | 11.88003 | |
| 1.024582 | -0.07876 | 0.454817 | 7.391078 | -110.874 | 141.7676 | 1028.159 | 11.87984 | |
| 1.024579 | -0.07845 | 0.455525 | 7.391169 | -110.879 | 141.8777 | 1028.159 | 11.87966 | |
| 1.024557 | -0.06922 | 0.476826 | 7.392762 | -110.968 | 141.8666 | 1028.177 | 11.88 | |

APPENDIX D

STATISTICAL ANALYSES

GROUNDWATER STATS CONSULTING



February 28, 2023

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 2022 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 2022 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

Note that upgradient wells MCM-18, MCM-19, and MCM-20 were installed late in 2019. Assessment well DPZ-2 is evaluated with confidence intervals for Appendix IV constituents when four or more samples are available. A minimum of 8 samples have 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 Andrew Collins, Project Manager for Groundwater Stats Consulting.

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 with 100% non-detects follow this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. However, varying reporting limits were identified for antimony, cobalt, cadmium, chromium, fluoride, and lead. Therefore, historical reporting limits were substituted for all non-detects for these constituents to maintain more conservative limits. Note that the reporting limit for cobalt decreased from 0.02 mg/L to 0.0025 mg/L and the reporting limit for lithium decreased from 0.05 mg/L to 0.025 mg/L during this event.

Note that Resolute Environmental & Water Resources Consulting had the September 2022 lithium observations at MCM-06 and MCM-20 re-analyzed with a lower detection limit and the re-analyzed values are evaluated in this report.

Some constituents exist in higher concentrations in upgradient wells compared to those reported in one or more downgradient wells which is reflective of natural 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 natural 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.

As a result of the previous background screening, the following non-detect values were flagged 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, a high value for combined radium 226 + 228 in upgradient well MCM-20 was flagged as an outlier as well as a high value for fluoride in downgradient well MCM-06. This step results in construction of background limits that are conservative from a regulatory perspective. A summary of flagged outliers follows this report (Figure C).

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 Environmental Protection Division 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 in background, 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. 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 careful screening for any new outliers. While this was not required for this report, 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 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. The most recent value for fluoride at upgradient well MCM-20 (4.3 mg/L) was flagged in order

to maintain statistical limits that are more conservative (i.e., lower) from a regulatory perspective. 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).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 2022 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-17
- Calcium: MCM-07
- pH: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

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 (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 natural 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:

- Calcium: MCM-07
- pH: MCM-18 (upgradient)

Decreasing:

- Calcium: MCM-02, MCM-18, and MCM-20 (all upgradient)
- pH: MCM-07, MCM14, and MCM-20 (upgradient)

Statistical Analysis of Appendix IV Parameters – September 2022

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. 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. The most recent values for cadmium at upgradient well MCM-19 (0.0083 mg/L) and fluoride at upgradient well MCM-20 (4.3 mg/L) were flagged in order to maintain more conservative (i.e., lower) limits. A summary of all flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used 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 using all available data through September 2022. Note that confidence intervals require a minimum of 4 samples and, in some cases, assessment well DPZ-2 had insufficient samples at this time.

The Sanitas software was used to calculate both the tolerance limits and the confidence intervals. Confidence intervals were compared to the GWPS prepared as described above (Figure H). 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. A summary of the confidence intervals follows this letter and no exceedances were identified.

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 and MCM-06

Trend Test Evaluation – Appendix IV

The Sen's Slope/Mann Kendall trend test was conducted to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). 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 trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A

summary of the Appendix IV trend test results follows this letter and no statistically significant trends were identified.

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,

Handwritten signature of Abdul Diane in black ink.

Abdul Diane
Groundwater Analyst

Handwritten signature of Andrew T. Collins in black ink.

Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 12/8/2022 4:24 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Antimony (mg/L)
DPZ-02, MCM-04, MCM-05, MCM-07, MCM-12

Beryllium (mg/L)
DPZ-02, MCM-06

Cadmium (mg/L)
DPZ-02, MCM-05, MCM-06, MCM-12, MCM-14

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)
DPZ-02, MCM-12, MCM-14

Selenium (mg/L)
DPZ-02

Thallium (mg/L)
DPZ-02, MCM-04, MCM-05, MCM-07, MCM-12, MCM-14

Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:15 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-17 | 1.3 | n/a | 9/21/2022 | 1.8 | Yes | 122 | n/a | n/a | 8.197 | n/a | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-07 | 169 | n/a | 9/21/2022 | 190 | Yes | 123 | n/a | n/a | 0.813 | n/a | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-05 | 5.81 | 3.36 | 9/21/2022 | 6.93 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-06 | 5.81 | 3.36 | 9/20/2022 | 7.29 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-07 | 5.81 | 3.36 | 9/21/2022 | 6.27 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-12 | 5.81 | 3.36 | 9/21/2022 | 6.3 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-14 | 5.81 | 3.36 | 9/21/2022 | 6.61 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-17 | 5.81 | 3.36 | 9/21/2022 | 6.72 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |

Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:15 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 | 9/21/2022 | 0.19J | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-05 | 1.3 | n/a | 9/21/2022 | 0.61 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-06 | 1.3 | n/a | 9/20/2022 | 1.1 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-07 | 1.3 | n/a | 9/21/2022 | 1.3 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-12 | 1.3 | n/a | 9/21/2022 | 1.3 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-14 | 1.3 | n/a | 9/21/2022 | 1 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-17 | 1.3 | n/a | 9/21/2022 | 1.8 | Yes | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-04 | 169 | n/a | 9/21/2022 | 7.8 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-05 | 169 | n/a | 9/21/2022 | 28 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-06 | 169 | n/a | 9/20/2022 | 47 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-07 | 169 | n/a | 9/21/2022 | 190 | Yes | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-12 | 169 | n/a | 9/21/2022 | 4.7 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-14 | 169 | n/a | 9/21/2022 | 74 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-17 | 169 | n/a | 9/21/2022 | 110 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-04 | 8130 | n/a | 9/21/2022 | 47 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-05 | 8130 | n/a | 9/21/2022 | 1100 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-06 | 8130 | n/a | 9/20/2022 | 2800 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-07 | 8130 | n/a | 9/21/2022 | 6400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-12 | 8130 | n/a | 9/21/2022 | 400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-14 | 8130 | n/a | 9/21/2022 | 3300 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-17 | 8130 | n/a | 9/21/2022 | 3300 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-04 | 1.5 | n/a | 9/21/2022 | 0.1ND | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-05 | 1.5 | n/a | 9/21/2022 | 0.48 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-06 | 1.5 | n/a | 9/20/2022 | 1.1J | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-07 | 1.5 | n/a | 9/21/2022 | 0.18 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-12 | 1.5 | n/a | 9/21/2022 | 1.3 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-14 | 1.5 | n/a | 9/21/2022 | 0.12 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-17 | 1.5 | n/a | 9/21/2022 | 0.78 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-04 | 5.81 | 3.36 | 9/21/2022 | 5.34 | No | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-05 | 5.81 | 3.36 | 9/21/2022 | 6.93 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-06 | 5.81 | 3.36 | 9/20/2022 | 7.29 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-07 | 5.81 | 3.36 | 9/21/2022 | 6.27 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-12 | 5.81 | 3.36 | 9/21/2022 | 6.3 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-14 | 5.81 | 3.36 | 9/21/2022 | 6.61 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-17 | 5.81 | 3.36 | 9/21/2022 | 6.72 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-04 | 1140 | n/a | 9/21/2022 | 52 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-05 | 1140 | n/a | 9/21/2022 | 100 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-06 | 1140 | n/a | 9/20/2022 | 320 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-07 | 1140 | n/a | 9/21/2022 | 660 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-12 | 1140 | n/a | 9/21/2022 | 0.5ND | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-14 | 1140 | n/a | 9/21/2022 | 270 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-17 | 1140 | n/a | 9/21/2022 | 330 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-04 | 14600 | n/a | 9/21/2022 | 180 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-05 | 14600 | n/a | 9/21/2022 | 2100 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-06 | 14600 | n/a | 9/20/2022 | 3900 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-07 | 14600 | n/a | 9/21/2022 | 9400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-12 | 14600 | n/a | 9/21/2022 | 1300 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-14 | 14600 | n/a | 9/21/2022 | 7400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-17 | 14600 | n/a | 9/21/2022 | 6200 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:17 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | MCM-02 (bg) | -0.203 | -59 | -58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-07 | 22.69 | 65 | 63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-18 (bg) | -12.22 | -69 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-20 (bg) | -34.13 | -65 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-07 | -0.05609 | -74 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-14 | -0.1164 | -118 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-18 (bg) | 0.09133 | 51 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-20 (bg) | -0.0637 | -49 | -43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |

Trend Tests - Prediction Limit Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:17 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|--------------------|-----------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | MCM-01 (bg) | 0.004651 | 42 | 58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-02 (bg) | -0.01071 | -19 | -58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-11 (bg) | 0.00389 | 26 | 58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-15 (bg) | 0.007093 | 42 | 58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-16 (bg) | -0.004349 | -25 | -58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-17 | -0.04944 | -27 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-18 (bg) | -0.01812 | -39 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-19 (bg) | 0.007503 | 3 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-20 (bg) | -0.01501 | -13 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-01 (bg) | -0.2923 | -18 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-02 (bg) | -0.203 | -59 | -58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-07 | 22.69 | 65 | 63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-11 (bg) | -1.082 | -32 | -58 | No | 16 | 6.25 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-15 (bg) | 0 | 2 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-16 (bg) | 0.02199 | 7 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-18 (bg) | -12.22 | -69 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-19 (bg) | -30.04 | -42 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-20 (bg) | -34.13 | -65 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-01 (bg) | -0.004468 | -4 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-02 (bg) | 0.02274 | 65 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-05 | -0.0466 | -43 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-06 | -0.05477 | -28 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-07 | -0.05609 | -74 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-11 (bg) | -0.04429 | -60 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-12 | -0.0342 | -51 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-14 | -0.1164 | -118 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-15 (bg) | -0.04201 | -34 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-16 (bg) | -0.001213 | -3 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-17 | -0.09481 | -64 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-18 (bg) | 0.09133 | 51 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-19 (bg) | 0 | 2 | 43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-20 (bg) | -0.0637 | -49 | -43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limit Summary Table

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 1:51 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig. Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------------|-------------|----------------|------------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L) | n/a | 0.003 | n/a | n/a | n/a | n/a 107 | n/a | n/a | 95.33 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.032 | n/a | n/a | n/a | n/a 126 | n/a | n/a | 14.29 | n/a | n/a | 0.00156 | NP Inter(normality) |
| Barium (mg/L) | n/a | 0.22 | n/a | n/a | n/a | n/a 123 | n/a | n/a | 0 | n/a | n/a | 0.00182 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.021 | n/a | n/a | n/a | n/a 122 | n/a | n/a | 27.05 | n/a | n/a | 0.001915 | NP Inter(normality) |
| Cadmium (mg/L) | n/a | 0.0043 | n/a | n/a | n/a | n/a 100 | n/a | n/a | 92 | n/a | n/a | 0.005921 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.011 | n/a | n/a | n/a | n/a 107 | n/a | n/a | 50.47 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.036 | n/a | n/a | n/a | n/a 122 | n/a | n/a | 72.95 | n/a | n/a | 0.001915 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 55.8 | n/a | n/a | n/a | n/a 121 | n/a | n/a | 0 | n/a | n/a | 0.002016 | NP Inter(normality) |
| Fluoride (mg/L) | n/a | 1.5 | n/a | n/a | n/a | n/a 126 | n/a | n/a | 50 | n/a | n/a | 0.00156 | NP Inter(normality) |
| Lead (mg/L) | n/a | 0.005 | n/a | n/a | n/a | n/a 122 | n/a | n/a | 83.61 | n/a | n/a | 0.001915 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.029 | n/a | n/a | n/a | n/a 119 | n/a | n/a | 55.46 | n/a | n/a | 0.002234 | NP Inter(NDs) |
| Mercury (mg/L) | n/a | 0.0007 | n/a | n/a | n/a | n/a 101 | n/a | n/a | 95.05 | n/a | n/a | 0.005625 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.01 | n/a | n/a | n/a | n/a 106 | n/a | n/a | 90.57 | n/a | n/a | 0.004352 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.15 | n/a | n/a | n/a | n/a 123 | n/a | n/a | 61.79 | n/a | n/a | 0.00182 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | n/a | n/a | n/a | n/a 106 | n/a | n/a | 92.45 | n/a | n/a | 0.004352 | 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 | | 55.8 | 55.8 |
| Fluoride, Total (mg/L) | 4 | | 1.5 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.029 | 0.04 |
| 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 | | 0.15 | 0.15 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 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 Intervals - Significant Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:00 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|----------------|--------|------------|------------|------------|------|----|---------|-----------|-------|---------|-----------|-------|--------|
| Arsenic (mg/L) | MCM-06 | 0.419 | 0.2642 | 0.032 | Yes | 20 | 0.3416 | 0.1364 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | DPZ-02 | 0.09839 | 0.06881 | 0.04 | Yes | 7 | 0.07907 | 0.02995 | 14.29 | None | x^4 | 0.01 | Param. |
| Lithium (mg/L) | MCM-06 | 0.09647 | 0.0557 | 0.04 | Yes | 17 | 0.07608 | 0.03253 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:00 PM

| 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 | 15 | 0.002719 | 0.0007228 | 80 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MCM-14 | 0.003 | 0.0004 | 0.006 | No | 14 | 0.002814 | 0.0006949 | 92.86 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MCM-17 | 0.003 | 0.00078 | 0.006 | No | 14 | 0.002841 | 0.0005933 | 92.86 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | DPZ-02 | 0.1 | 0.015 | 0.032 | No | 6 | 0.03267 | 0.0331 | 16.67 | None | No | 0.0155 | NP (normality) |
| Arsenic (mg/L) | MCM-04 | 0.007099 | 0.002848 | 0.032 | No | 17 | 0.005459 | 0.004106 | 0 | None | x^(1/3) | 0.01 | Param. |
| Arsenic (mg/L) | MCM-05 | 0.01548 | 0.004029 | 0.032 | No | 19 | 0.01484 | 0.01165 | 15.79 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | MCM-06 | 0.419 | 0.2642 | 0.032 | Yes | 20 | 0.3416 | 0.1364 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | MCM-07 | 0.01945 | 0.01054 | 0.032 | No | 19 | 0.01559 | 0.007958 | 0 | None | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | MCM-12 | 0.0063 | 0.001 | 0.032 | No | 16 | 0.004331 | 0.002576 | 56.25 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MCM-14 | 0.0067 | 0.0014 | 0.032 | No | 16 | 0.004863 | 0.002306 | 56.25 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MCM-17 | 0.0063 | 0.0018 | 0.032 | No | 17 | 0.004518 | 0.002169 | 47.06 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | DPZ-02 | 0.09686 | 0.05994 | 2 | No | 5 | 0.0784 | 0.01101 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-04 | 0.07989 | 0.03217 | 2 | No | 16 | 0.06769 | 0.07126 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | MCM-05 | 0.04117 | 0.01055 | 2 | No | 17 | 0.04808 | 0.1054 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | MCM-06 | 0.1371 | 0.06635 | 2 | No | 17 | 0.1017 | 0.05647 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-07 | 0.2 | 0.1 | 2 | No | 16 | 0.1589 | 0.09263 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MCM-12 | 0.1257 | 0.09678 | 2 | No | 16 | 0.1113 | 0.02224 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-14 | 0.1267 | 0.05881 | 2 | No | 16 | 0.09276 | 0.05218 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-17 | 0.1326 | 0.0663 | 2 | No | 16 | 0.09943 | 0.05093 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | MCM-04 | 0.0025 | 0.00021 | 0.021 | No | 16 | 0.001129 | 0.001106 | 37.5 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | MCM-05 | 0.0025 | 0.000054 | 0.021 | No | 17 | 0.002356 | 0.0005932 | 94.12 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MCM-07 | 0.0025 | 0.00012 | 0.021 | No | 16 | 0.002048 | 0.0009713 | 81.25 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MCM-12 | 0.001226 | 0.0005293 | 0.021 | No | 16 | 0.0009425 | 0.0006676 | 12.5 | None | x^(1/3) | 0.01 | Param. |
| Beryllium (mg/L) | MCM-14 | 0.0025 | 0.0001 | 0.021 | No | 16 | 0.001753 | 0.001145 | 68.75 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MCM-17 | 0.002 | 0.0002 | 0.021 | No | 16 | 0.0009081 | 0.0008755 | 37.5 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | MCM-04 | 0.0025 | 0.00043 | 0.005 | No | 13 | 0.002341 | 0.0005741 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MCM-07 | 0.0025 | 0.0002 | 0.005 | No | 13 | 0.002323 | 0.0006379 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MCM-17 | 0.0025 | 0.000093 | 0.005 | No | 13 | 0.002315 | 0.0006676 | 92.31 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MCM-04 | 0.01 | 0.00085 | 0.1 | No | 14 | 0.005025 | 0.004479 | 42.86 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-05 | 0.01 | 0.0007 | 0.1 | No | 14 | 0.005503 | 0.004676 | 50 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-06 | 0.01 | 0.001 | 0.1 | No | 15 | 0.00701 | 0.00438 | 66.67 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MCM-07 | 0.01 | 0.002 | 0.1 | No | 14 | 0.005064 | 0.003825 | 35.71 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-12 | 0.01 | 0.005 | 0.1 | No | 14 | 0.007221 | 0.002319 | 35.71 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-14 | 0.01 | 0.0015 | 0.1 | No | 14 | 0.005198 | 0.00434 | 42.86 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-17 | 0.01225 | 0.007354 | 0.1 | No | 14 | 0.01063 | 0.003069 | 28.57 | Kaplan-Meier | No | 0.01 | Param. |
| Cobalt (mg/L) | MCM-04 | 0.0063 | 0.0025 | 0.036 | No | 17 | 0.004518 | 0.002316 | 41.18 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MCM-05 | 0.0025 | 0.0019 | 0.036 | No | 17 | 0.002333 | 0.0005536 | 88.24 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-06 | 0.0025 | 0.0009 | 0.036 | No | 17 | 0.002276 | 0.0006399 | 88.24 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-07 | 0.0025 | 0.0011 | 0.036 | No | 16 | 0.002276 | 0.0006298 | 87.5 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-12 | 0.0025 | 0.00053 | 0.036 | No | 16 | 0.001762 | 0.0009856 | 62.5 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-14 | 0.0025 | 0.0006 | 0.036 | No | 16 | 0.002381 | 0.000475 | 93.75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-17 | 0.0025 | 0.00052 | 0.036 | No | 16 | 0.001992 | 0.0009129 | 75 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | DPZ-02 | 9.978 | 5.787 | 55.8 | No | 4 | 7.883 | 0.9229 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-04 | 5.506 | 2.866 | 55.8 | No | 16 | 4.316 | 2.278 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-05 | 2.71 | 1.43 | 55.8 | No | 17 | 2.718 | 2.163 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | MCM-06 | 8.58 | 1.83 | 55.8 | No | 16 | 5.191 | 3.243 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | MCM-07 | 9.295 | 5.783 | 55.8 | No | 17 | 7.539 | 2.802 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-12 | 3.079 | 2.126 | 55.8 | No | 16 | 2.603 | 0.7328 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-14 | 7.329 | 3.467 | 55.8 | No | 17 | 5.398 | 3.082 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-17 | 8.82 | 2.22 | 55.8 | No | 17 | 5.269 | 3.011 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | DPZ-02 | 0.11 | 0.1 | 4 | No | 5 | 0.102 | 0.004472 | 80 | None | No | 0.031 | NP (NDs) |
| Fluoride (mg/L) | MCM-04 | 0.12 | 0.095 | 4 | No | 17 | 0.1331 | 0.1219 | 52.94 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MCM-05 | 0.4419 | 0.2033 | 4 | No | 19 | 0.4058 | 0.2315 | 15.79 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MCM-06 | 0.3 | 0.1 | 4 | No | 17 | 0.244 | 0.2623 | 47.06 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MCM-07 | 0.42 | 0.1 | 4 | No | 18 | 0.2748 | 0.2796 | 44.44 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MCM-12 | 1.28 | 0.987 | 4 | No | 17 | 1.1 | 0.3205 | 5.882 | None | x^2 | 0.01 | Param. |
| Fluoride (mg/L) | MCM-14 | 0.49 | 0.1 | 4 | No | 18 | 0.218 | 0.1922 | 55.56 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MCM-17 | 1.2 | 0.1 | 4 | No | 18 | 0.5285 | 0.4963 | 38.89 | None | No | 0.01 | NP (normality) |

Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:00 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|---------------|----------------|----------------|-------------|------------|-----------|----------------|----------------|--------------|-------------|------------|-------------|----------------|
| Lead (mg/L) | MCM-05 | 0.005 | 0.0002 | 0.015 | No | 17 | 0.004718 | 0.001164 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-06 | 0.005 | 0.00012 | 0.015 | No | 17 | 0.004713 | 0.001184 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-07 | 0.005 | 0.0002 | 0.015 | No | 16 | 0.004086 | 0.001965 | 81.25 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-12 | 0.005 | 0.0001 | 0.015 | No | 16 | 0.003518 | 0.002276 | 68.75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-14 | 0.005 | 0.00008 | 0.015 | No | 16 | 0.004692 | 0.00123 | 93.75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-17 | 0.005 | 0.00027 | 0.015 | No | 16 | 0.003809 | 0.00213 | 75 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | DPZ-02 | 0.09839 | 0.06881 | 0.04 | Yes | 7 | 0.07907 | 0.02995 | 14.29 | None | x^4 | 0.01 | Param. |
| Lithium (mg/L) | MCM-04 | 0.025 | 0.0015 | 0.04 | No | 16 | 0.01347 | 0.01192 | 50 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MCM-05 | 0.0376 | 0.021 | 0.04 | No | 17 | 0.05995 | 0.1317 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MCM-06 | 0.09647 | 0.0557 | 0.04 | Yes | 17 | 0.07608 | 0.03253 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MCM-07 | 0.04934 | 0.02023 | 0.04 | No | 17 | 0.04114 | 0.0352 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | MCM-12 | 0.013 | 0.0102 | 0.04 | No | 16 | 0.01369 | 0.005744 | 18.75 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MCM-14 | 0.04813 | 0.02964 | 0.04 | No | 17 | 0.03614 | 0.01761 | 5.882 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | MCM-17 | 0.02516 | 0.01509 | 0.04 | No | 16 | 0.02013 | 0.007746 | 6.25 | None | No | 0.01 | Param. |
| Mercury (mg/L) | MCM-04 | 0.00071 | 0.0002 | 0.002 | No | 13 | 0.0002392 | 0.0001414 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-05 | 0.0002 | 0.000042 | 0.002 | No | 13 | 0.0001878 | 0.00004382 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-06 | 0.0002 | 0.00016 | 0.002 | No | 14 | 0.0001971 | 0.00001069 | 92.86 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-07 | 0.00067 | 0.0002 | 0.002 | No | 13 | 0.0002362 | 0.0001304 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-14 | 0.00066 | 0.0002 | 0.002 | No | 13 | 0.0002354 | 0.0001276 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-17 | 0.00064 | 0.000036 | 0.002 | No | 13 | 0.0002212 | 0.0001337 | 84.62 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-04 | 0.01 | 0.00015 | 0.1 | No | 14 | 0.009296 | 0.002633 | 92.86 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-05 | 0.01 | 0.0099 | 0.1 | No | 14 | 0.008718 | 0.003238 | 78.57 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-06 | 0.01 | 0.0017 | 0.1 | No | 15 | 0.007307 | 0.003952 | 66.67 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-07 | 0.01 | 0.00095 | 0.1 | No | 14 | 0.009354 | 0.002419 | 92.86 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-17 | 0.01 | 0.0019 | 0.1 | No | 14 | 0.009421 | 0.002165 | 92.86 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-04 | 0.005 | 0.0025 | 0.15 | No | 16 | 0.00425 | 0.001681 | 81.25 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-05 | 0.005 | 0.0028 | 0.15 | No | 17 | 0.004359 | 0.001203 | 76.47 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-06 | 0.0054 | 0.0022 | 0.15 | No | 17 | 0.004353 | 0.001779 | 52.94 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-07 | 0.005 | 0.0023 | 0.15 | No | 16 | 0.004175 | 0.001255 | 56.25 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-12 | 0.005 | 0.0019 | 0.15 | No | 16 | 0.003637 | 0.001615 | 56.25 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-14 | 0.0057 | 0.0019 | 0.15 | No | 16 | 0.004144 | 0.001456 | 62.5 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-17 | 0.0067 | 0.0021 | 0.15 | No | 16 | 0.004262 | 0.001976 | 50 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | MCM-06 | 0.001 | 0.000076 | 0.002 | No | 15 | 0.0009384 | 0.0002386 | 93.33 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MCM-17 | 0.001 | 0.00014 | 0.002 | No | 14 | 0.0009386 | 0.0002298 | 92.86 | None | No | 0.01 | NP (NDs) |

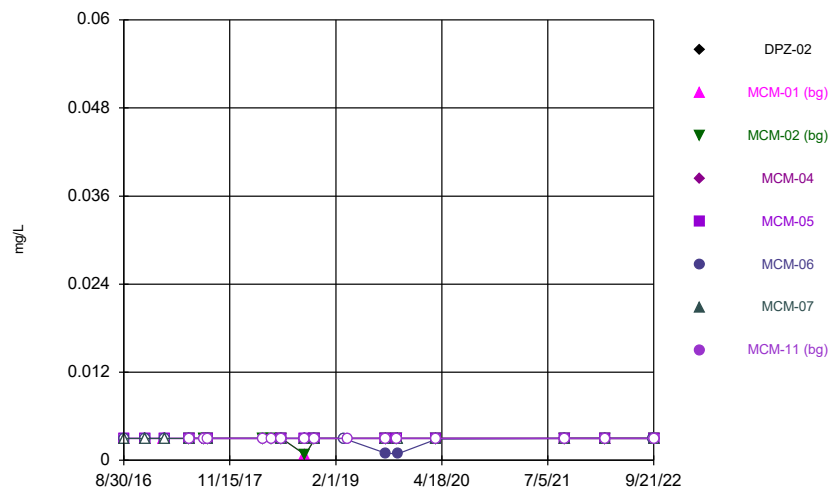
Appendix IV Trend Tests - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:04 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|----------------|-------------|------------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Arsenic (mg/L) | MCM-01 (bg) | 0.0008066 | 39 | 63 | No | 17 | 5.882 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-02 (bg) | 0 | 3 | 63 | No | 17 | 41.18 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-06 | 0.02021 | 26 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-11 (bg) | -0.00233 | -49 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-15 (bg) | 0.0001728 | 23 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-16 (bg) | 0 | -7 | -58 | No | 16 | 50 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-18 (bg) | -0.001407 | -37 | -48 | No | 14 | 14.29 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-19 (bg) | -0.0005489 | -7 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-20 (bg) | 0 | 1 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | DPZ-02 | -0.003763 | -9 | -18 | No | 7 | 14.29 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-01 (bg) | 0 | -11 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-02 (bg) | 0 | 3 | 58 | No | 16 | 93.75 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-06 | 0.008391 | 38 | 63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-11 (bg) | 0 | 13 | 58 | No | 16 | 43.75 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-15 (bg) | 0 | 17 | 58 | No | 16 | 56.25 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-16 (bg) | 0 | -11 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-18 (bg) | 0.007745 | 22 | 34 | No | 11 | 54.55 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-19 (bg) | -0.0007766 | -13 | -48 | No | 14 | 7.143 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-20 (bg) | 0 | -1 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |

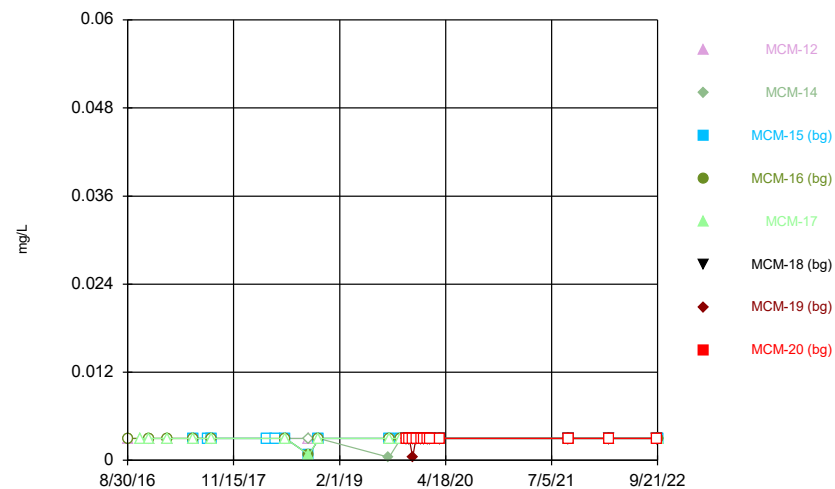
FIGURE A.

Time Series



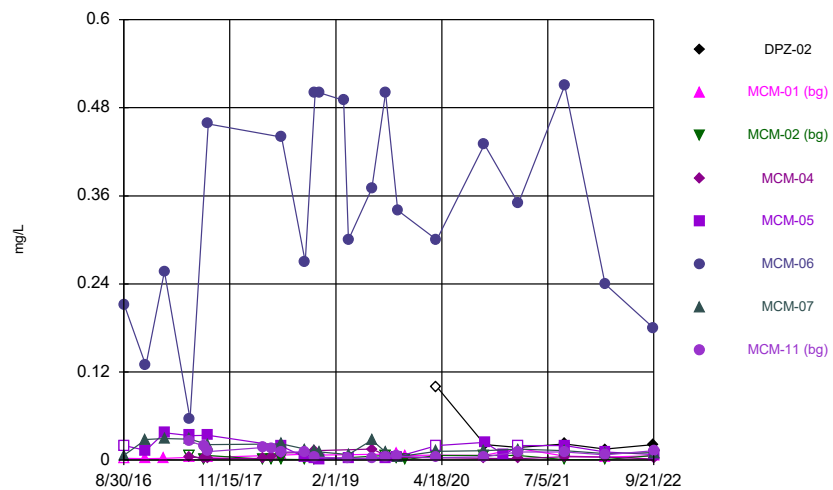
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Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



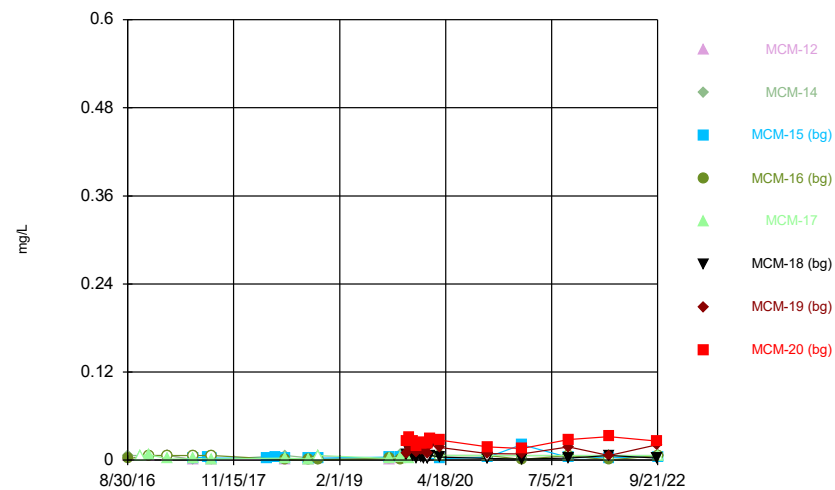
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Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



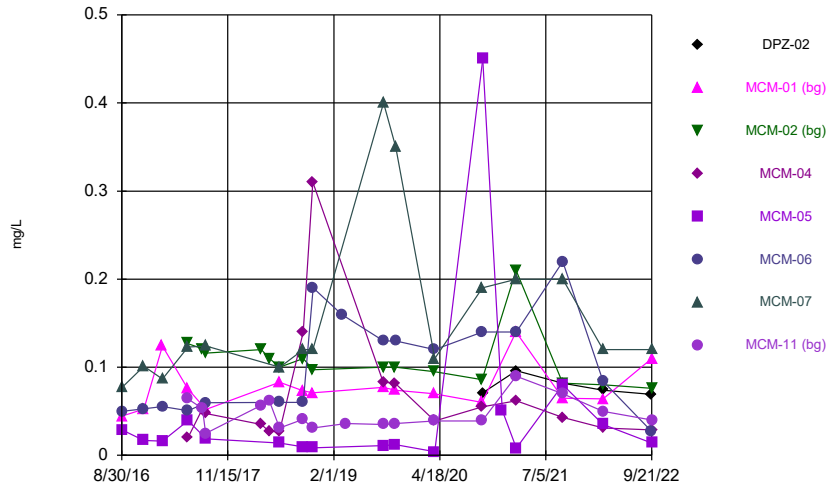
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Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



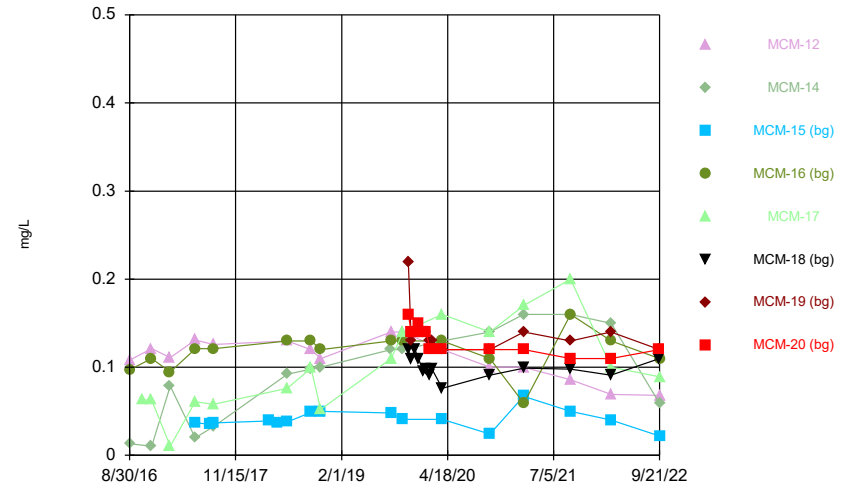
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Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



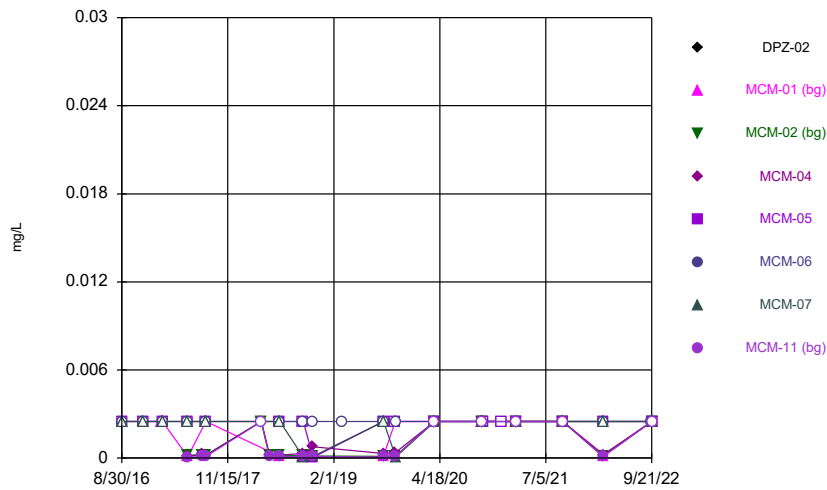
Constituent: Barium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



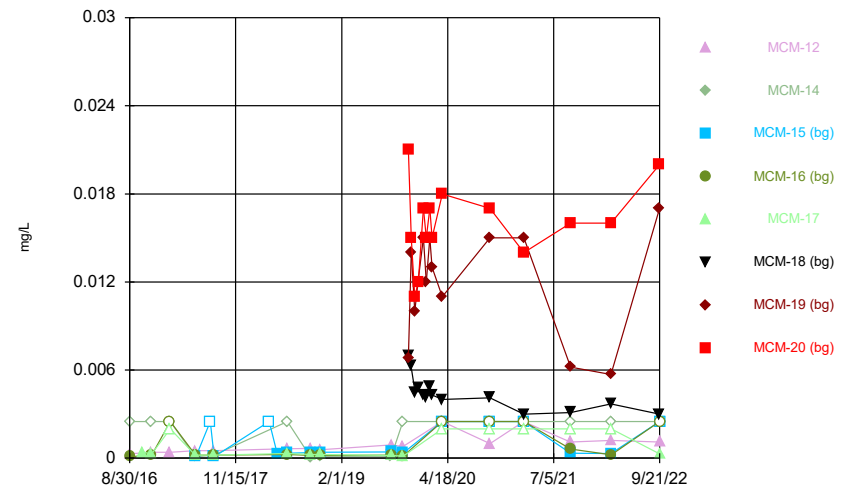
Constituent: Barium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



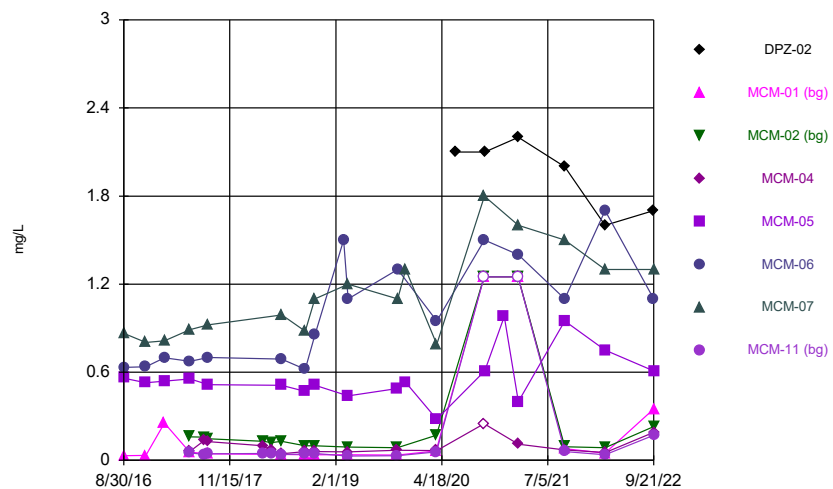
Constituent: Beryllium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



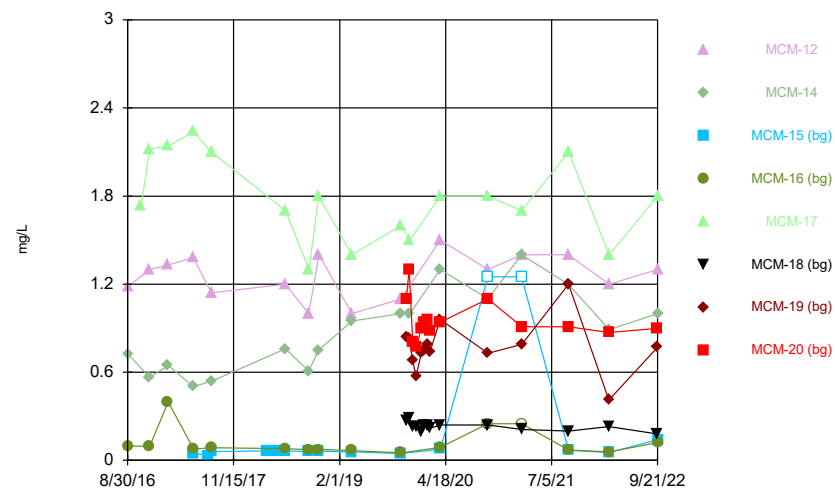
Constituent: Beryllium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



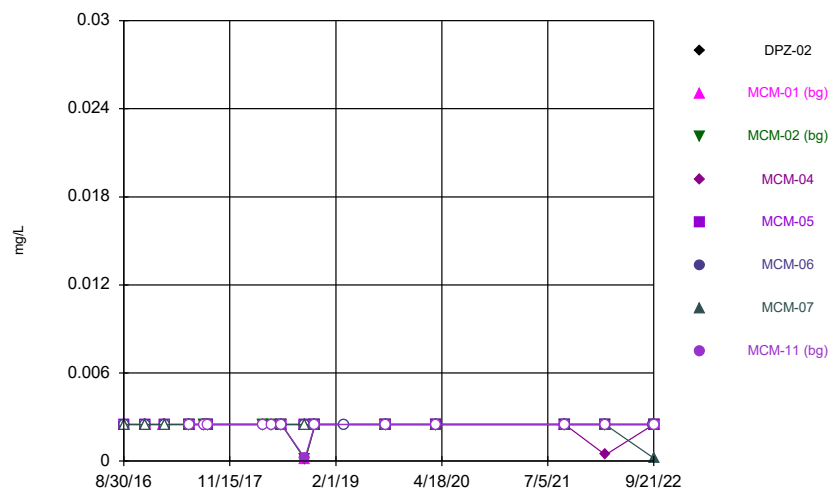
Constituent: Boron Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



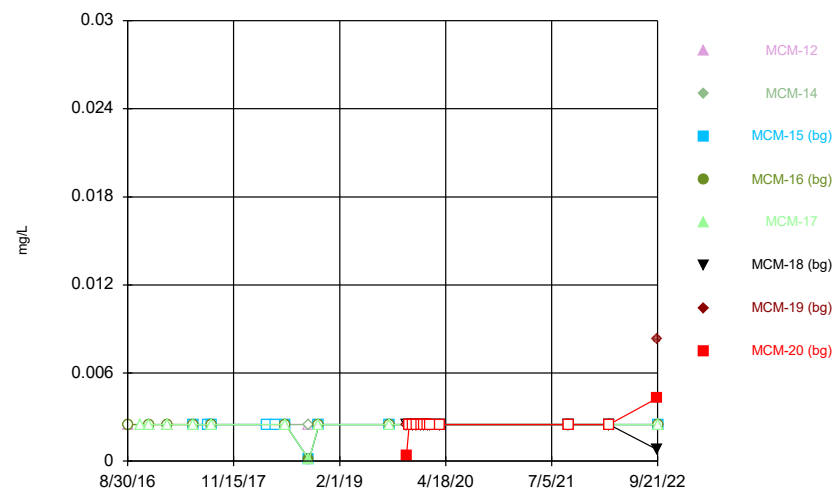
Constituent: Boron Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



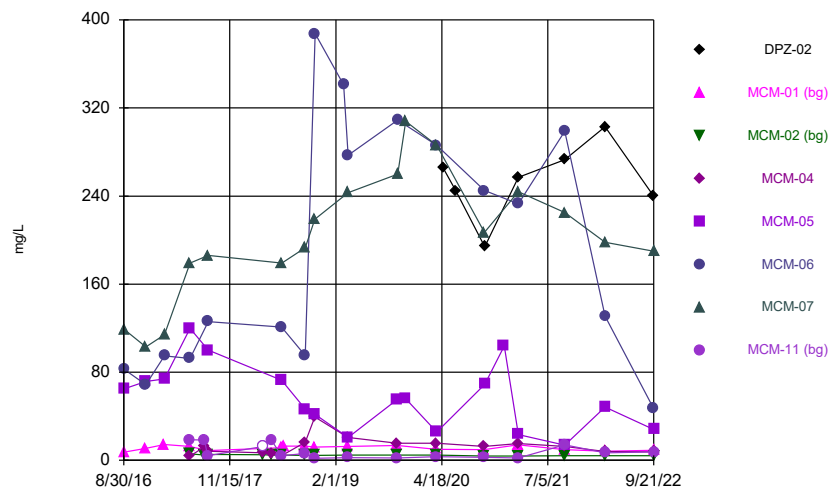
Constituent: Cadmium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



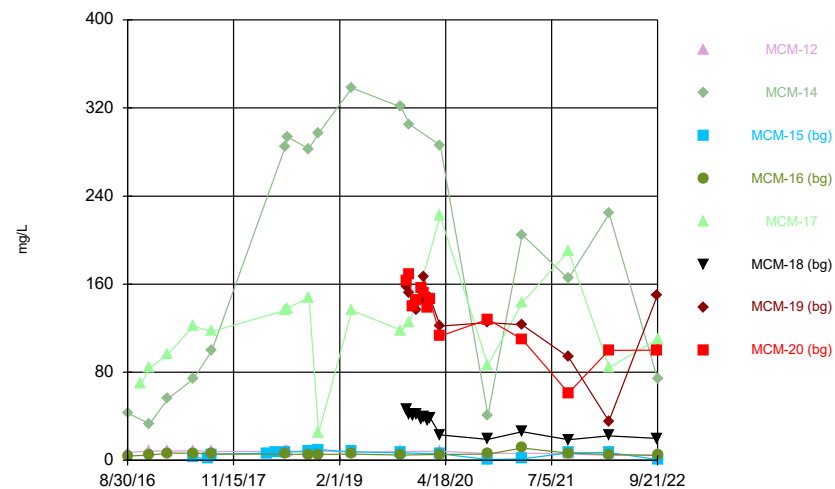
Constituent: Cadmium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



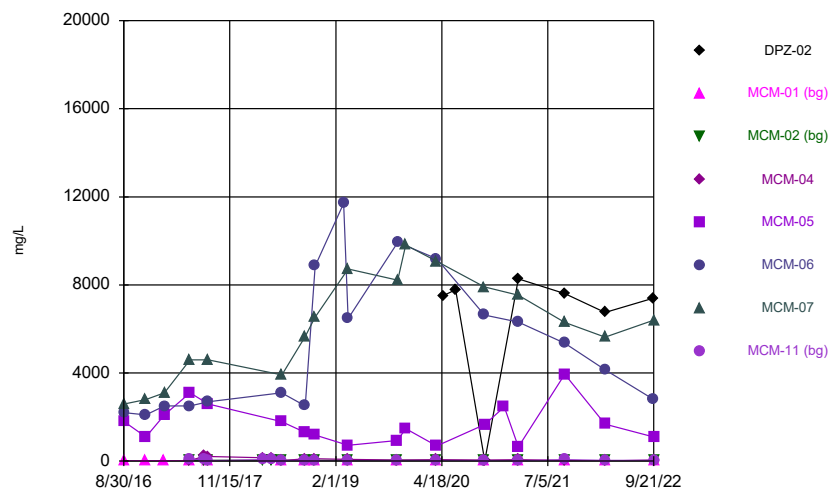
Constituent: Calcium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



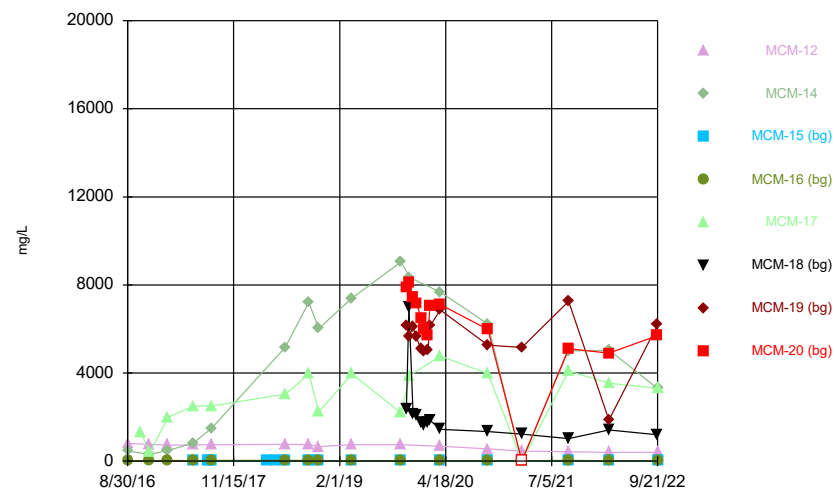
Constituent: Calcium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



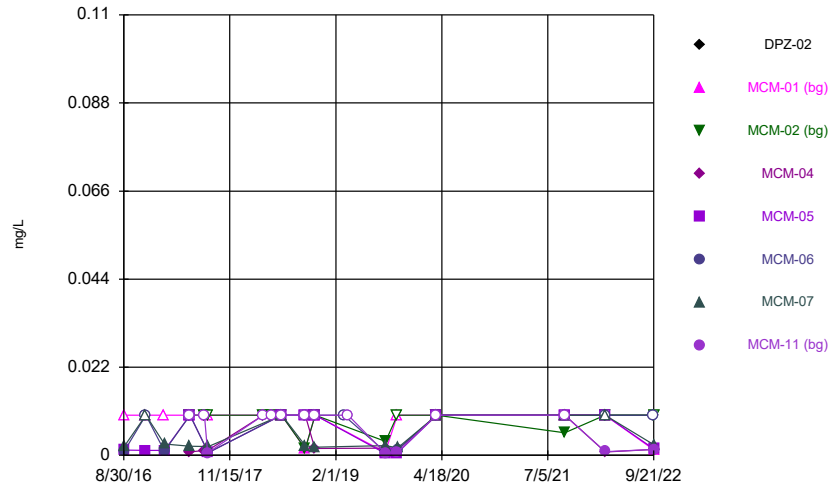
Constituent: Chloride Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



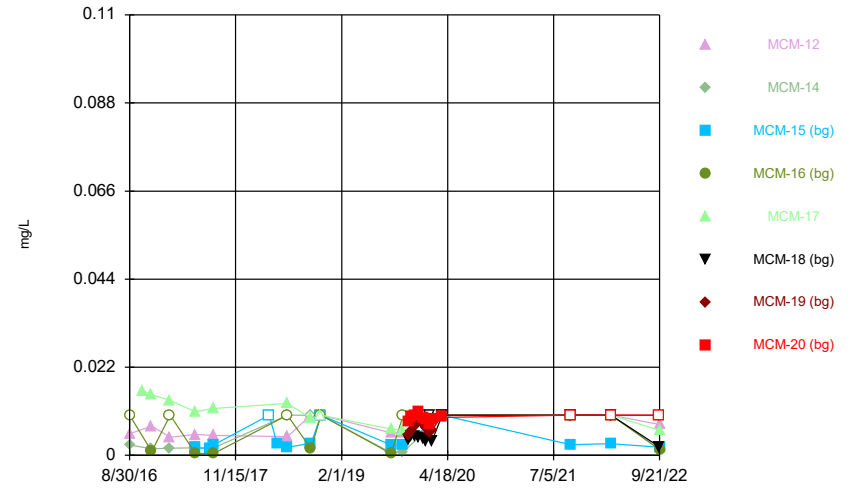
Constituent: Chloride Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



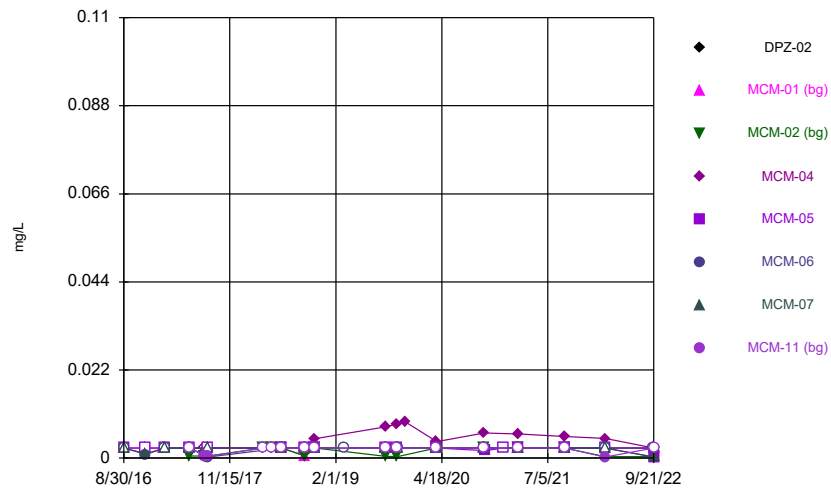
Constituent: Chromium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



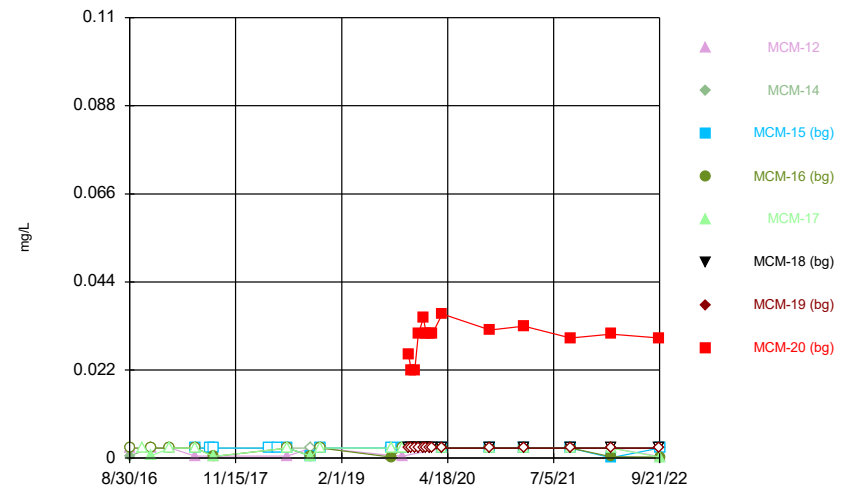
Constituent: Chromium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



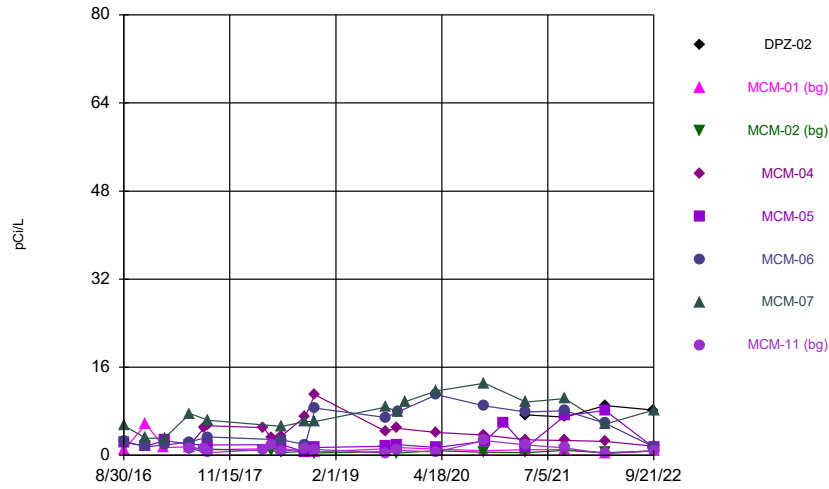
Constituent: Cobalt Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



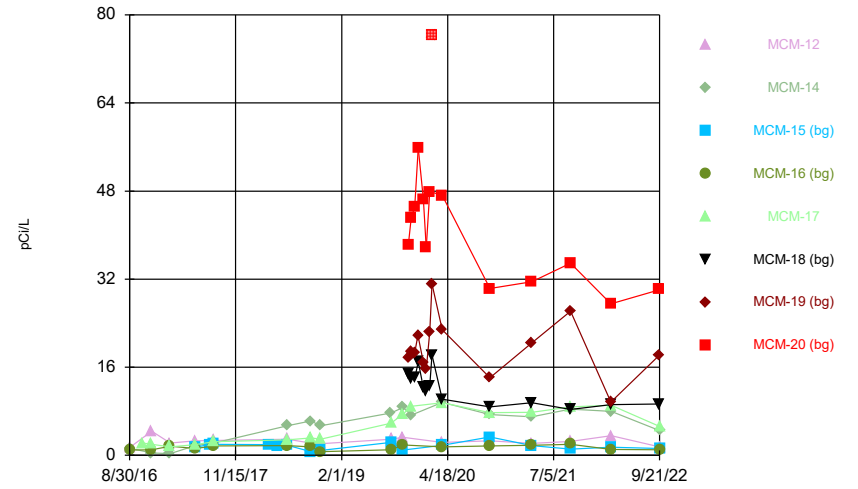
Constituent: Cobalt Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



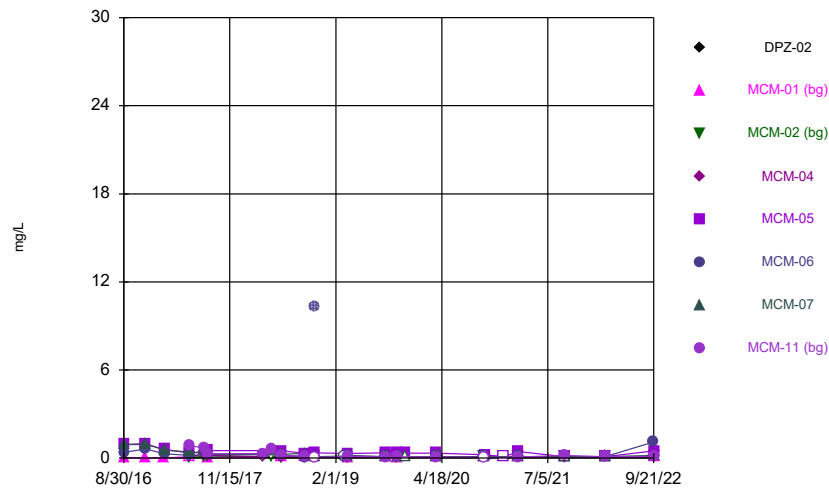
Constituent: Combined Radium 226 + 228 Analysis Run 12/22/2022 12:03 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



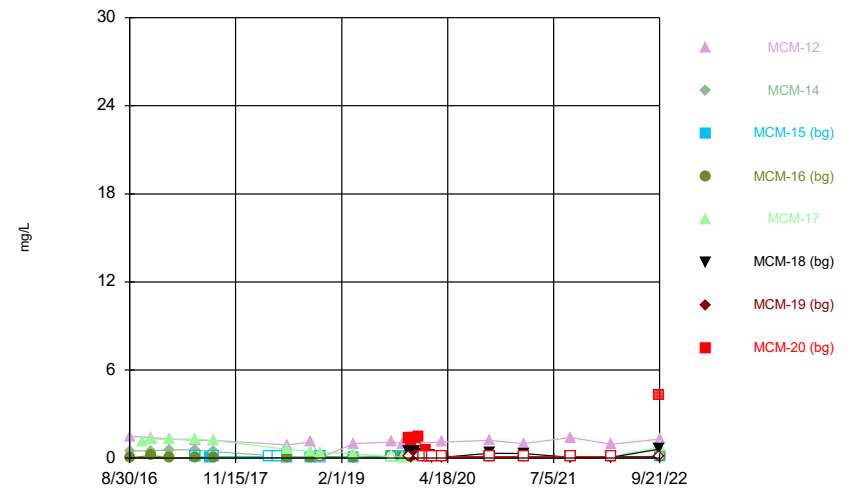
Constituent: Combined Radium 226 + 228 Analysis Run 12/22/2022 12:03 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



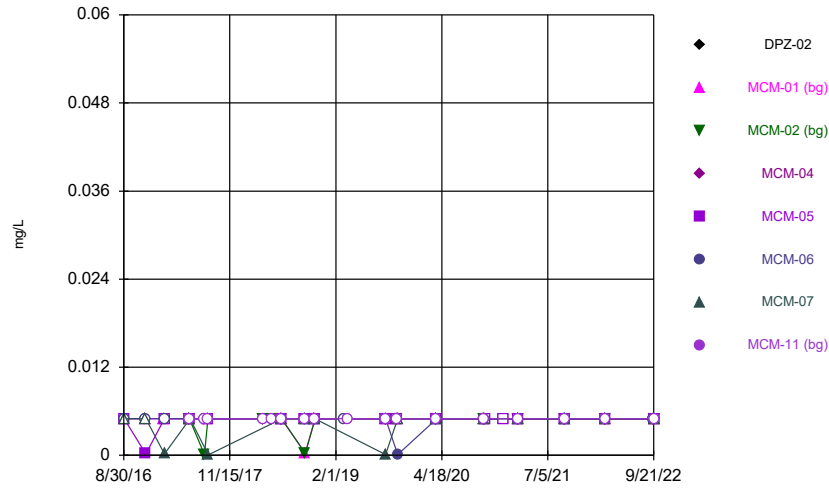
Constituent: Fluoride Analysis Run 12/22/2022 12:03 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



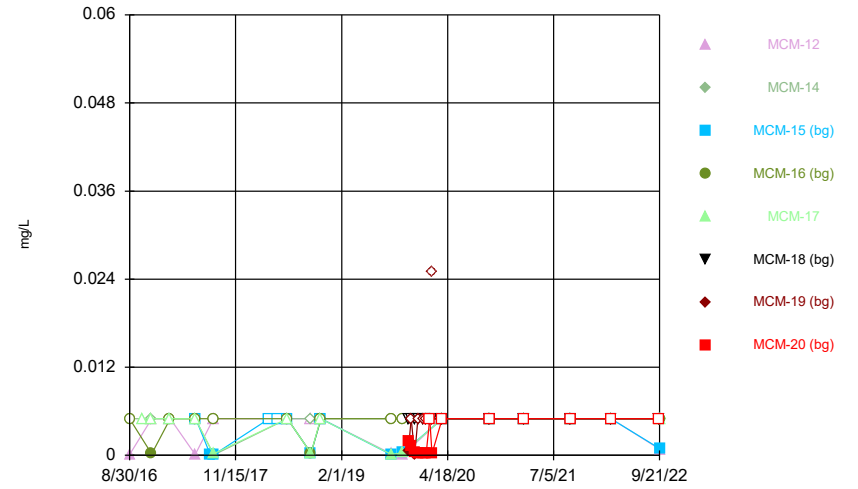
Constituent: Fluoride Analysis Run 12/22/2022 12:03 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



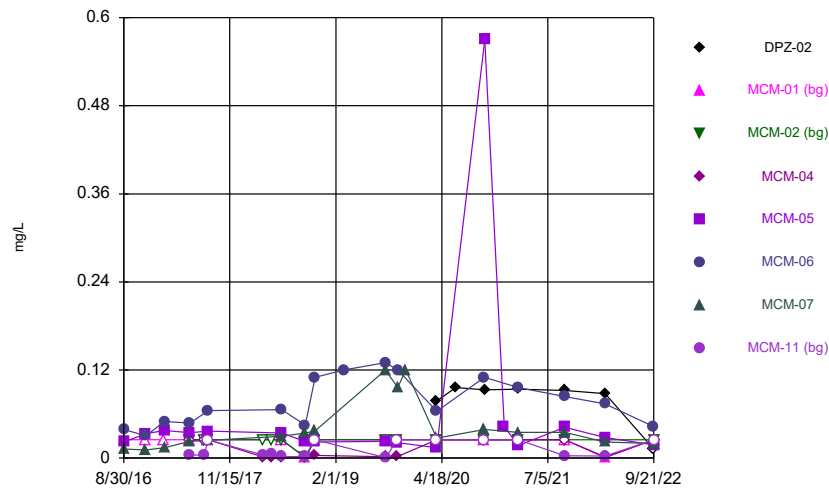
Constituent: Lead Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



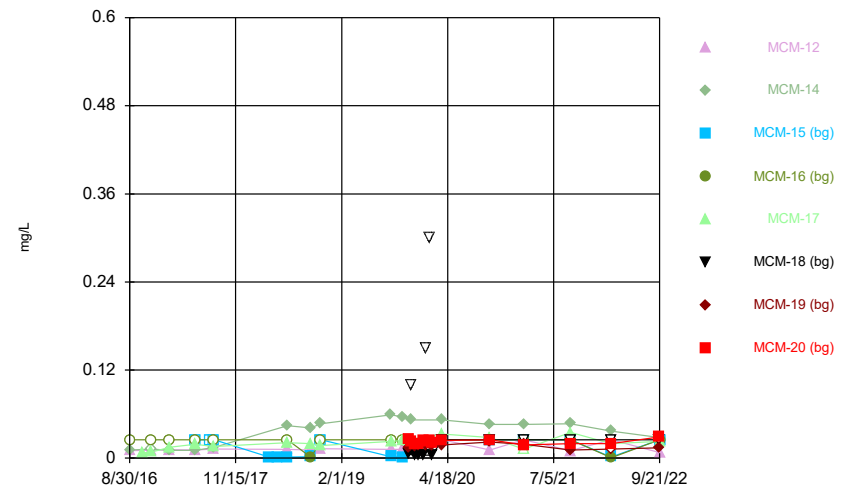
Constituent: Lead Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



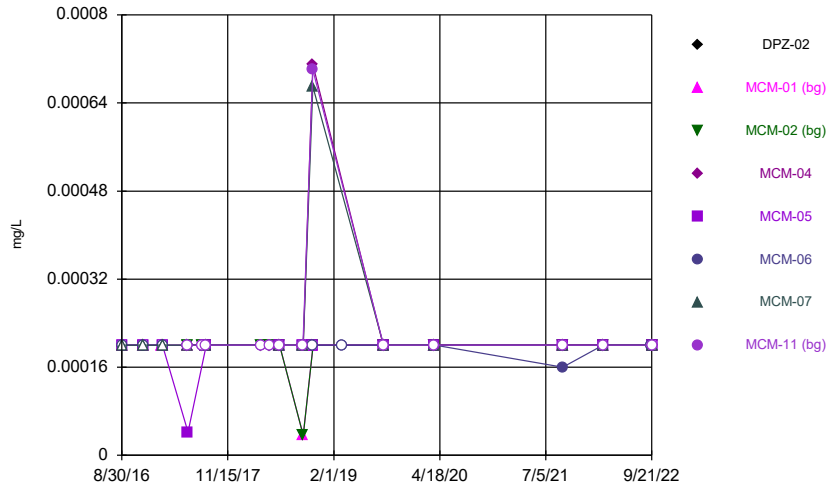
Constituent: Lithium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



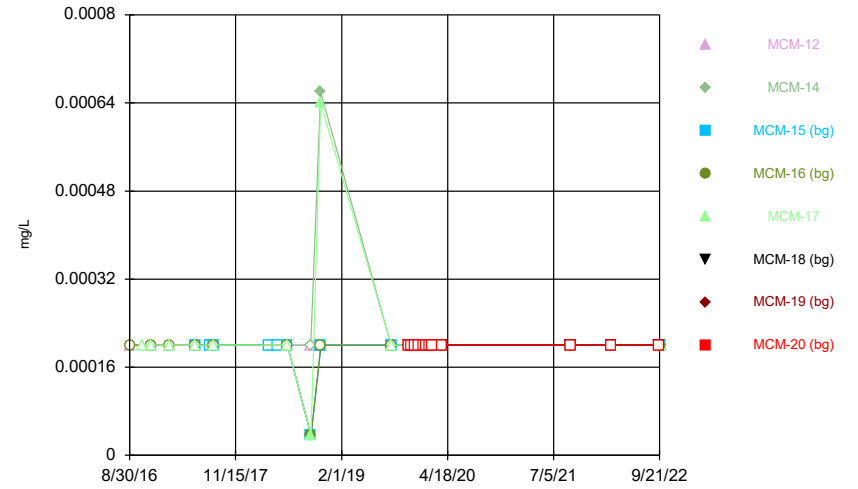
Constituent: Lithium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



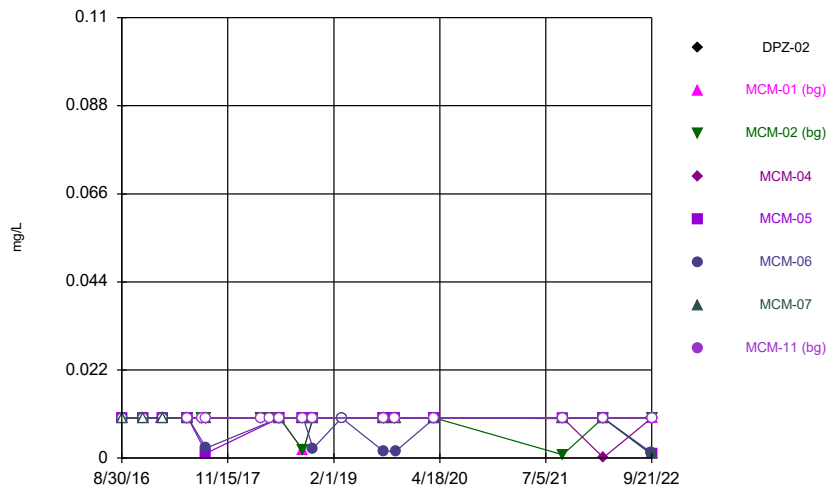
Constituent: Mercury Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



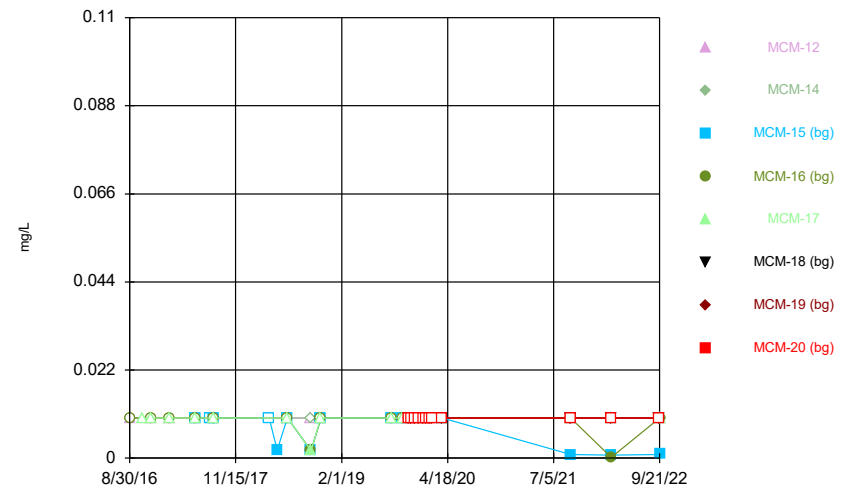
Constituent: Mercury Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



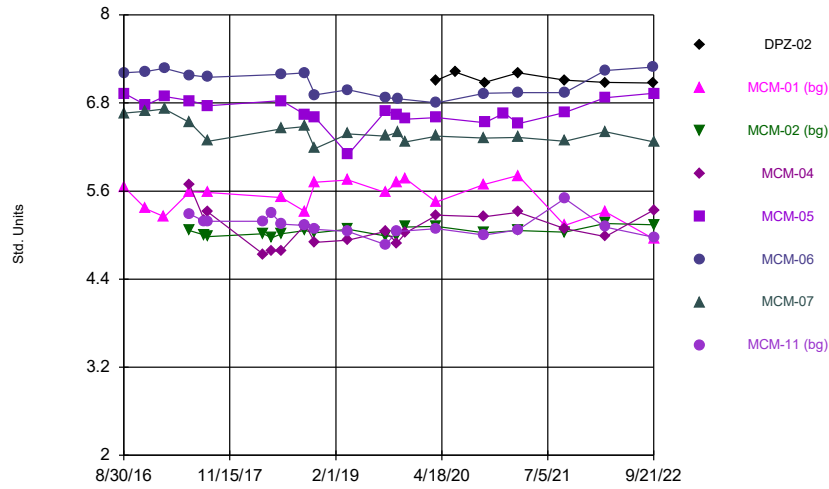
Constituent: Molybdenum Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



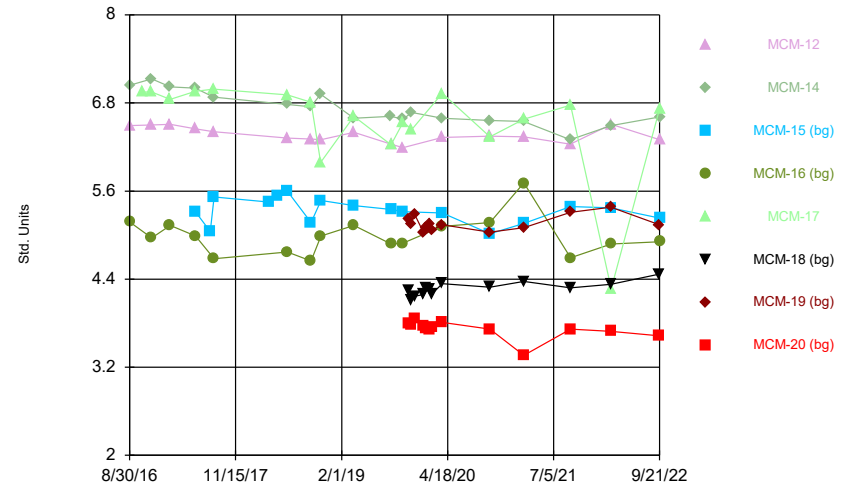
Constituent: Molybdenum Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



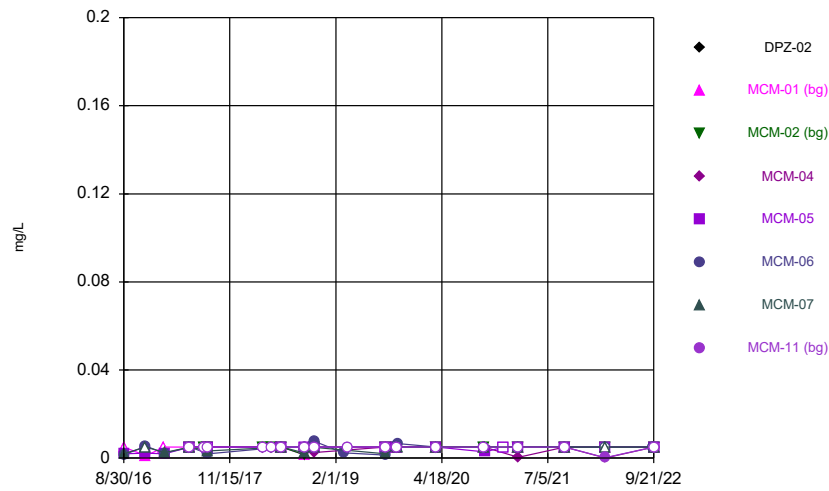
Constituent: pH, field Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



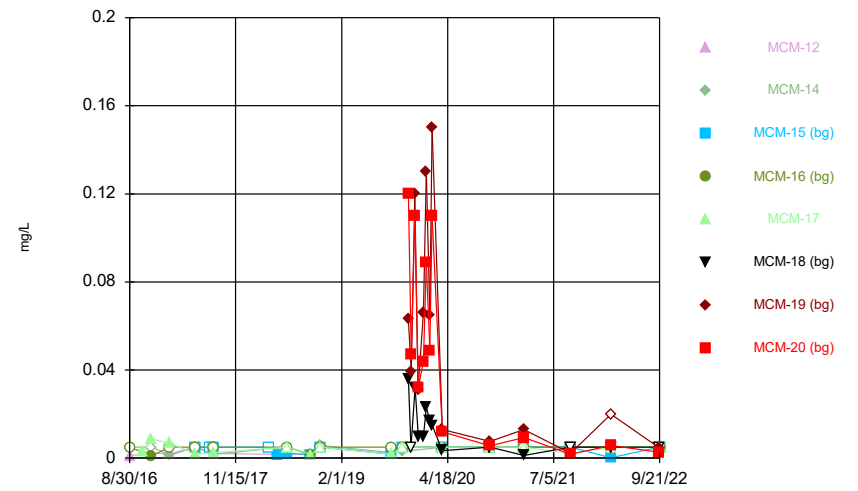
Constituent: pH, field Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



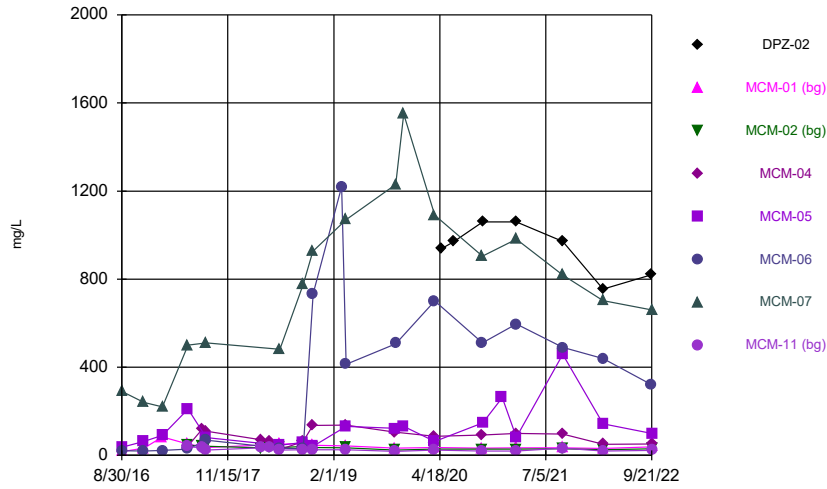
Constituent: Selenium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



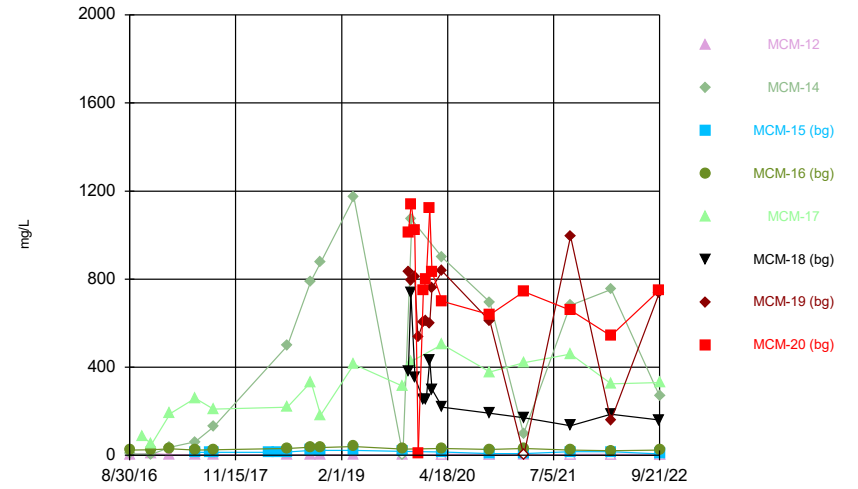
Constituent: Selenium Analysis Run 12/22/2022 12:03 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



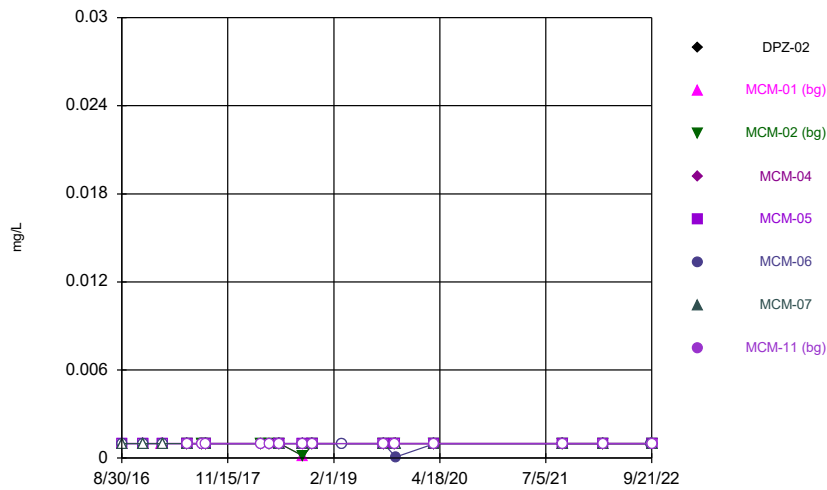
Constituent: Sulfate Analysis Run 12/22/2022 12:04 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



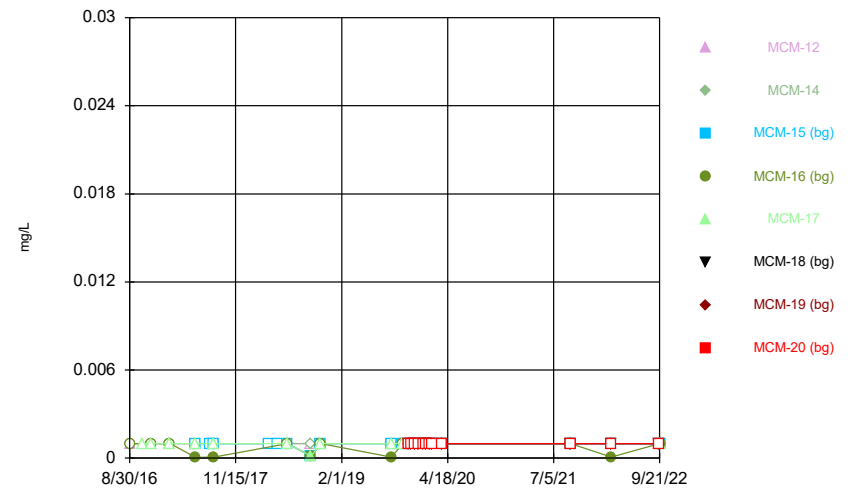
Constituent: Sulfate Analysis Run 12/22/2022 12:04 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



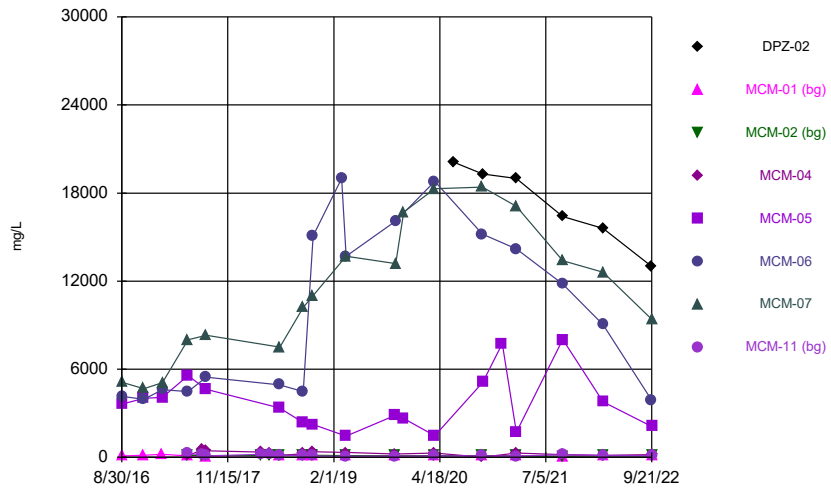
Constituent: Thallium Analysis Run 12/22/2022 12:04 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



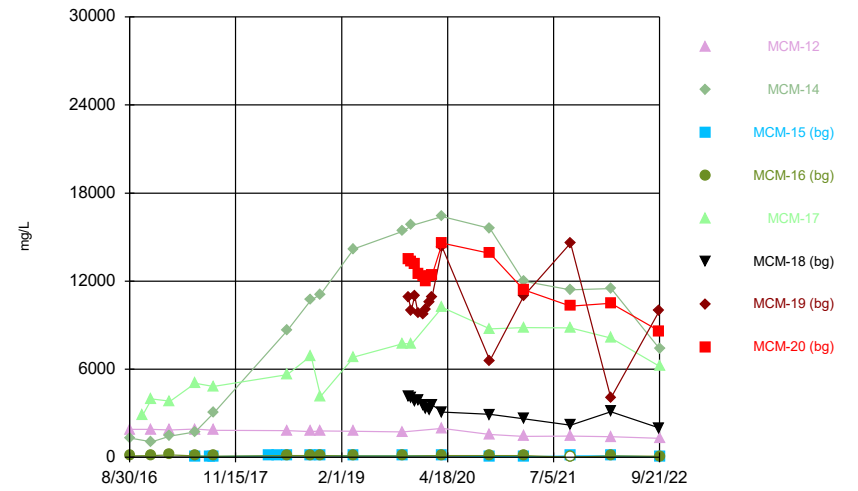
Constituent: Thallium Analysis Run 12/22/2022 12:04 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



Constituent: Total Dissolved Solids Analysis Run 12/22/2022 12:04 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series



Constituent: Total Dissolved Solids Analysis Run 12/22/2022 12:04 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.00078 | 0.00078 | | | | | |
| 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 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | 0.00078 | 0.00078 | 0.00078 | | | |
| 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 | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | <0.0063 | | | | | 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) | <0.0063 | | | | | |
| 8/17/2017 | | | | 0.0021 (J) | 0.0336 | 0.458 | 0.0211 | |
| 4/4/2018 | | | | 0.0023 (J) | | | | 0.017 |
| 4/5/2018 | | | 0.00098 (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) | |
| 9/25/2018 | | | | | | | | 0.011 |
| 9/26/2018 | | 0.0081 | 0.00057 | | | | | |
| 9/27/2018 | | | | 0.01 | 0.0035 (J) | 0.27 | 0.015 | |
| 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 | |
| 3/6/2019 | | | | | | 0.49 | | |
| 3/25/2019 | | | | | | | | 0.0029 (J) |
| 3/26/2019 | | | | | 0.0018 (J) | 0.3 | 0.0078 | |
| 7/2/2019 | | | | 0.015 (J) | | 0.37 | 0.027 | 0.0024 (J) |
| 8/27/2019 | | 0.0079 | | 0.0072 | | | | |
| 8/28/2019 | | | <0.0063 | | 0.0019 (J) | 0.5 | 0.011 | 0.005 (J) |
| 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 | | | <0.0063 | | | | | 0.0034 (J) |
| 3/28/2020 | <0.1 | | | 0.0034 (J) | <0.02 | 0.3 | 0.012 | |
| 10/12/2020 | | | | | | | | 0.0047 (J) |
| 10/13/2020 | | 0.0061 | <0.0063 | 0.0022 (J) | | | | |
| 10/14/2020 | | | | | | 0.43 | 0.013 | |
| 10/15/2020 | 0.021 | | | | 0.024 | | | |
| 1/4/2021 | | | | | 0.0072 | | | |
| 3/3/2021 | | 0.016 (J) | <0.0063 | | | | | 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 | | | | |
| 9/20/2022 | 0.021 | | | | | 0.18 | | |
| 9/21/2022 | | 0.0057 (J) | <0.0063 | 0.0017 (J) | 0.0077 | | 0.01 | 0.013 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-12 | MCM-14 | MCM-15 (bg) | MCM-16 (bg) | MCM-17 | MCM-18 (bg) | MCM-19 (bg) | MCM-20 (bg) |
|------------|------------|------------|-------------|-------------|------------|-------------|-------------|-------------|
| 8/30/2016 | <0.0063 | <0.0063 | | 0.0018 (J) | | | | |
| 10/25/2016 | | | | | <0.0063 | | | |
| 11/30/2016 | <0.0063 | <0.0063 | | <0.0063 | 0.0072 | | | |
| 2/15/2017 | <0.0063 | <0.0063 | | <0.0063 | 0.0017 (J) | | | |
| 5/31/2017 | 0.0007 (J) | 0.0008 (J) | | | 0.0018 (J) | | | |
| 6/1/2017 | | | | <0.0063 | | | | |
| 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) | <0.0063 | | | | |
| 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) | 0.00057 | 0.0015 (J) | | | |
| 11/6/2018 | | 0.0014 (J) | | | <0.0063 | | | |
| 11/7/2018 | 0.0057 | | 0.0028 | 0.00057 | | | | |
| 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 | <0.0063 | <0.0063 | 0.0018 (J) | <0.0063 | <0.0063 | 0.0043 (J) | 0.017 | 0.027 |
| 10/12/2020 | <0.0063 | | | | | <0.005 | | |
| 10/13/2020 | | <0.0063 | 0.0042 (J) | <0.0063 | <0.0063 | | 0.0089 | 0.018 |
| 3/2/2021 | <0.0063 | <0.0063 | 0.021 (J) | | | | | |
| 3/3/2021 | | | | 0.0012 (J) | <0.0063 | 0.0014 (J) | 0.0086 (J) | 0.016 (J) |
| 9/13/2021 | <0.0063 | <0.0063 | | | | | | |
| 9/14/2021 | | | 0.0035 (J) | <0.0063 | <0.0063 | 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 | <0.0063 | <0.0063 | | 0.00024 (J) | <0.0063 | | | |
| 9/20/2022 | | | | | | 0.0026 (J) | 0.021 | 0.026 |
| 9/21/2022 | <0.0063 | <0.0063 | 0.0044 (J) | <0.0063 | <0.0063 | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 |

Time Series

Constituent: Barium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (M1) | 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 | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | <0.0025 | <0.0025 | |
| 2/15/2017 | | <0.0025 | | | | | | |
| 2/16/2017 | | | | | <0.0025 | <0.0025 | <0.0025 | |
| 5/31/2017 | | | 0.0002 (J) | | | | | 7E-05 (J) |
| 6/1/2017 | | 9E-05 (J) | | 0.0001 (J) | | | | |
| 6/2/2017 | | | | | <0.0025 | <0.0025 | <0.0025 | |
| 8/2/2017 | | | 0.0002 (J) | 0.0003 (J) | | | | 0.0001 (J) |
| 8/15/2017 | | | | | | | | 9E-05 (J) |
| 8/16/2017 | | <0.0025 | 0.0002 (J) | | | | | |
| 8/17/2017 | | | | 0.0002 (J) | <0.0025 | <0.0025 | <0.0025 | |
| 4/4/2018 | | | | <0.0025 | | | | <0.0025 |
| 4/5/2018 | | | <0.0025 | | | | | |
| 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) | <0.0025 | <0.0025 | | |
| 6/21/2018 | | | | | | | <0.0025 | |
| 9/25/2018 | | | | | | | | 0.0001 (J) |
| 9/26/2018 | | 9.2E-05 (J) | 0.00017 (J) | | | | | |
| 9/27/2018 | | | | 0.00031 (J) | <0.0025 | <0.0025 | 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) | <0.0025 | | |
| 3/6/2019 | | | | | | <0.0025 | | |
| 8/27/2019 | | 9E-05 (J) | | 0.00032 (J) | | | | |
| 8/28/2019 | | | 0.00011 (J) | | <0.0025 | <0.0025 | <0.0025 | 8.4E-05 (J) |
| 10/15/2019 | | | | 0.00035 (J) | | | | |
| 10/16/2019 | | <0.0025 | 0.00013 (J) | | <0.0025 | | | 9E-05 (J) |
| 10/17/2019 | | | | | | <0.0025 | 7.8E-05 (J) | |
| 3/26/2020 | | <0.0025 | | | | | | |
| 3/27/2020 | | | <0.0025 | | | | | <0.0025 |
| 3/28/2020 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |
| 10/12/2020 | | | | | | | | <0.0025 |
| 10/13/2020 | | <0.0025 | <0.0025 | <0.0025 | | | | |
| 10/14/2020 | | | | | | <0.0025 | <0.0025 | |
| 10/15/2020 | <0.0025 | | | | <0.0025 | | | |
| 1/4/2021 | | | | | <0.0025 | | | |
| 3/3/2021 | | <0.0025 | <0.0025 | | | | | <0.0025 |
| 3/4/2021 | <0.0025 | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |
| 9/14/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/1/2022 | <0.0025 | | | | <0.0025 | <0.0025 | | |
| 3/2/2022 | | 9.6E-05 (J) | 0.00015 | | | | <0.0025 | 0.00011 |
| 3/3/2022 | | | | 0.00025 | | | | |
| 9/20/2022 | <0.0025 | | | | | <0.0025 | | |
| 9/21/2022 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | <0.0025 | <0.0025 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) | <0.0025 | | 0.0001 (J) | | | | |
| 10/25/2016 | | | | | 0.0004 (J) | | | |
| 11/30/2016 | 0.0004 (J) | <0.0025 | | 0.0002 (J) | 0.0003 (J) | | | |
| 2/15/2017 | 0.0004 (J) | <0.0025 | | <0.0025 | <0.002 | | | |
| 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 | | | <0.0025 | | | | | |
| 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 | | | <0.0025 | | | | | |
| 5/8/2018 | | | 0.00031 (J) | | | | | |
| 6/19/2018 | 0.00065 (J) | <0.0025 | 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) | <0.0025 | 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 | <0.0025 | <0.0025 | <0.0025 | <0.002 | 0.004 | 0.011 | 0.018 |
| 10/12/2020 | 0.001 (J) | | | | | 0.0041 | | |
| 10/13/2020 | | <0.0025 | <0.0025 | <0.0025 | <0.002 | | 0.015 | 0.017 |
| 3/2/2021 | <0.005 | <0.0025 | <0.0025 | | | | | |
| 3/3/2021 | | | | <0.0025 | <0.002 | 0.003 | 0.015 | 0.014 |
| 9/13/2021 | 0.0011 | <0.0025 | | | | | | |
| 9/14/2021 | | | 0.00034 (J) | 0.00062 | <0.002 | 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) | <0.0025 | | 0.00023 | <0.002 | | | |
| 9/20/2022 | | | | | | 0.003 | 0.017 | 0.02 |
| 9/21/2022 | 0.0011 (J) | <0.0025 | <0.0025 | <0.0025 | 0.00029 (J) | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | | | |
| 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 | | | | | 0.98 | | | |
| 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) |

Time Series

Constituent: Boron (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 |
| 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) |
| 9/13/2021 | 1.4 (M1) | 1.2 | | | | | | |
| 9/14/2021 | | | 0.068 (J) | 0.071 (J) | 2.1 (M1) | 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 | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | <0.0025 | <0.0025 | |
| 2/15/2017 | | <0.0025 | | | | | | |
| 2/16/2017 | | | | | <0.0025 | <0.0025 | <0.0025 | |
| 5/31/2017 | | | <0.0025 | | | | | <0.0025 |
| 6/1/2017 | | <0.0025 | | <0.0025 | | | | |
| 6/2/2017 | | | | | <0.0025 | <0.0025 | <0.0025 | |
| 8/2/2017 | | | <0.0025 | <0.0025 | | | | <0.0025 |
| 8/15/2017 | | | | | | | | <0.0025 |
| 8/16/2017 | | <0.0025 | <0.0025 | | | | | |
| 8/17/2017 | | | | <0.0025 | <0.0025 | <0.0025 | <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 | | | | | | | | 0.0002 (J) |
| 9/26/2018 | | 9.3E-05 | 9.3E-05 | | | | | |
| 9/27/2018 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |
| 11/6/2018 | | | | <0.0025 | | | <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 | | <0.0025 | | | | |
| 8/28/2019 | | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/26/2020 | | <0.0025 | | | | | | |
| 3/27/2020 | | | <0.0025 | | | | | <0.0025 |
| 3/28/2020 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |
| 9/14/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/1/2022 | <0.0025 | | | | <0.0025 | <0.0025 | | |
| 3/2/2022 | | <0.0025 | <0.0025 | | | | <0.0025 | <0.0025 |
| 3/3/2022 | | | | 0.00043 | | | | |
| 9/20/2022 | <0.0025 | | | | | <0.0025 | | |
| 9/21/2022 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | 0.0002 (J) | <0.0025 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | <0.0025 | | <0.0025 | | | | |
| 10/25/2016 | | | | | <0.0025 | | | |
| 11/30/2016 | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | | | |
| 2/15/2017 | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | | | |
| 5/31/2017 | <0.0025 | <0.0025 | | | <0.0025 | | | |
| 6/1/2017 | | | | <0.0025 | | | | |
| 6/2/2017 | | | <0.0025 | | | | | |
| 8/2/2017 | | | <0.0025 | | | | | |
| 8/15/2017 | <0.0025 | | | | <0.0025 | | | |
| 8/16/2017 | | <0.0025 | | | | | | |
| 8/17/2017 | | | <0.0025 | <0.0025 | | | | |
| 4/4/2018 | | | <0.0025 | | | | | |
| 5/8/2018 | | | <0.0025 | | | | | |
| 6/19/2018 | <0.0025 | <0.0025 | <0.0025 | | <0.0025 | | | |
| 6/20/2018 | | | | <0.0025 | | | | |
| 9/25/2018 | <0.0025 | <0.0025 | | | | | | |
| 9/26/2018 | | | 9.3E-05 | 9.3E-05 | 9.3E-05 | | | |
| 11/6/2018 | | <0.0025 | | | <0.0025 | | | |
| 11/7/2018 | <0.0025 | | <0.0025 | <0.0025 | | | | |
| 8/26/2019 | | <0.0025 | | | | | | |
| 8/27/2019 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | | | |
| 11/7/2019 | | | | | | <0.0025 | <0.0025 | 0.00034 (J) |
| 11/18/2019 | | | | | | <0.0025 | | |
| 11/19/2019 | | | | | | | <0.0025 | <0.0025 |
| 12/4/2019 | | | | | | | <0.0025 | <0.0025 |
| 12/5/2019 | | | | | | <0.0025 | | |
| 12/17/2019 | | | | | | | <0.0025 | |
| 12/18/2019 | | | | | | <0.0025 | | <0.0025 |
| 1/8/2020 | | | | | | | <0.0025 | <0.0025 |
| 1/9/2020 | | | | | | <0.0025 | | |
| 1/21/2020 | | | | | | <0.0025 | <0.0025 | <0.0025 |
| 2/4/2020 | | | | | | <0.0025 | <0.0025 | <0.0025 |
| 2/13/2020 | | | | | | <0.0025 | <0.0025 | <0.0025 |
| 3/27/2020 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/13/2021 | <0.0025 | <0.0025 | | | | | | |
| 9/14/2021 | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/1/2022 | | | | | | | <0.0025 | <0.0025 |
| 3/2/2022 | | | <0.0025 | | | <0.0025 | | |
| 3/3/2022 | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | | | |
| 9/20/2022 | | | | | | 0.00078 (J) | 0.0083 (o) | 0.0043 |
| 9/21/2022 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) |
| 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 | 387.5 (D) | | |
| 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 (D) |
| 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 | | | | | | | |
| 6/16/2020 | 245 | | | | | | | |
| 10/12/2020 | | | | | | | | 2.8 |
| 10/13/2020 | | 9.8 | 3.8 | 12.5 | | | | |
| 10/14/2020 | | | | | | 245 | 207 | |
| 10/15/2020 | 194 | | | | 69.1 | | | |
| 1/4/2021 | | | | | 104 | | | |
| 3/3/2021 | | 14 | 4 | | | | | |
| 3/4/2021 | 257 | | | 15.1 | 23.4 | 233 | 244 | 2.1 |
| 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 | | | | |
| 9/20/2022 | 240 | | | | | 47 | | |
| 9/21/2022 | | 9.2 | 4.3 | 7.8 | 28 | | 190 | 7.6 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 |
| 3/4/2021 | 6.5 | 205 | 1.4 | 11.2 | 143 | 26 | 123 | 110 |
| 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 | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) | 5660 (D) | |
| 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 | | 941 (D) | | | 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 | | | | | | | |
| 6/16/2020 | 7780 | | | | | | | |
| 10/12/2020 | | | | | | | | 13.9 |
| 10/13/2020 | | 13.5 | 25.7 | 54.4 | | | | |
| 10/14/2020 | | | | | | 6630 | 7910 | |
| 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 | | | | |
| 9/20/2022 | 7400 | | | | | 2800 | | |
| 9/21/2022 | | 17 | 23 | 47 | 1100 | | 6400 | 32 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) | 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 | 2181.5 (D) | | | |
| 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 |
| 3/2/2021 | 459 | <1 | 4.2 | | | | | |
| 3/3/2021 | | | | 27.6 | <1 | 1230 | 5170 | <1 |
| 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 | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.0016 | 0.0016 | | | | | |
| 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) |

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) | 0.0016 | 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) | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.00052 | 0.00052 | | | | | |
| 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 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | 0.00052 | 0.00052 | 0.00052 | | | |
| 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) | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) | 2.47 (D) | 5.4 (D) | |
| 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 (U) | | | | | 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 (U) | | | | | |
| 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 (U) |
| 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 (U) | 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 | | | | | 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 (U) | | |
| 3/2/2022 | | 0.379 (U) | 0.476 (U) | | | | 5.66 (U) | 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 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (U) | | | | |
| 10/25/2016 | | | | | 2.22 | | | |
| 11/30/2016 | 4.37 | 0.438 (U) | | 0.994 | 2.01 | | | |
| 2/15/2017 | 2.21 | 0.3 (U) | | 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 | 22.38 | 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 | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) | 0.029 | | | | | |
| 9/27/2018 | | | | 0.12 (J) | 0.32 | 0.068 (J) | 0.32 (D) | |
| 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 (JD) | 0.044 (JD) | | 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 | 0.05 | <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 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | 0.029 | 0.029 | 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 | <0.1 | 0.32 | <0.1 | <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 | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.00027 | 0.00027 | | | | | |
| 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 |

Time Series

Constituent: Lead (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | 0.00027 | 0.00027 | 0.00027 | | | |
| 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 | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.00097 | 0.00097 | | | | | |
| 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 (J) | | | <0.025 | 0.014 (J) | 0.064 | 0.027 (J) | |
| 6/16/2020 | 0.096 (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 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) | 0.00097 | 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) |
| 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) | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 3.6E-05 | 3.6E-05 | | | | | |
| 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 |
| 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 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | 3.6E-05 | 3.6E-05 | 3.6E-05 | | | |
| 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 | | | |
| 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 | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.0019 | 0.0019 | | | | | |
| 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 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | 0.0019 | 0.0019 | 0.0019 | | | |
| 11/6/2018 | | <0.01 | | | <0.01 | | | |
| 11/7/2018 | <0.01 (D) | | <0.01 (D) | <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 | | | |

Time Series

Constituent: pH, field (Std. Units) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | 6.1 | 6.98 | 6.38 | |
| 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 | | | | | | | |
| 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 | | | | 6.53 | | | |
| 1/4/2021 | | | | | 6.66 | | | |
| 3/3/2021 | | 5.81 | 5.06 | | | | | 5.07 |
| 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 | | | | |
| 9/20/2022 | 7.07 | | | | | 7.29 | | |
| 9/21/2022 | | 4.95 | 5.14 | 5.34 | 6.93 | | 6.27 | 4.97 |

Time Series

Constituent: pH, field (Std. Units) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | 6.81 | | | |
| 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 | | | | 5.13 | | | | |
| 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 (D) | 3.87 (D) |
| 12/5/2019 | | | | | | 4.17 (D) | | |
| 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 | 3.36 |
| 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 | 4.27 | | | |
| 9/20/2022 | | | | | | 4.47 | 5.14 | 3.63 |
| 9/21/2022 | 6.3 | 6.61 | 5.23 | 4.91 | 6.72 | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.0014 | 0.0014 | | | | | |
| 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 | <0.005 | | | | 0.0028 (J) | | | |
| 1/4/2021 | | | | | <0.005 | | | |
| 3/3/2021 | | <0.005 | <0.005 | | | | | <0.005 |
| 3/4/2021 | <0.005 | | | 0.00038 (J) | <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 | 0.00022 (J) |
| 3/3/2022 | | | | 0.00012 (J) | | | | |
| 9/20/2022 | <0.005 | | | | | <0.005 | | |
| 9/21/2022 | | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/22/2022 12:05 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) | 0.0014 | 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 | | | | | | <0.005 | | |
| 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 | 0.0021 | <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 | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) | 777 (D) | |
| 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 | | 122.5 (D) | | | 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 | | | | | | | |
| 6/16/2020 | 970 | | | | | | | |
| 10/12/2020 | | | | | | | | 19.3 |
| 10/13/2020 | | 32.3 | 27.6 | 92.3 | | | | |
| 10/14/2020 | | | | | | 510 | 904 | |
| 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 (M1) | 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 | | | | |
| 9/20/2022 | 820 | | | | | 320 | | |
| 9/21/2022 | | 39 | 29 | 52 | 100 | | 660 | 23 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | 312.5 (D) | | | |
| 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 | | | | | | | | 8.1 |
| 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 |
| 3/2/2021 | 1.2 | 97.5 | 8 | | | | | |
| 3/3/2021 | | | | 30.5 | 420 | 171 | <1 | 743 |
| 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 | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | | | | <0.001 |
| 9/26/2018 | | 0.00014 | 0.00014 | | | | | |
| 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 | | | | | | 7.6E-05 (J) | <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 | | | | <0.001 | | | | |
| 9/20/2022 | <0.001 | | | | | <0.001 | | |
| 9/21/2022 | | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | 6E-05 (J) | | | | |
| 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 | 7E-05 (J) | | | | |
| 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 | | | 0.00014 | 0.00014 | 0.00014 | | | |
| 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 | 6.6E-05 (J) | <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 | <0.001 |
| 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 | | 6.6E-05 (J) | <0.001 | | | |
| 9/20/2022 | | | | | | <0.001 | <0.001 | <0.001 |
| 9/21/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | | |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | | | |
| 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 | | | | |
| 9/20/2022 | 13000 | | | | | 3900 | | |
| 9/21/2022 | | 100 | 90 | 180 | 2100 | | 9400 | 110 |

Time Series

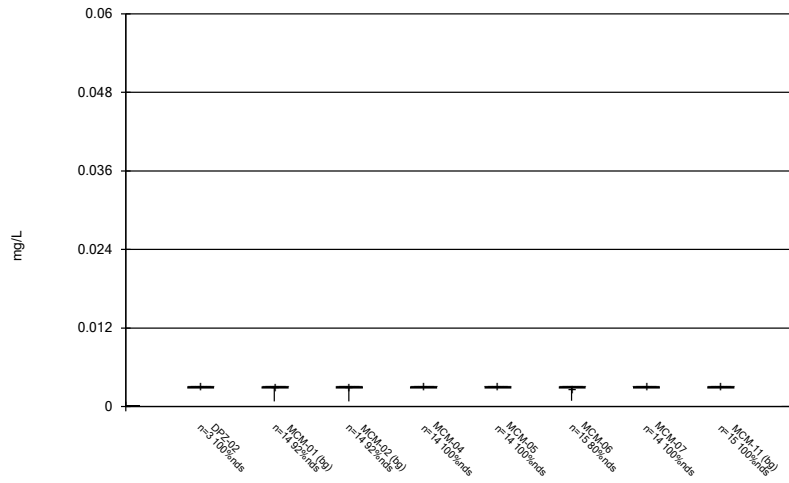
Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/22/2022 12:05 PM

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | 6920 | | | |
| 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 |
| 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 | | | |

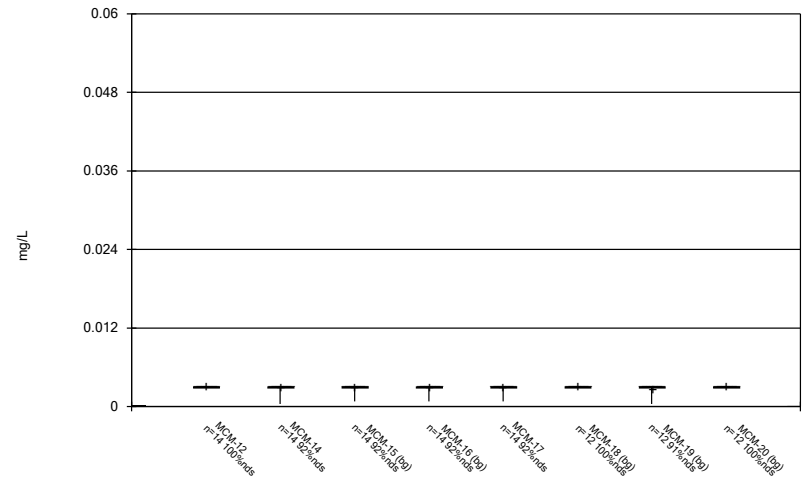
FIGURE B.

Box & Whiskers Plot



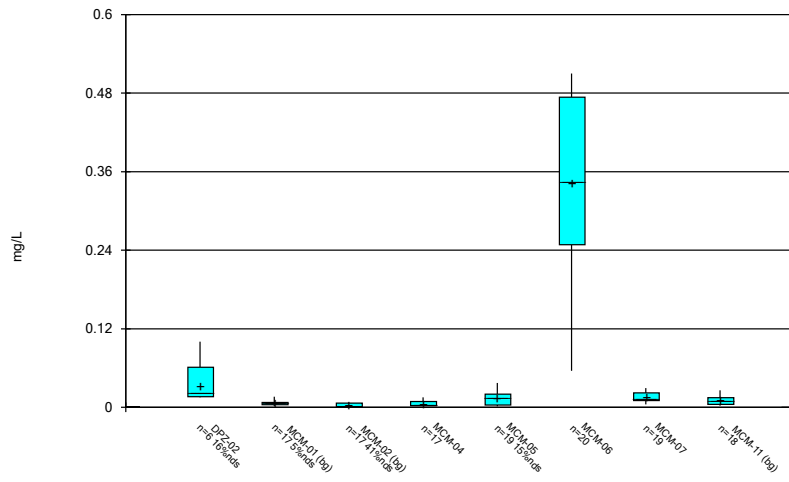
Constituent: Antimony Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



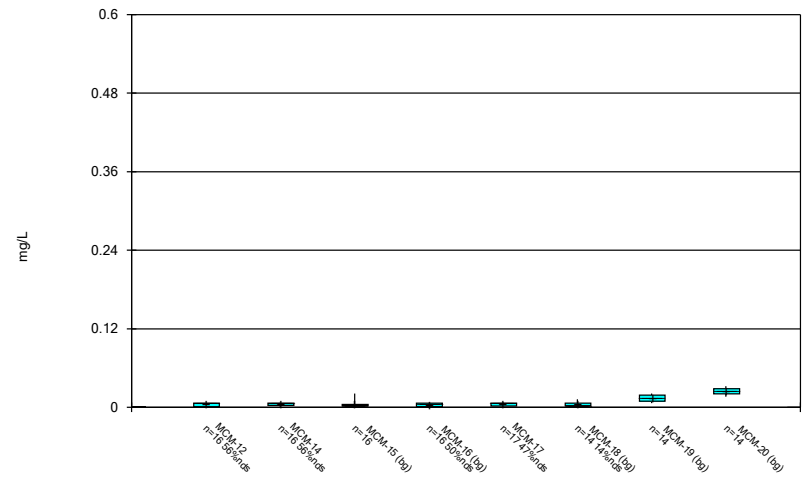
Constituent: Antimony Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



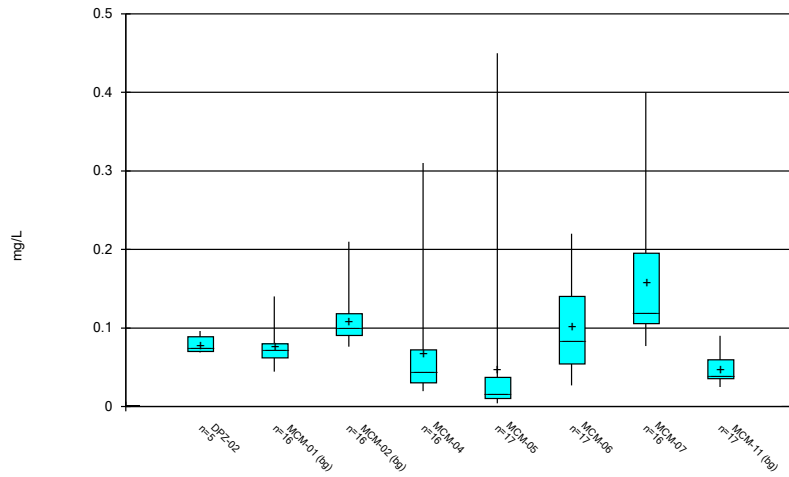
Constituent: Arsenic Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



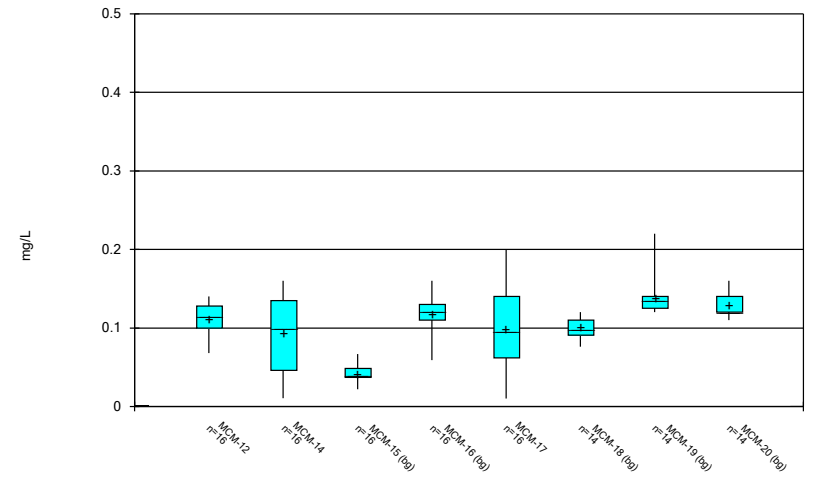
Constituent: Arsenic Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



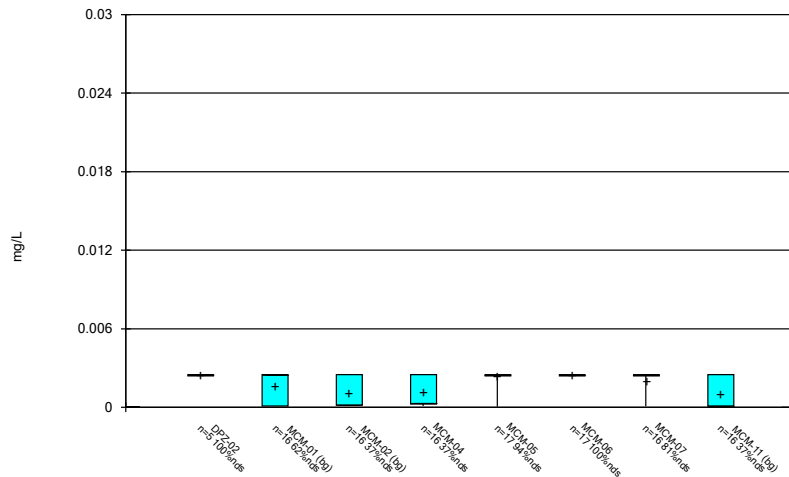
Constituent: Barium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



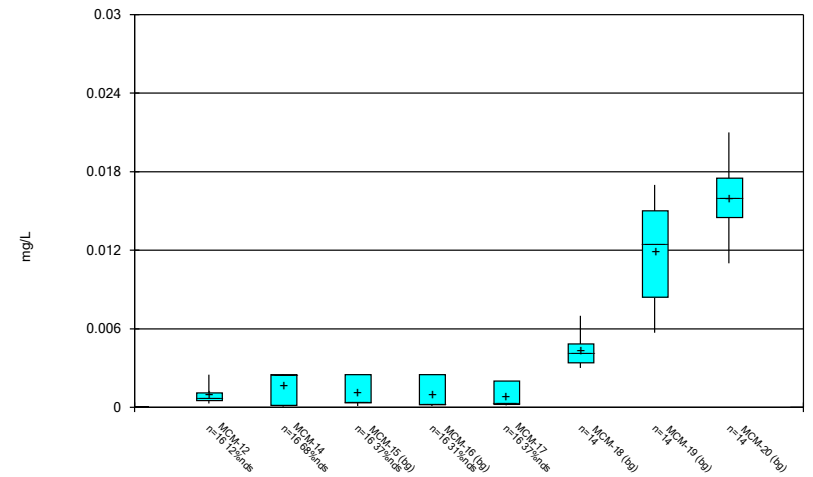
Constituent: Barium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



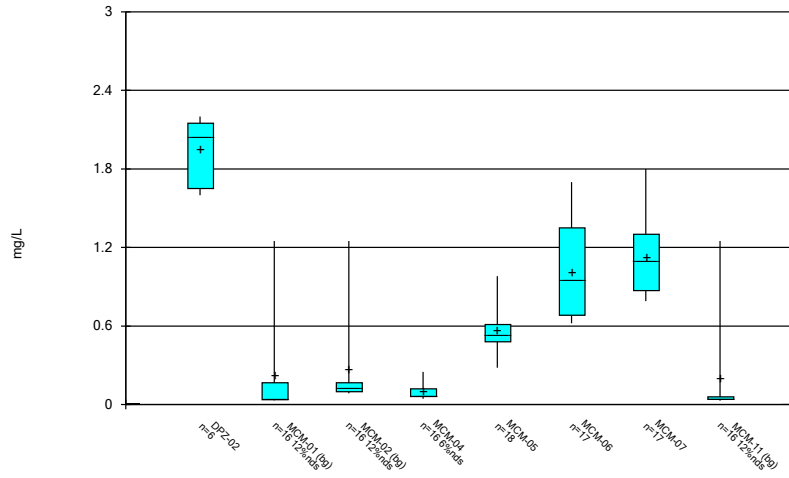
Constituent: Beryllium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



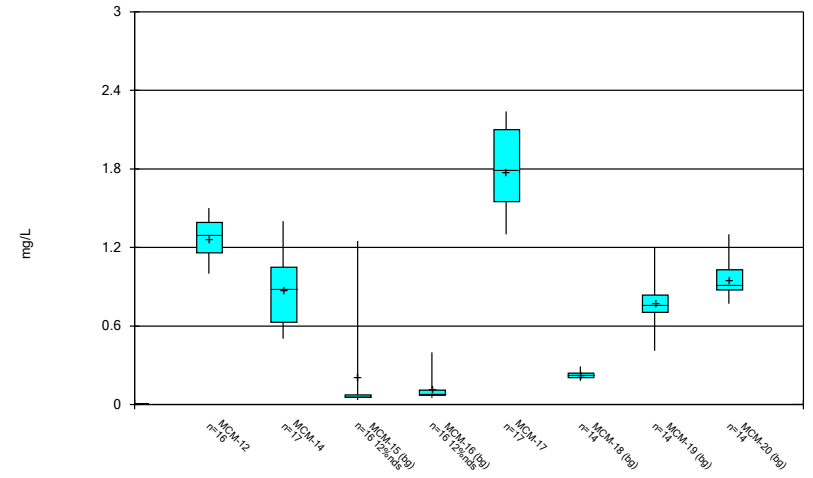
Constituent: Beryllium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



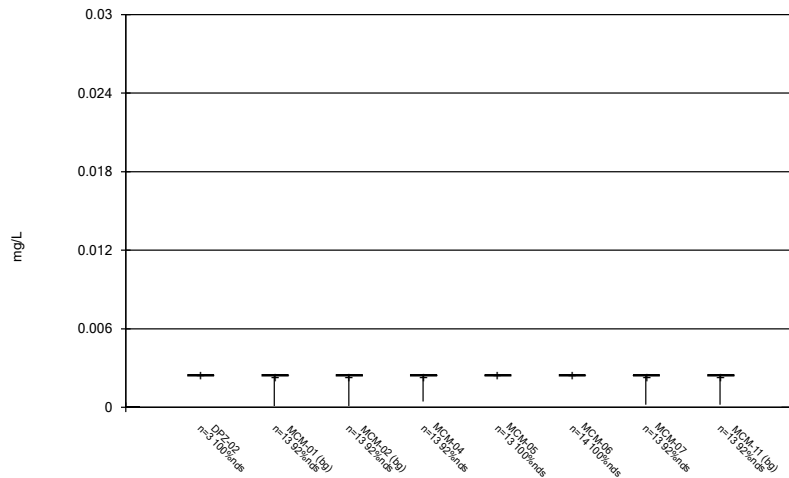
Constituent: Boron Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



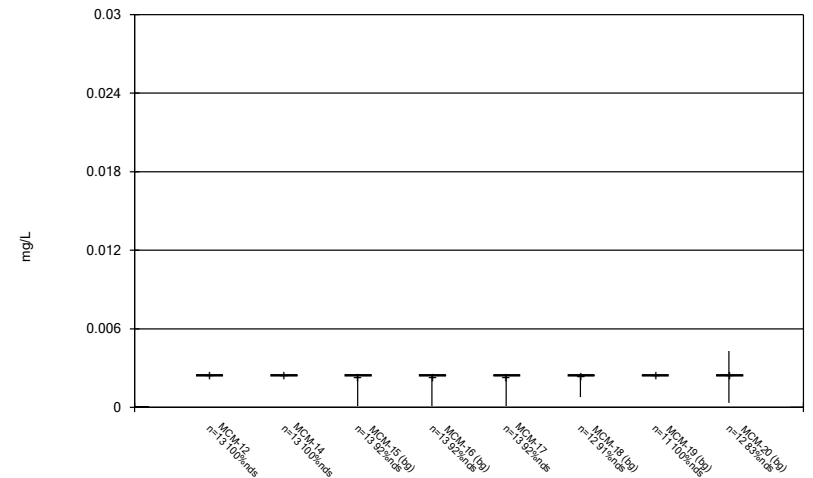
Constituent: Boron Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



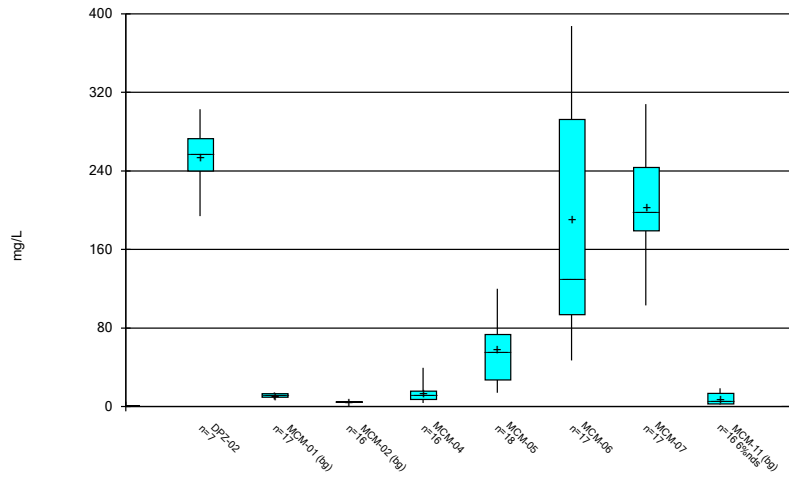
Constituent: Cadmium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



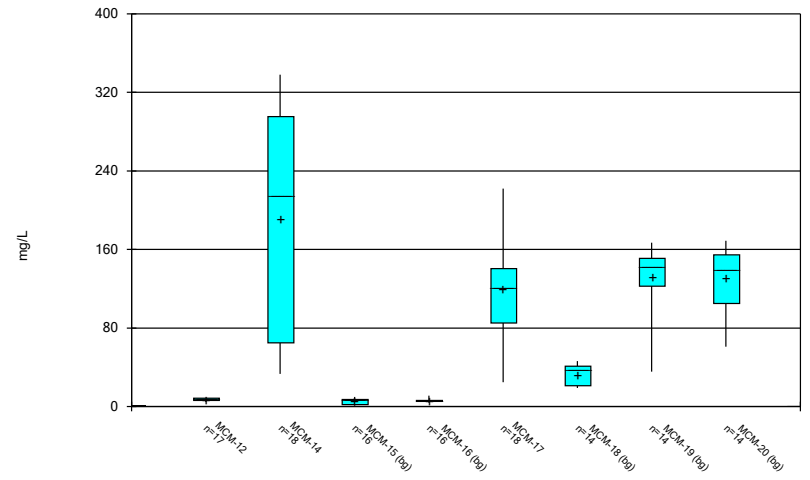
Constituent: Cadmium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



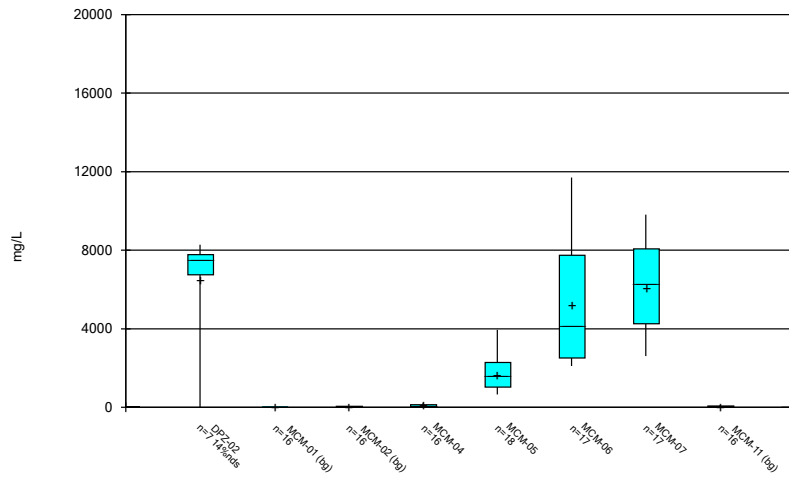
Constituent: Calcium Analysis Run 12/22/2022 12:06 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



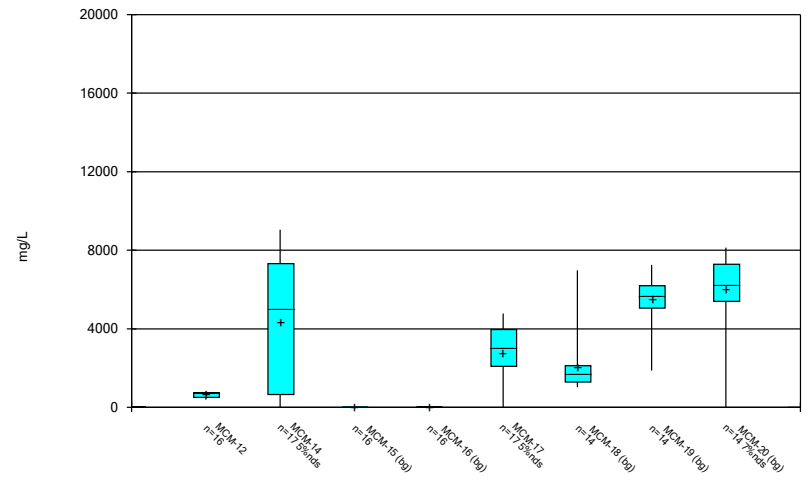
Constituent: Calcium Analysis Run 12/22/2022 12:06 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



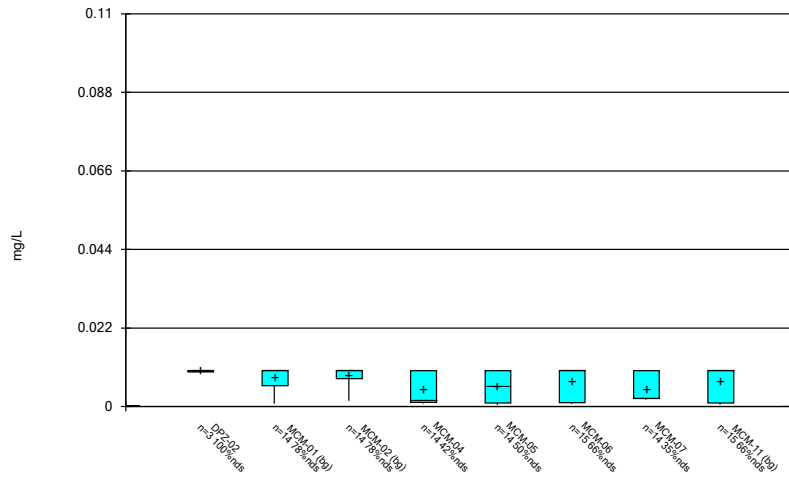
Constituent: Chloride Analysis Run 12/22/2022 12:06 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



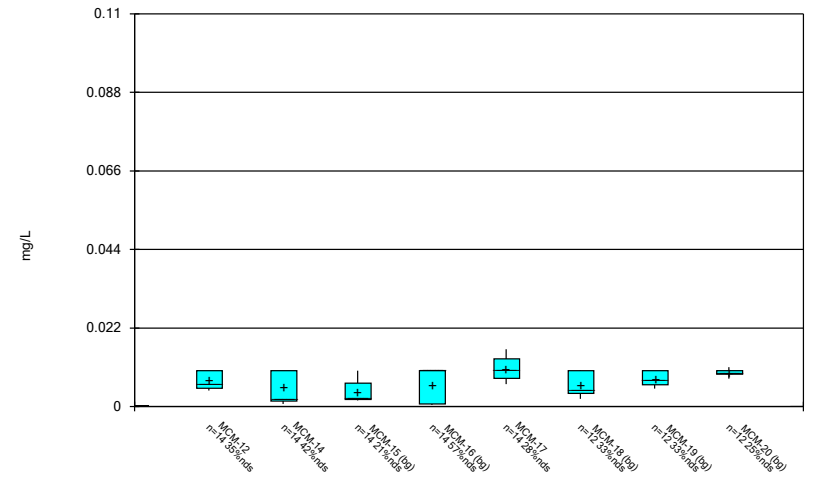
Constituent: Chloride Analysis Run 12/22/2022 12:06 PM
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



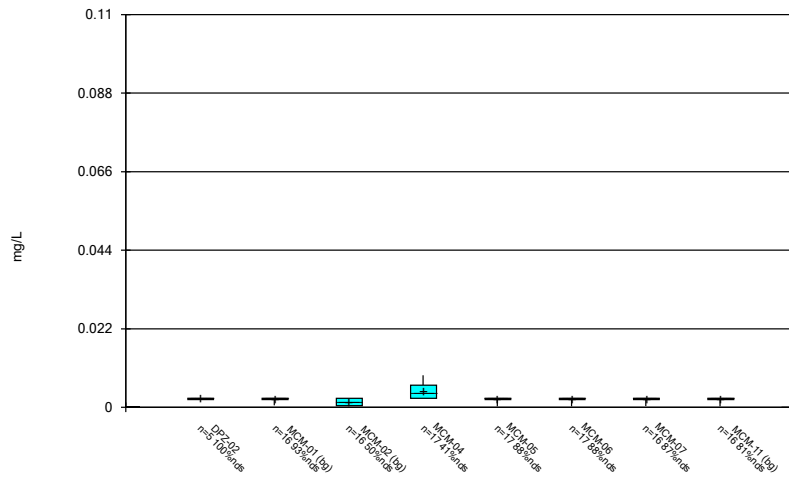
Constituent: Chromium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



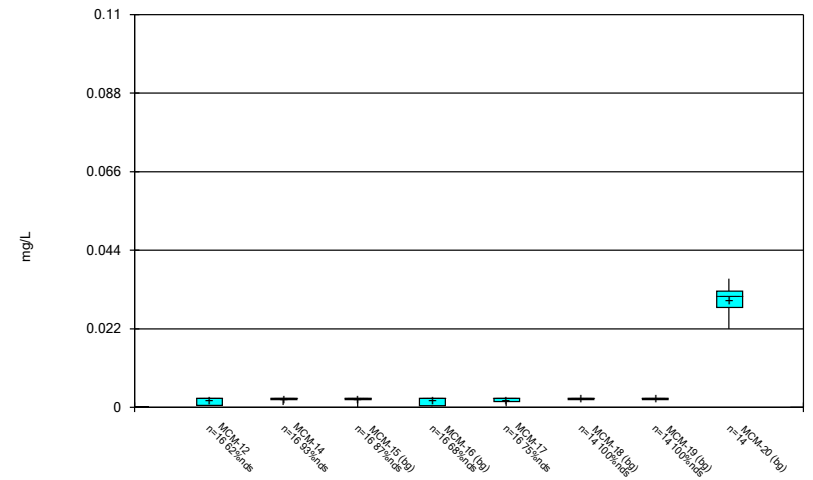
Constituent: Chromium Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



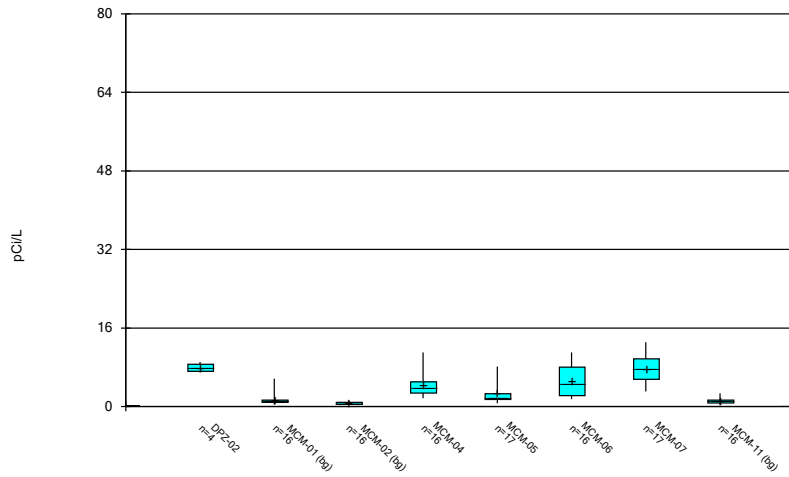
Constituent: Cobalt Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



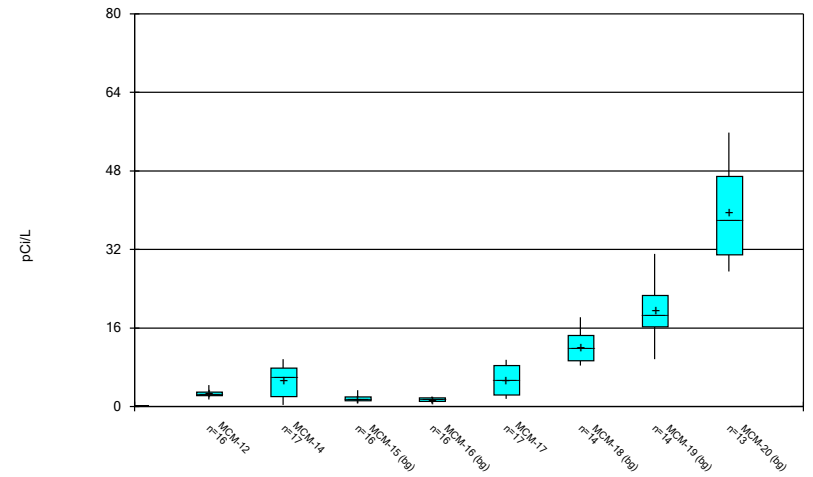
Constituent: Cobalt Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



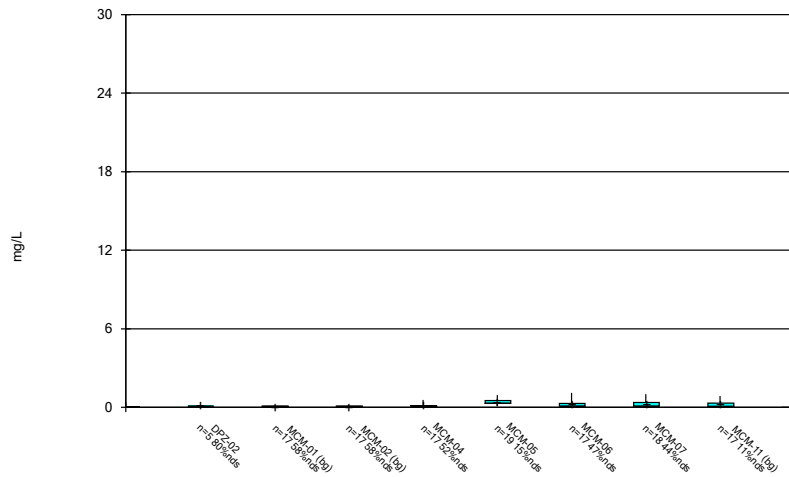
Constituent: Combined Radium 226 + 228 Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



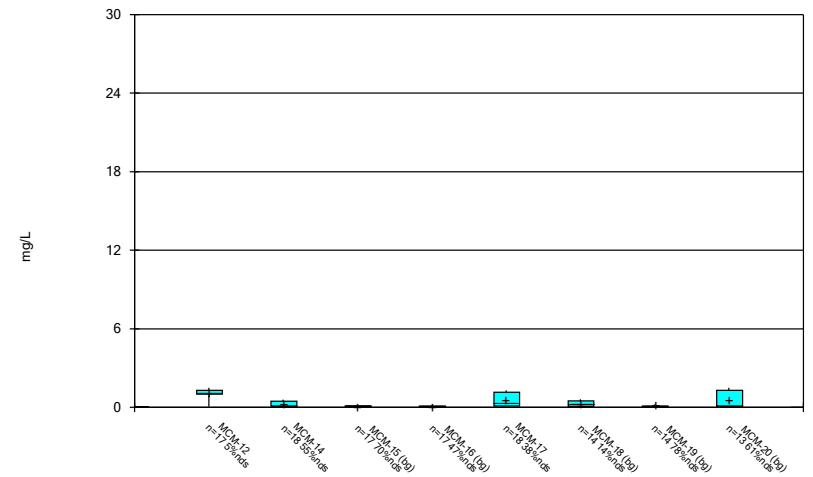
Constituent: Combined Radium 226 + 228 Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



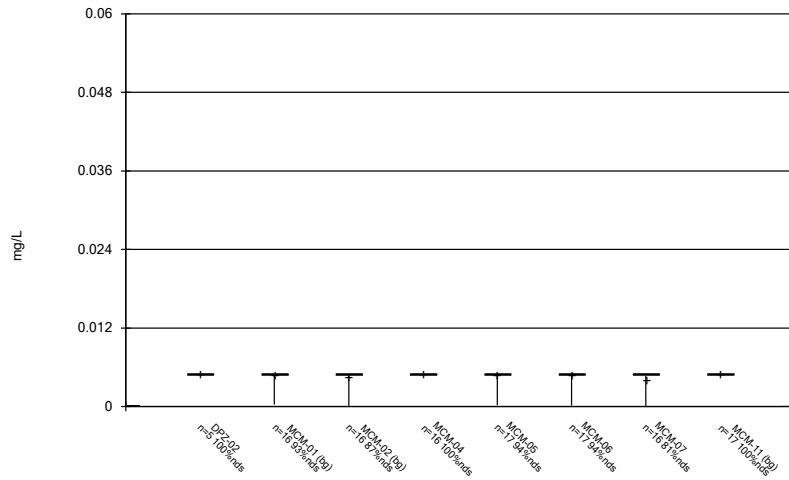
Constituent: Fluoride Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



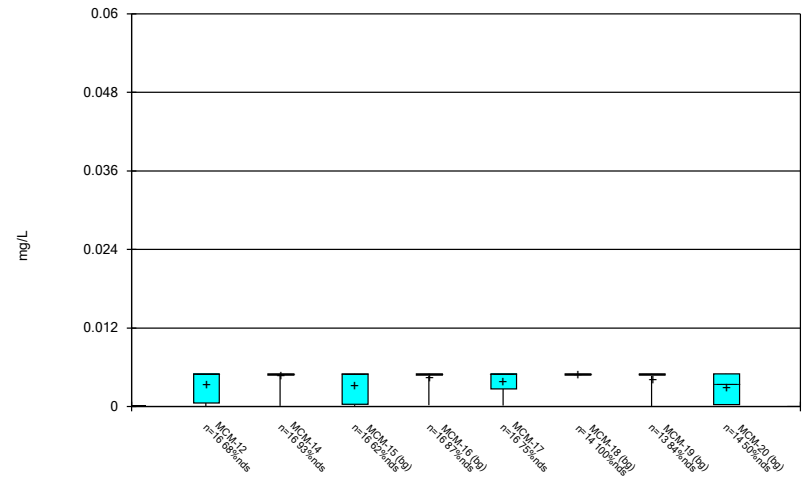
Constituent: Fluoride Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



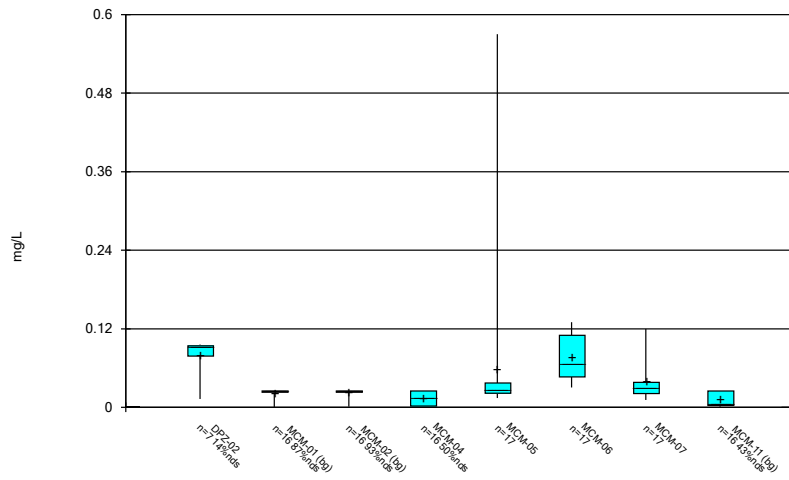
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



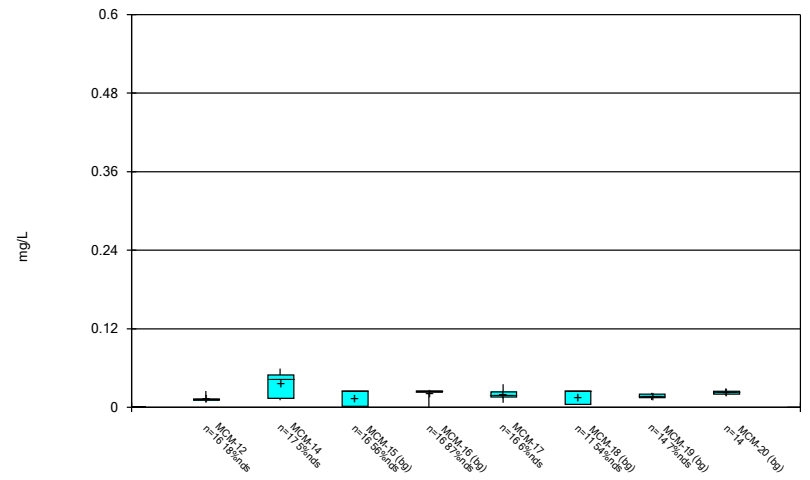
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



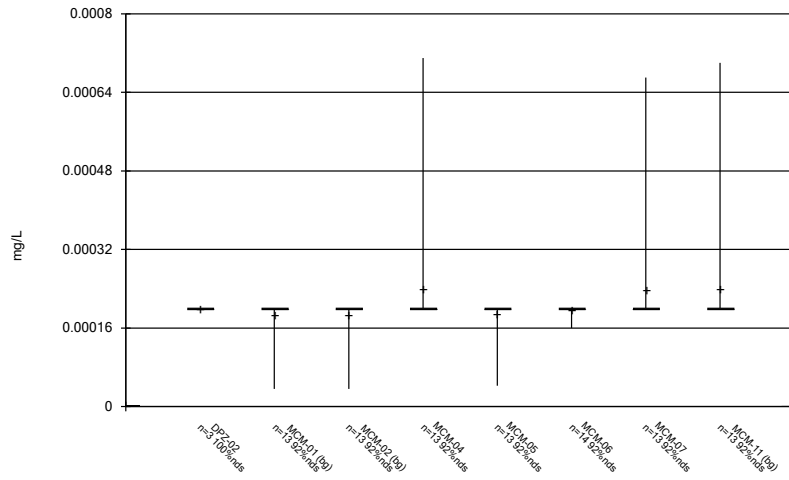
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



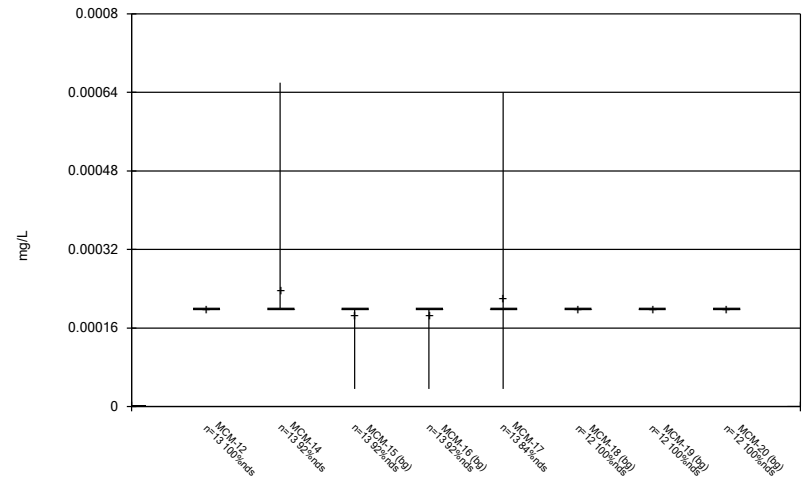
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



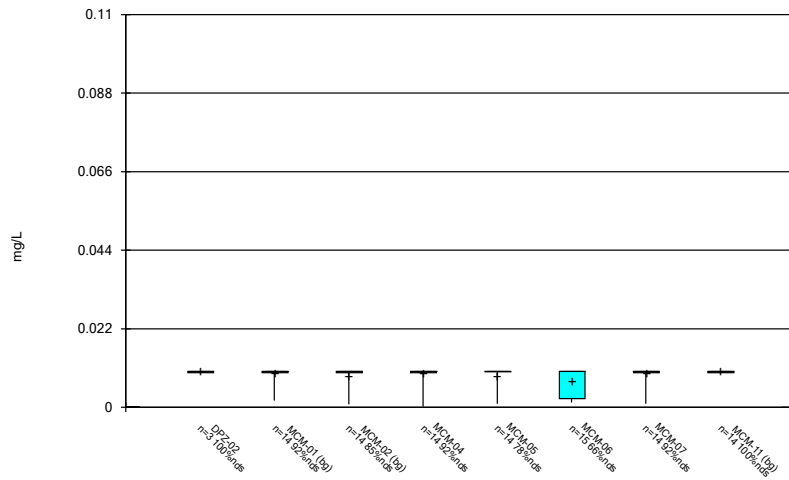
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Box & Whiskers Plot



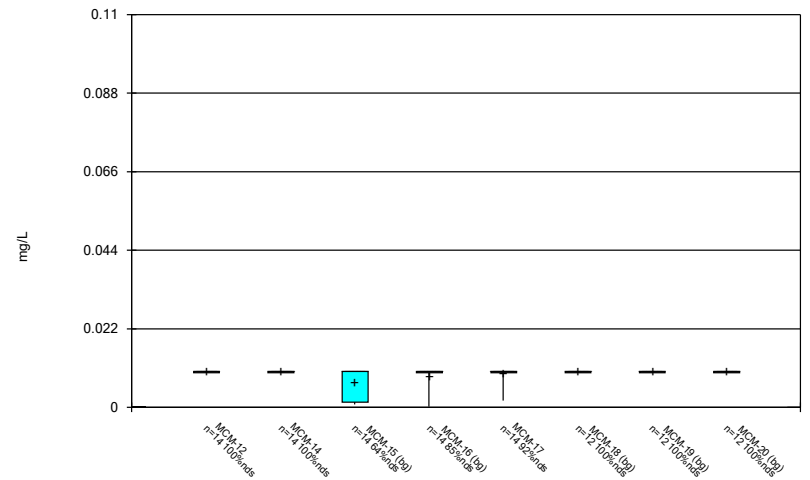
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



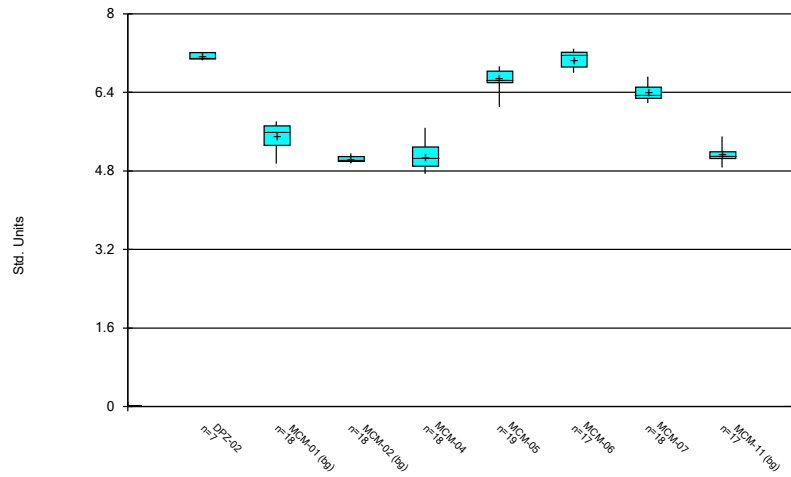
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



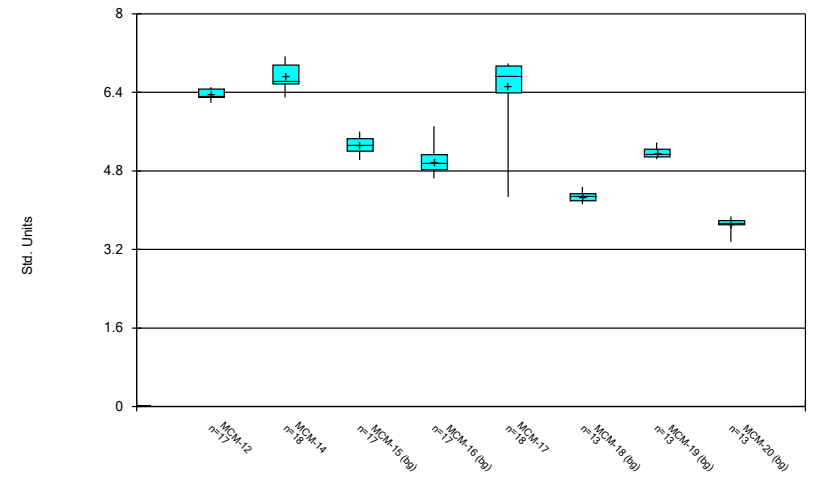
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



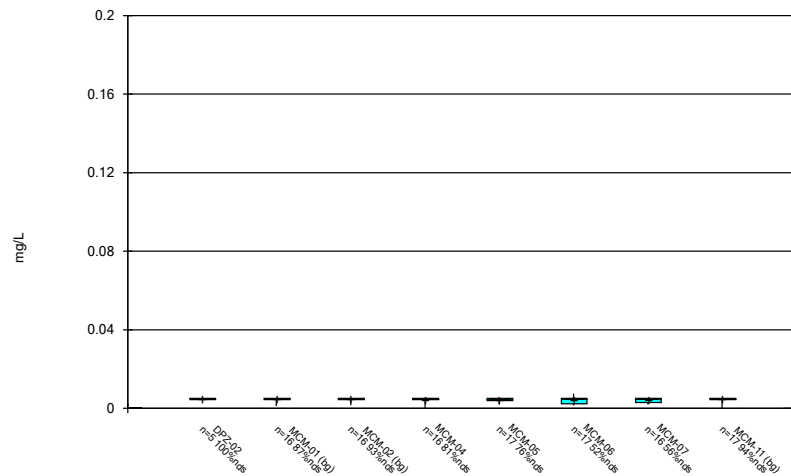
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



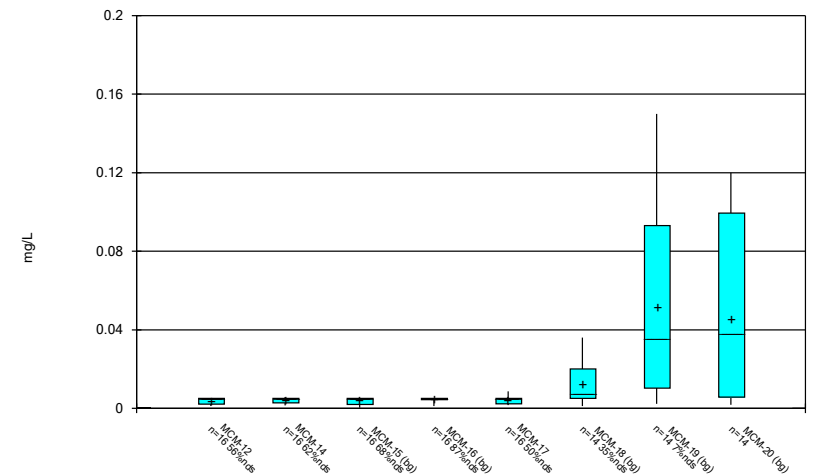
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



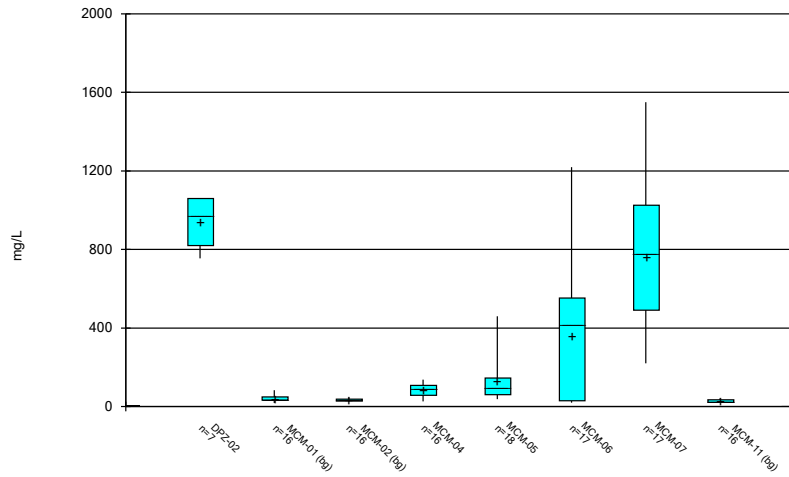
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



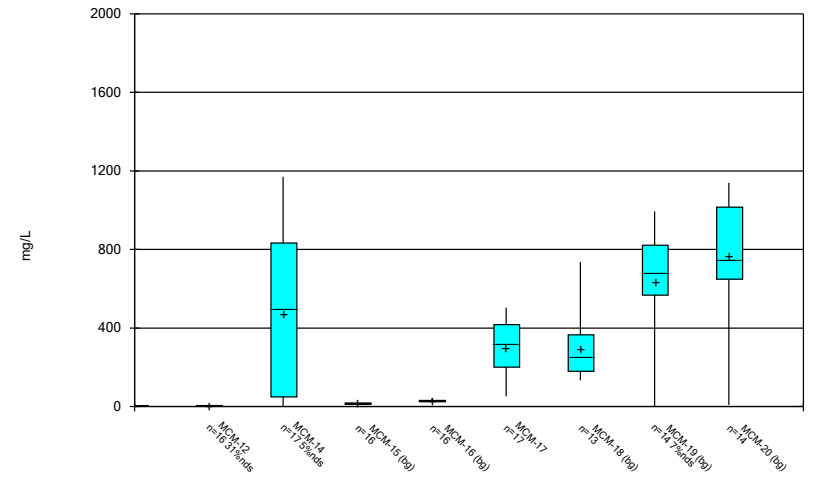
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



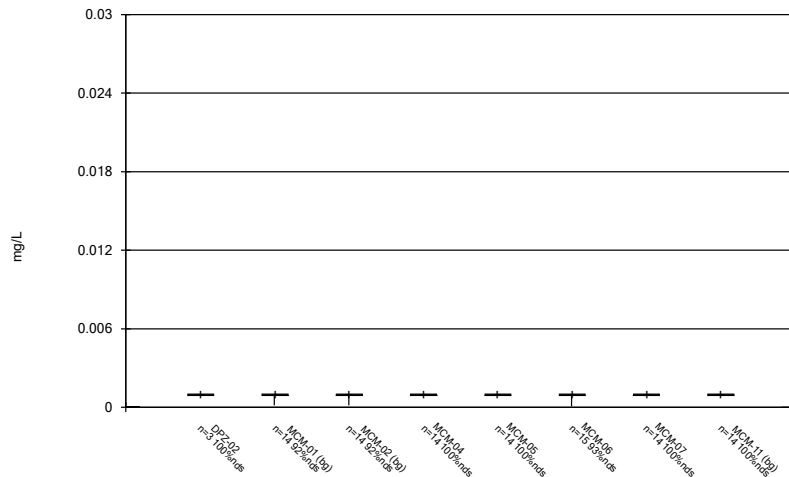
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



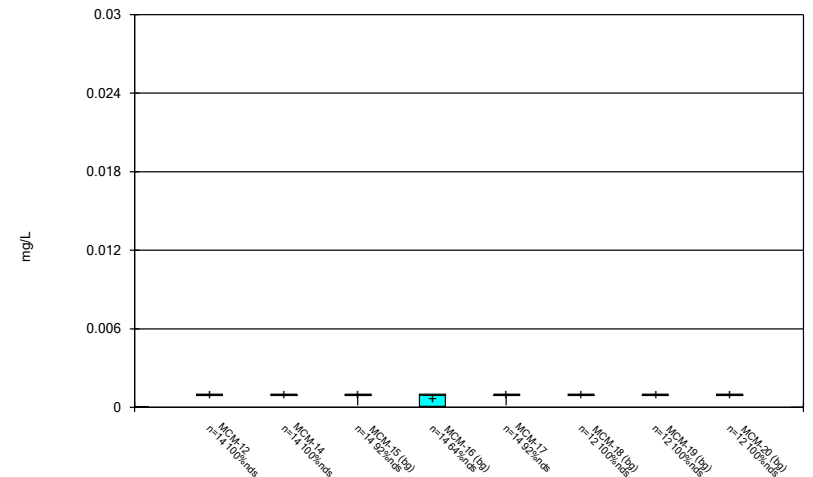
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



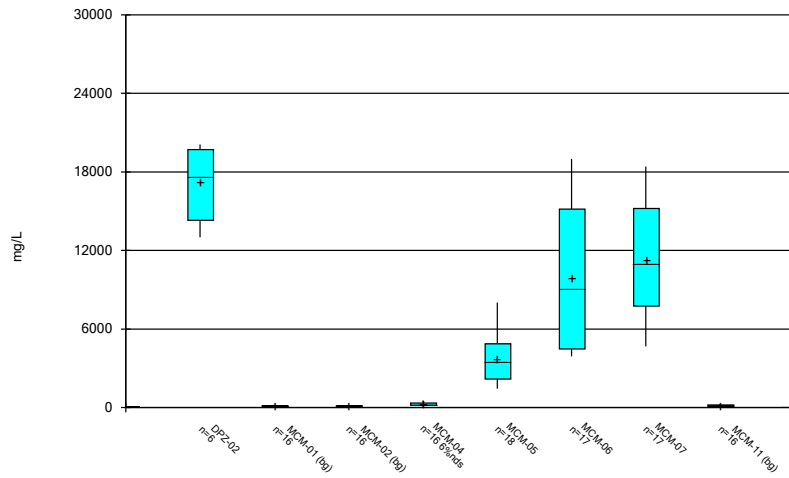
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



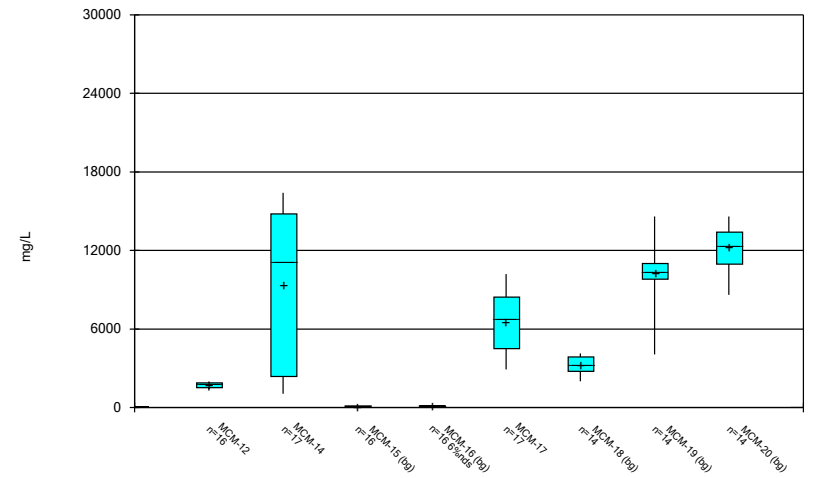
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 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/22/2022 12:06 PM
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

FIGURE C.

Outlier Summary

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/6/2022, 5:07 PM

| | MCM-19 Cadmium (mg/L) | MCM-20 Combined Radium 226 + 228 (pCi/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 | | | | | <0.025 (o) | |
| 1/21/2020 | | | | | <0.025 (o) | |
| 2/4/2020 | | | | | <0.025 (o) | |
| 2/13/2020 | | 76.3 (o) | | | <0.0063 (o) | |
| 9/20/2022 | 0.0083 (o) | | | 4.3 (o) | | |

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:15 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-17 | 1.3 | n/a | 9/21/2022 | 1.8 | Yes | 122 | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) | 1 of 2 | |
| Calcium (mg/L) | MCM-07 | 169 | n/a | 9/21/2022 | 190 | Yes | 123 | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) | 1 of 2 | |
| pH, field (Std. Units) | MCM-05 | 5.81 | 3.36 | 9/21/2022 | 6.93 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) | 1 of 2 | |
| pH, field (Std. Units) | MCM-06 | 5.81 | 3.36 | 9/20/2022 | 7.29 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) | 1 of 2 | |
| pH, field (Std. Units) | MCM-07 | 5.81 | 3.36 | 9/21/2022 | 6.27 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) | 1 of 2 | |
| pH, field (Std. Units) | MCM-12 | 5.81 | 3.36 | 9/21/2022 | 6.3 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) | 1 of 2 | |
| pH, field (Std. Units) | MCM-14 | 5.81 | 3.36 | 9/21/2022 | 6.61 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) | 1 of 2 | |
| pH, field (Std. Units) | MCM-17 | 5.81 | 3.36 | 9/21/2022 | 6.72 | Yes | 126 | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) | 1 of 2 | |

Interwell Prediction Limits - All Results

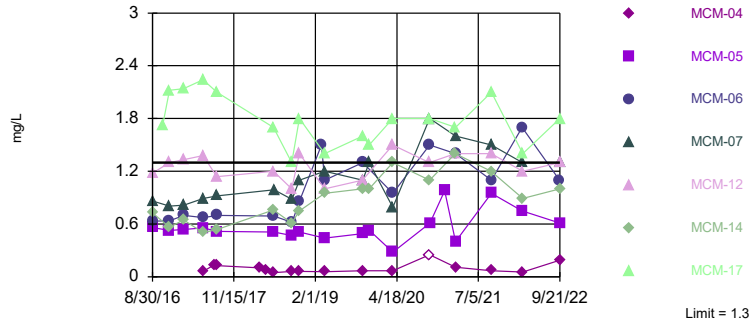
Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:15 PM

| 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 | 9/21/2022 | 0.19J | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-05 | 1.3 | n/a | 9/21/2022 | 0.61 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-06 | 1.3 | n/a | 9/20/2022 | 1.1 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-07 | 1.3 | n/a | 9/21/2022 | 1.3 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-12 | 1.3 | n/a | 9/21/2022 | 1.3 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-14 | 1.3 | n/a | 9/21/2022 | 1 | No | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | MCM-17 | 1.3 | n/a | 9/21/2022 | 1.8 | Yes | 122 | n/a | n/a | n/a | 8.197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-04 | 169 | n/a | 9/21/2022 | 7.8 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-05 | 169 | n/a | 9/21/2022 | 28 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-06 | 169 | n/a | 9/20/2022 | 47 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-07 | 169 | n/a | 9/21/2022 | 190 | Yes | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-12 | 169 | n/a | 9/21/2022 | 4.7 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-14 | 169 | n/a | 9/21/2022 | 74 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | MCM-17 | 169 | n/a | 9/21/2022 | 110 | No | 123 | n/a | n/a | n/a | 0.813 | n/a | n/a | 0.0001296 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-04 | 8130 | n/a | 9/21/2022 | 47 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-05 | 8130 | n/a | 9/21/2022 | 1100 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-06 | 8130 | n/a | 9/20/2022 | 2800 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-07 | 8130 | n/a | 9/21/2022 | 6400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-12 | 8130 | n/a | 9/21/2022 | 400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-14 | 8130 | n/a | 9/21/2022 | 3300 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | MCM-17 | 8130 | n/a | 9/21/2022 | 3300 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-04 | 1.5 | n/a | 9/21/2022 | 0.1ND | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-05 | 1.5 | n/a | 9/21/2022 | 0.48 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-06 | 1.5 | n/a | 9/20/2022 | 1.1J | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-07 | 1.5 | n/a | 9/21/2022 | 0.18 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-12 | 1.5 | n/a | 9/21/2022 | 1.3 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-14 | 1.5 | n/a | 9/21/2022 | 0.12 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | MCM-17 | 1.5 | n/a | 9/21/2022 | 0.78 | No | 126 | n/a | n/a | n/a | 50 | n/a | n/a | 0.0001243 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-04 | 5.81 | 3.36 | 9/21/2022 | 5.34 | No | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-05 | 5.81 | 3.36 | 9/21/2022 | 6.93 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-06 | 5.81 | 3.36 | 9/20/2022 | 7.29 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-07 | 5.81 | 3.36 | 9/21/2022 | 6.27 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-12 | 5.81 | 3.36 | 9/21/2022 | 6.3 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-14 | 5.81 | 3.36 | 9/21/2022 | 6.61 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| pH, field (Std. Units) | MCM-17 | 5.81 | 3.36 | 9/21/2022 | 6.72 | Yes | 126 | n/a | n/a | n/a | 0 | n/a | n/a | 0.0002486 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-04 | 1140 | n/a | 9/21/2022 | 52 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-05 | 1140 | n/a | 9/21/2022 | 100 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-06 | 1140 | n/a | 9/20/2022 | 320 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-07 | 1140 | n/a | 9/21/2022 | 660 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-12 | 1140 | n/a | 9/21/2022 | 0.5ND | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-14 | 1140 | n/a | 9/21/2022 | 270 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | MCM-17 | 1140 | n/a | 9/21/2022 | 330 | No | 121 | n/a | n/a | n/a | 0.8264 | n/a | n/a | 0.0001331 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-04 | 14600 | n/a | 9/21/2022 | 180 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-05 | 14600 | n/a | 9/21/2022 | 2100 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-06 | 14600 | n/a | 9/20/2022 | 3900 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-07 | 14600 | n/a | 9/21/2022 | 9400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-12 | 14600 | n/a | 9/21/2022 | 1300 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-14 | 14600 | n/a | 9/21/2022 | 7400 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | MCM-17 | 14600 | n/a | 9/21/2022 | 6200 | No | 122 | n/a | n/a | n/a | 0.8197 | n/a | n/a | 0.0001314 | NP Inter (normality) 1 of 2 |

Exceeds Limit: MCM-17

Prediction Limit

Interwell Non-parametric



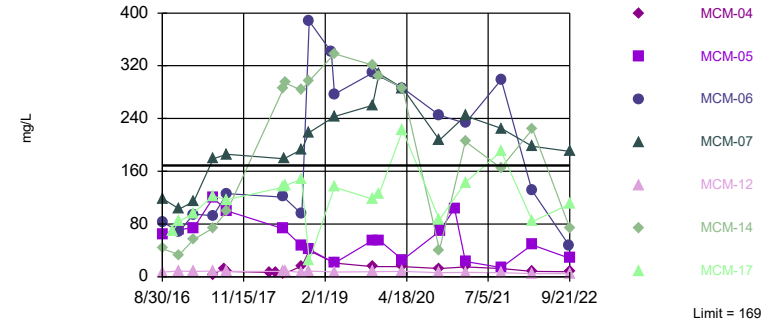
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 122 background values. 8.197% NDs. Annual per-constituent alpha = 0.001838. Individual comparison alpha = 0.0001314 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Exceeds Limit: MCM-07

Prediction Limit

Interwell Non-parametric



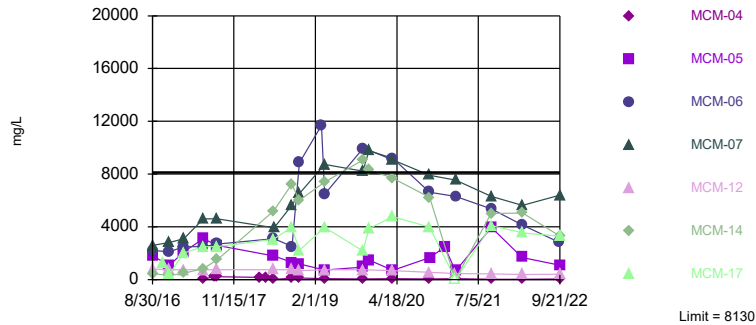
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 123 background values. 0.813% NDs. Annual per-constituent alpha = 0.001813. Individual comparison alpha = 0.0001296 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Within Limit

Prediction Limit

Interwell Non-parametric



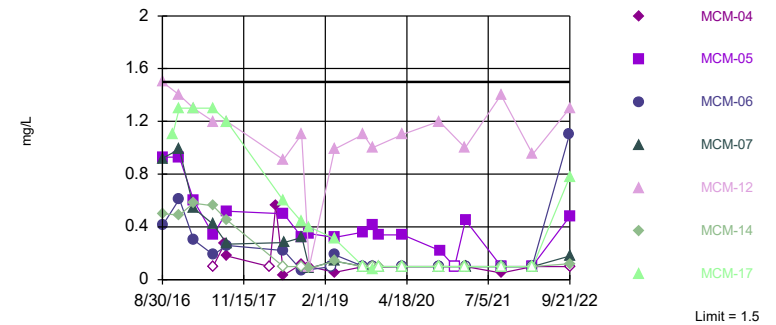
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 122 background values. 0.8197% NDs. Annual per-constituent alpha = 0.001838. Individual comparison alpha = 0.0001314 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Within Limit

Prediction Limit

Interwell Non-parametric

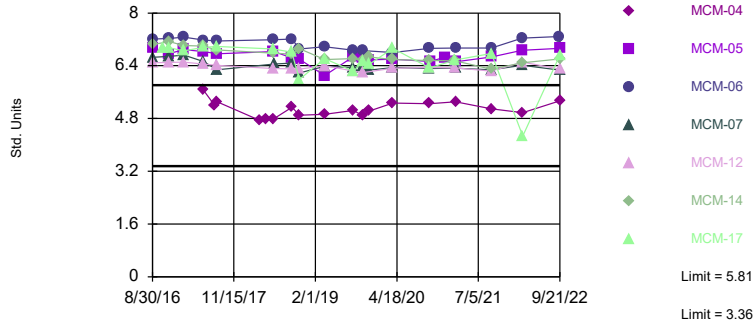


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 126 background values. 50% NDs. Annual per-constituent alpha = 0.001739. Individual comparison alpha = 0.0001243 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Exceeds Limits: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-17

Prediction Limit
Interwell Non-parametric



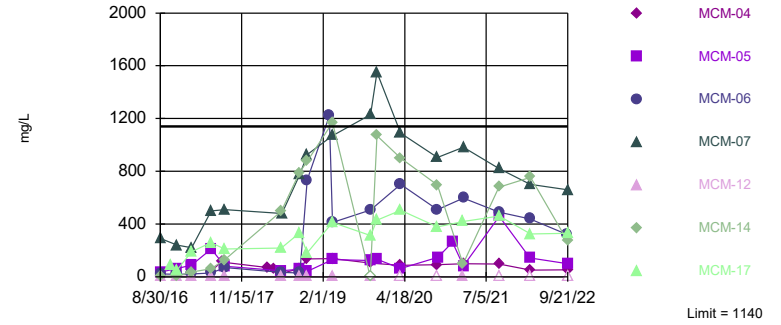
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 126 background values. Annual per-constituent alpha = 0.003478. Individual comparison alpha = 0.0002486 (1 of 2). Comparing 7 points to limit.

Constituent: pH, field Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



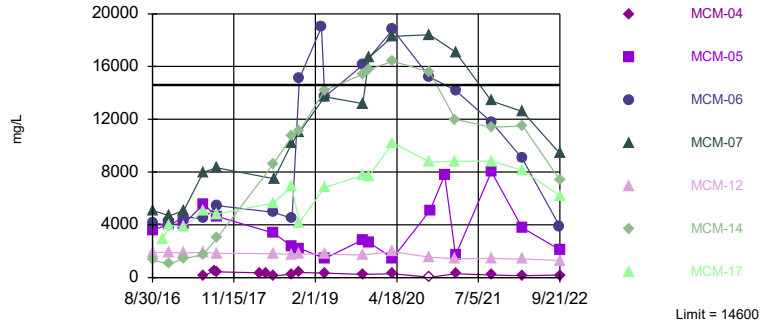
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 121 background values. 0.8264% NDs. Annual per-constituent alpha = 0.001862. Individual comparison alpha = 0.0001331 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

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 122 background values. 0.8197% NDs. Annual per-constituent alpha = 0.001838. Individual comparison alpha = 0.0001314 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 12/8/2022 4:13 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|------------|-------------|--------|-------------|--------|----------|--------|--------|--------|-------------|
| 8/30/2016 | 0.0325 (J) | 1.18 | 0.0972 (J) | 0.726 | | | | | |
| 8/31/2016 | | | | | 0.56 | 0.632 | 0.863 | | |
| 10/25/2016 | | | | | | | | 1.73 | |
| 11/30/2016 | 0.0334 (J) | 1.3 | 0.0964 | 0.565 | 0.529 | 0.637 | 0.804 | 2.12 | |
| 2/15/2017 | 0.254 | 1.33 | 0.398 | 0.647 | | | | 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 | 0.088 (J) | 1.3 | | | | 1.8 | 0.058 (J) |
| 3/28/2020 | | | | | 0.28 (J) | 0.95 | 0.79 | | |
| 10/12/2020 | | 1.3 | | | | | | | <0.5 |
| 10/13/2020 | <0.5 | | <0.5 | 1.1 | | | | 1.8 | |
| 10/14/2020 | | | | | | 1.5 | 1.8 | | |
| 10/15/2020 | | | | | 0.61 | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|-----------|-------------|----------|-------------|----------|----------|---------|---------|----------|-------------|
| 1/4/2021 | | | | | 0.98 | | | | |
| 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) | | |
| 9/13/2021 | | 1.4 (M1) | | 1.2 | | | | | |
| 9/14/2021 | 0.079 (J) | | 0.071 (J) | | 0.95 (J) | 1.1 | 1.5 | 2.1 (M1) | 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 | 0.057 | 0.89 (J) | | | | 1.4 | |
| 9/20/2022 | | | | | | 1.1 | | | |
| 9/21/2022 | 0.35 (J) | 1.3 | 0.12 (J) | 1 | 0.61 | | 1.3 | 1.8 | 0.17 (J) |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-19 (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 | | | | 1.1 | 0.84 | 0.27 |
| 11/18/2019 | | | | | | 0.29 (J) |
| 11/19/2019 | | | | 1.3 | 0.83 | |
| 11/20/2019 | | | | | | |
| 11/21/2019 | | | | | | |
| 12/4/2019 | | | | 0.81 | 0.68 | |
| 12/5/2019 | | | | | | 0.23 |
| 12/17/2019 | | | | | 0.57 | |
| 12/18/2019 | | | | 0.77 | | 0.23 |
| 1/8/2020 | | | | 0.9 | 0.73 | |
| 1/9/2020 | | | | | | 0.2 |
| 1/21/2020 | | | | 0.94 | 0.75 | 0.24 (J) |
| 2/4/2020 | | | | 0.96 (J) | 0.79 (J) | 0.24 (J) |
| 2/13/2020 | | | | 0.88 | 0.74 | 0.22 |
| 3/26/2020 | | | | | | |
| 3/27/2020 | 0.17 (J) | | 0.076 (J) | 0.94 | 0.96 | 0.24 (J) |
| 3/28/2020 | | 0.067 (J) | | | | |
| 10/12/2020 | | | | | | 0.24 (J) |
| 10/13/2020 | <0.5 | <0.5 | <0.5 | 1.1 | 0.73 | |
| 10/14/2020 | | | | | | |
| 10/15/2020 | | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-19 (bg) | MCM-18 (bg) |
|-----------|-------------|----------|-------------|-------------|-------------|-------------|
| 1/4/2021 | | | | | | |
| 3/2/2021 | | | <0.5 | | | |
| 3/3/2021 | <0.5 | | | 0.91 (J) | 0.79 (J) | 0.21 (J) |
| 3/4/2021 | | 0.11 (J) | | | | |
| 9/13/2021 | | | | | | |
| 9/14/2021 | 0.093 (J) | 0.07 (J) | 0.068 (J) | 0.91 (J) | 1.2 | 0.2 (J) |
| 3/1/2022 | | | | 0.87 (J) | 0.41 (J) | |
| 3/2/2022 | 0.086 | | 0.054 | | | 0.23 (J) |
| 3/3/2022 | | 0.053 | | | | |
| 9/20/2022 | | | | 0.9 | 0.77 | 0.18 (J) |
| 9/21/2022 | 0.23 (J) | 0.19 (J) | 0.14 (J) | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|------------|-------------|--------|-------------|--------|----------|-----------|--------|--------|-------------|
| 8/30/2016 | 7.3 | 7.05 | 4.02 | 42.8 | | | | | |
| 8/31/2016 | | | | | 65 | 82.8 | 119 | | |
| 10/25/2016 | | | | | | | | 69.4 | |
| 11/30/2016 | 10.8 | 8.69 | 4.87 | 33.2 | 71.7 | 68.7 | 103 | 83.9 | |
| 2/15/2017 | 14.3 | 8.34 | 6.61 | 56.1 | | | | 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 (D) |
| 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 | 387.5 (D) | | | |
| 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 (D) |
| 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 | 5.4 | 286 | | | | 222 | 3.3 |
| 3/28/2020 | | | | | 25.8 | 286 | 286 | | |
| 10/12/2020 | | 6.1 | | | | | | | 2.8 |
| 10/13/2020 | 9.8 | | 5.7 | 40.9 | | | | 86.4 | |
| 10/14/2020 | | | | | | 245 | 207 | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|------------|-------------|--------|-------------|--------|--------|--------|--------|--------|-------------|
| 10/15/2020 | | | | | 69.1 | | | | |
| 1/4/2021 | | | | | 104 | | | | |
| 3/3/2021 | 14 | | | | | | | | |
| 3/4/2021 | | 6.5 | 11.2 | 205 | 23.4 | 233 | 244 | 143 | 2.1 |
| 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 | 5.4 | 224 | | | | 84 | |
| 9/20/2022 | | | | | | 47 | | | |
| 9/21/2022 | 9.2 | 4.7 | 4.6 | 74 | 28 | | 190 | 110 | 7.6 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-19 (bg) | MCM-18 (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 | | | | 158 | 46.2 | 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 | | | | 167 | 40.1 | 152 |
| 2/4/2020 | | | | 142 | 36.2 | 139 |
| 2/13/2020 | | | | 148 | 38.9 | 146 |
| 3/26/2020 | | | | | | |
| 3/27/2020 | 4.9 | | 5.9 | 122 | 23.2 | 113 |
| 3/28/2020 | | 15.5 | | | | |
| 10/12/2020 | | | | | 19.1 | |
| 10/13/2020 | 3.8 | 12.5 | 0.83 | 125 | | 128 |
| 10/14/2020 | | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-19 (bg) | MCM-18 (bg) | MCM-20 (bg) |
|------------|-------------|--------|-------------|-------------|-------------|-------------|
| 10/15/2020 | | | | | | |
| 1/4/2021 | | | | | | |
| 3/3/2021 | 4 | | | | | |
| 3/4/2021 | | 15.1 | 1.4 | 123 | 26 | 110 |
| 9/13/2021 | | | | | | |
| 9/14/2021 | 4.2 | 12.5 | 6.7 | 93.6 | 18.8 | 61.1 |
| 3/1/2022 | | | | 35.5 | | 99.8 |
| 3/2/2022 | 4.1 | | 7.2 | | 22.3 | |
| 3/3/2022 | | 8 | | | | |
| 9/20/2022 | | | | 150 | 20 | 100 |
| 9/21/2022 | 4.3 | 7.8 | 0.83 | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|------------|-------------|---------|-------------|--------|---------|----------|----------|------------|-------------|
| 8/30/2016 | 9.7 | 800 | 26 | 450 | | | | | |
| 8/31/2016 | | | | | 1800 | 2200 | 2600 | | |
| 10/25/2016 | | | | | | | | 1300 | |
| 11/30/2016 | 19 | 760 | 27 | 310 | 1100 | 2100 | 2800 | 400 | |
| 2/15/2017 | 21 | 740 | 30 | 490 | | | | 2000 | |
| 2/16/2017 | | | | | 2100 | 2500 | 3100 | | |
| 5/31/2017 | | 740 | | 820 | | | | 2500 | 98 |
| 6/1/2017 | 12 | | 27 | | | | | | |
| 6/2/2017 | | | | | 3100 | 2500 | 4600 | | |
| 8/2/2017 | | | | | | | | | 57 |
| 8/15/2017 | | 750 | | | | | | 2500 | 15 |
| 8/16/2017 | 14 | | | 1500 | | | | | |
| 8/17/2017 | | | 32 | | 2600 | 2700 | 4600 | | |
| 4/4/2018 | | | | | | | | | 69 |
| 4/5/2018 | | | | | | | | | |
| 5/8/2018 | | | | | | | | | 72.3 |
| 5/9/2018 | | | | | | | | | |
| 6/19/2018 | 24.4 | 760 | | 5180 | | | | 3050 | 17.3 |
| 6/20/2018 | | | 30 | | 1800 | 3100 | | | |
| 6/21/2018 | | | | | | | 3920 | | |
| 9/25/2018 | | 752 (D) | | 7220 | | | | | 31.3 |
| 9/26/2018 | 23.4 | | 28.4 | | | | | 3965 (D) | |
| 9/27/2018 | | | | | 1300 | 2510 (D) | 5660 (D) | | |
| 11/6/2018 | | | | 6020 | | | 6520 | 2230 | 9.8 |
| 11/7/2018 | 21.8 | 665 | 25.1 | | 1180 | 8860 | | | |
| 3/6/2019 | | | | | | 11700 | | | |
| 3/24/2019 | | 744 | | 7400 | 717 | 6470 | 8720 | 3960 | |
| 3/25/2019 | 19.4 | | 21.8 | | | | | | 12.9 |
| 10/15/2019 | | 744 | | 9050 | | | | | |
| 10/16/2019 | 21.4 | | 20 | | 941 (D) | | | 2181.5 (D) | 12.2 |
| 10/17/2019 | | | | | | 9930 | 8210 | | |
| 11/7/2019 | | | | | | | | | |
| 11/18/2019 | | | | | | | | | |
| 11/19/2019 | | | | | | | | | |
| 11/20/2019 | | | | | 1480 | | 9810 | | |
| 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 | | 675 | 23.6 | 7680 | | | | 4770 | 14.5 |
| 3/28/2020 | | | | | 693 | 9190 | 9070 | | |
| 10/12/2020 | | 552 | | | | | | | 13.9 |
| 10/13/2020 | 13.5 | | 23.3 | 6230 | | | | 3980 | |
| 10/14/2020 | | | | | | 6630 | 7910 | | |
| 10/15/2020 | | | | | 1660 | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|-----------|-------------|--------|-------------|--------|--------|--------|--------|--------|-------------|
| 1/4/2021 | | | | | 2460 | | | | |
| 3/2/2021 | | 459 | | <1 | | | | | |
| 3/3/2021 | 13.6 | | 27.6 | | | | | <1 | 9.4 |
| 3/4/2021 | | | | | 652 | 6310 | 7540 | | |
| 9/13/2021 | | 433 | | 5010 | | | | | |
| 9/14/2021 | 16.7 | | 30 | | 3940 | 5360 | 6300 | 4090 | 62.8 |
| 3/1/2022 | | | | | 1680 | 4150 | | | |
| 3/2/2022 | 13.4 | | | | | | 5630 | | 28.4 |
| 3/3/2022 | | 394 | 26.5 | 5040 | | | | 3540 | |
| 9/20/2022 | | | | | | 2800 | | | |
| 9/21/2022 | 17 | 400 | 17 | 3300 | 1100 | | 6400 | 3300 | 32 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-19 (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 | 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 | | | | 7880 | 6170 | 2360 |
| 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 | | | | 7170 | | 2090 |
| 1/8/2020 | | | | 6480 | 5070 | |
| 1/9/2020 | | | | | | 1750 |
| 1/21/2020 | | | | 6000 | 5010 | 1630 |
| 2/4/2020 | | | | 5700 | 5030 | 1760 |
| 2/13/2020 | | | | 7060 | 6140 | 1850 |
| 3/26/2020 | | | | | | |
| 3/27/2020 | 32.9 | | 14.1 | 7110 | 6870 | 1450 |
| 3/28/2020 | | 71.4 | | | | |
| 10/12/2020 | | | | | | 1340 |
| 10/13/2020 | 25.7 | 54.4 | 3.8 | 5980 | 5260 | |
| 10/14/2020 | | | | | | |
| 10/15/2020 | | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-19 (bg) | MCM-18 (bg) |
|-----------|-------------|--------|-------------|-------------|-------------|-------------|
| 1/4/2021 | | | | | | |
| 3/2/2021 | | | 4.2 | | | |
| 3/3/2021 | 20.5 | | | <1 | 5170 | 1230 |
| 3/4/2021 | | 69.6 | | | | |
| 9/13/2021 | | | | | | |
| 9/14/2021 | 21.8 | 28.5 | 13.6 | 5100 | 7250 | 1020 |
| 3/1/2022 | | | | 4900 | 1870 | |
| 3/2/2022 | 20.6 | | 14.3 | | | 1420 |
| 3/3/2022 | | 12.2 | | | | |
| 9/20/2022 | | | | 5700 | 6200 | 1200 |
| 9/21/2022 | 23 | 47 | 3.3 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) | | | 0.029 | | | | 0.44 (D) | |
| 9/27/2018 | | | | | 0.068 (J) | 0.32 (D) | 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 (JD) | | | 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 |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | <0.1 | 0.082 (J) |
| 3/4/2021 | | | | | <0.1 | <0.1 | 0.45 | | |
| 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 |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | 0.01 (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 | 0.029 | | 0.029 | | | |
| 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 (JD) | | | | | |
| 10/17/2019 | | | | | | |
| 11/7/2019 | | | | <0.1 | 1.4 | 0.49 |
| 11/18/2019 | | | | | | 0.52 |
| 11/19/2019 | | | | 0.033 (J) | 1.2 | |
| 11/20/2019 | | | | | | |
| 11/21/2019 | | | | | | |
| 12/4/2019 | | | | 0.22 (J) | 1.4 | |
| 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 | | | | 0.11 (J) | 0.53 | 0.13 (J) |
| 2/4/2020 | | | | <0.1 | <0.1 | 0.18 (J) |
| 2/13/2020 | | | | <0.1 | <0.1 | 0.077 (J) |
| 3/26/2020 | | | | | | |
| 3/27/2020 | <0.1 | | <0.1 | <0.1 | <0.1 | 0.06 (J) |
| 3/28/2020 | | <0.1 | | | | |
| 10/12/2020 | | | | | | 0.34 |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-19 (bg) | MCM-20 (bg) | MCM-18 (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 | <0.1 | 0.32 |
| 3/4/2021 | | <0.1 | | | | |
| 9/13/2021 | | | | | | |
| 9/14/2021 | <0.1 | 0.05 | <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 | | | | <0.1 | 4.3 (Jo) | 0.61 (J) |
| 9/21/2022 | <0.1 | <0.1 | <0.1 | | | |

Prediction Limit

Constituent: pH, field (Std. Units) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-16 (bg) | MCM-14 | MCM-12 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-02 (bg) |
|------------|-------------|-------------|--------|--------|--------|--------|--------|--------|-------------|
| 8/30/2016 | 5.66 | 5.18 | 7.04 | 6.49 | | | | | |
| 8/31/2016 | | | | | 6.93 | 7.21 | 6.66 | | |
| 10/25/2016 | | | | | | | | 6.95 | |
| 11/30/2016 | 5.36 | 4.96 | 7.13 | 6.5 | 6.77 | 7.23 | 6.69 | 6.95 | |
| 2/15/2017 | 5.25 | 5.13 | 7.02 | 6.51 | | | | 6.85 | |
| 2/16/2017 | | | | | 6.89 | 7.27 | 6.72 | | |
| 5/31/2017 | | | 7 | 6.45 | | | | 6.96 | 5.06 |
| 6/1/2017 | 5.59 | 4.99 | | | | | | | |
| 6/2/2017 | | | | | 6.83 | 7.18 | 6.53 | | |
| 8/2/2017 | | | | | | | | | 5 |
| 8/15/2017 | | | | 6.41 | | | | 6.99 | |
| 8/16/2017 | 5.58 | | 6.88 | | | | | | 4.98 |
| 8/17/2017 | | 4.68 | | | 6.76 | 7.15 | 6.28 | | |
| 4/4/2018 | | | | | | | | | |
| 4/5/2018 | | | | | | | | | 5.02 |
| 5/8/2018 | | | | | | | | | |
| 5/9/2018 | | | | | | | | | 4.96 |
| 6/19/2018 | 5.51 | | 6.78 | 6.32 | | | | 6.91 | 5.02 |
| 6/20/2018 | | 4.77 | | | 6.83 | 7.19 | | | |
| 6/21/2018 | | | | | | | 6.45 | | |
| 9/25/2018 | | | 6.75 | 6.31 | | | | | |
| 9/26/2018 | 5.32 | 4.65 | | | | | | 6.81 | 5.06 |
| 9/27/2018 | | | | | 6.64 | 7.21 | 6.48 | | |
| 11/6/2018 | | | 6.92 | | | | 6.18 | 5.99 | |
| 11/7/2018 | 5.72 | 4.99 | | 6.3 | 6.6 | 6.91 | | | 5.03 |
| 3/24/2019 | | | 6.59 | 6.4 | 6.1 | 6.98 | 6.38 | 6.62 | |
| 3/25/2019 | 5.75 | 5.13 | | | | | | | 5.08 |
| 8/26/2019 | | | 6.62 | | | | | | |
| 8/27/2019 | 5.58 | 4.88 | | 6.24 | | | | 6.23 | |
| 8/28/2019 | | | | | 6.69 | 6.87 | 6.35 | | 4.99 |
| 10/15/2019 | | | 6.58 | 6.19 | | | | | |
| 10/16/2019 | 5.72 | 4.89 | | | 6.64 | | | 6.54 | 4.98 |
| 10/17/2019 | | | | | | 6.86 | 6.4 | | |
| 11/7/2019 | | | | | | | | | |
| 11/18/2019 | | | | | | | | | |
| 11/19/2019 | | | | | | | | | 5.11 |
| 11/20/2019 | 5.77 | | | | 6.58 | | 6.27 | | |
| 11/21/2019 | | | 6.67 | | | | | 6.44 | |
| 12/4/2019 | | | | | | | | | |
| 12/5/2019 | | | | | | | | | |
| 1/8/2020 | | | | | | | | | |
| 1/9/2020 | | | | | | | | | |
| 1/21/2020 | | | | | | | | | |
| 2/4/2020 | | | | | | | | | |
| 2/13/2020 | | | | | | | | | |
| 3/26/2020 | 5.45 | | | | | | | | |
| 3/27/2020 | | 5.12 | 6.59 | 6.33 | | | | 6.93 | 5.12 |
| 3/28/2020 | | | | | 6.6 | 6.8 | 6.35 | | |
| 10/12/2020 | | | | 6.35 | | | | | |
| 10/13/2020 | 5.69 | 5.17 | 6.56 | | | | | 6.34 | 5.03 |
| 10/14/2020 | | | | | | 6.93 | 6.32 | | |
| 10/15/2020 | | | | | 6.53 | | | | |

Prediction Limit

Constituent: pH, field (Std. Units) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-16 (bg) | MCM-14 | MCM-12 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-02 (bg) |
|-----------|-------------|-------------|--------|--------|--------|--------|--------|--------|-------------|
| 1/4/2021 | | | | | 6.66 | | | | |
| 3/2/2021 | | | 6.55 | 6.34 | | | | | |
| 3/3/2021 | 5.81 | 5.71 | | | | | | 6.58 | 5.06 |
| 3/4/2021 | | | | | 6.52 | 6.94 | 6.33 | | |
| 9/13/2021 | | | 6.3 | 6.24 | | | | | |
| 9/14/2021 | 5.13 | 4.69 | | | 6.67 | 6.94 | 6.28 | 6.77 | 5.04 |
| 3/1/2022 | | | | | 6.87 | 7.24 | | | |
| 3/2/2022 | 5.32 | | | | | | 6.41 | | 5.16 |
| 3/3/2022 | | 4.88 | 6.49 | 6.51 | | | | 4.27 | |
| 9/20/2022 | | | | | | 7.29 | | | |
| 9/21/2022 | 4.95 | 4.91 | 6.61 | 6.3 | 6.93 | | 6.27 | 6.72 | 5.14 |

Prediction Limit

Constituent: pH, field (Std. Units) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-11 (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 | 5.29 | | | | | |
| 6/1/2017 | | 5.68 | | | | |
| 6/2/2017 | | | 5.31 | | | |
| 8/2/2017 | 5.19 | 5.2 | 5.05 | | | |
| 8/15/2017 | 5.19 | | | | | |
| 8/16/2017 | | | | | | |
| 8/17/2017 | | 5.31 | 5.52 | | | |
| 4/4/2018 | 5.19 | 4.74 | 5.45 | | | |
| 4/5/2018 | | | | | | |
| 5/8/2018 | 5.3 | 4.78 | 5.54 | | | |
| 5/9/2018 | | | | | | |
| 6/19/2018 | 5.15 | | 5.6 | | | |
| 6/20/2018 | | 4.79 | | | | |
| 6/21/2018 | | | | | | |
| 9/25/2018 | 5.13 | | | | | |
| 9/26/2018 | | | 5.17 | | | |
| 9/27/2018 | | 5.14 | | | | |
| 11/6/2018 | 5.08 | 4.9 | | | | |
| 11/7/2018 | | | 5.47 | | | |
| 3/24/2019 | | | 5.4 | | | |
| 3/25/2019 | 5.05 | 4.93 | | | | |
| 8/26/2019 | | | | | | |
| 8/27/2019 | | 5.05 | 5.35 | | | |
| 8/28/2019 | 4.87 | | | | | |
| 10/15/2019 | | 4.89 | 5.32 | | | |
| 10/16/2019 | 5.05 | | | | | |
| 10/17/2019 | | | | | | |
| 11/7/2019 | | | | 3.79 | 4.25 | 5.21 |
| 11/18/2019 | | | | | 4.12 | |
| 11/19/2019 | | | | 3.78 | | 5.15 |
| 11/20/2019 | | 5.03 | | | | |
| 11/21/2019 | | | | | | |
| 12/4/2019 | | | | 3.87 (D) | | 5.28 (D) |
| 12/5/2019 | | | | | 4.17 (D) | |
| 1/8/2020 | | | | 3.77 | | 5.04 |
| 1/9/2020 | | | | | 4.19 | |
| 1/21/2020 | | | | 3.73 | 4.28 | 5.1 |
| 2/4/2020 | | | | 3.72 | 4.26 | 5.15 |
| 2/13/2020 | | | | 3.75 | 4.2 | 5.07 |
| 3/26/2020 | | | | | | |
| 3/27/2020 | 5.09 | | 5.3 | 3.81 | 4.34 | 5.14 |
| 3/28/2020 | | 5.27 | | | | |
| 10/12/2020 | 5 | | | | 4.29 | |
| 10/13/2020 | | 5.25 | 5.02 | 3.72 | | 5.04 |
| 10/14/2020 | | | | | | |
| 10/15/2020 | | | | | | |

Prediction Limit

Constituent: pH, field (Std. Units) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-11 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-18 (bg) | MCM-19 (bg) |
|-----------|-------------|--------|-------------|-------------|-------------|-------------|
| 1/4/2021 | | | | | | |
| 3/2/2021 | | | 5.16 | | | |
| 3/3/2021 | 5.07 | | | 3.36 | 4.37 | 5.1 |
| 3/4/2021 | | 5.31 | | | | |
| 9/13/2021 | | | | | | |
| 9/14/2021 | 5.5 | 5.09 | 5.39 | 3.72 | 4.28 | 5.31 |
| 3/1/2022 | | | | 3.69 | | 5.38 |
| 3/2/2022 | 5.11 | | 5.37 | | 4.33 | |
| 3/3/2022 | | 4.98 | | | | |
| 9/20/2022 | | | | 3.63 | 4.47 | 5.14 |
| 9/21/2022 | 4.97 | 5.34 | 5.23 | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|------------|-------------|----------|-------------|--------|-----------|----------|---------|-----------|-------------|
| 8/30/2016 | 17 | 4.3 | 24 | 6.4 | | | | | |
| 8/31/2016 | | | | | 37 | 21 | 290 | | |
| 10/25/2016 | | | | | | | | 84 | |
| 11/30/2016 | 33 | 7.6 | 26 | 4.5 | 63 | 19 | 240 | 52 | |
| 2/15/2017 | 83 | 3 | 30 | 37 | | | | 190 | |
| 2/16/2017 | | | | | 90 | 22 | 220 | | |
| 5/31/2017 | | 2.5 | | 61 | | | | 260 | 40 |
| 6/1/2017 | 51 | | 24 | | | | | | |
| 6/2/2017 | | | | | 210 | 28 | 500 | | |
| 8/2/2017 | | | | | | | | | 34 |
| 8/15/2017 | | 3.2 | | | | | | 210 | 24 |
| 8/16/2017 | 36 | | | 130 | | | | | |
| 8/17/2017 | | | 26 | | 80 | 69 | 510 | | |
| 4/4/2018 | | | | | | | | | 33.9 |
| 4/5/2018 | | | | | | | | | |
| 5/8/2018 | | | | | | | | | 35.7 |
| 5/9/2018 | | | | | | | | | |
| 6/19/2018 | 50.3 | 1.6 | | 498 | | | | 218 | 23.7 |
| 6/20/2018 | | | 31.2 | | 46 (J) | 33 | | | |
| 6/21/2018 | | | | | | | 481 | | |
| 9/25/2018 | | 1 | | 790 | | | | | 25.6 |
| 9/26/2018 | 54.1 | | 36.8 | | | | | 333 (D) | |
| 9/27/2018 | | | | | 58.5 (J) | 29.4 (D) | 777 (D) | | |
| 11/6/2018 | | | | 875 | | | 926 | 182 | 25.2 |
| 11/7/2018 | 45.6 | 0.41 (J) | 35 | | 41.3 (J) | 734 | | | |
| 3/6/2019 | | | | | | 1220 (J) | | | |
| 3/24/2019 | | 1.5 | | 1170 | 131 | 413 | 1070 | 413 | |
| 3/25/2019 | 43 | | 40.1 | | | | | | 24.9 |
| 10/15/2019 | | 0.54 (J) | | <1 | | | | | |
| 10/16/2019 | 31.9 | | 28.5 | | 122.5 (D) | | | 312.5 (D) | 17.4 |
| 10/17/2019 | | | | | | 507 | 1230 | | |
| 11/7/2019 | | | | | | | | | |
| 11/18/2019 | | | | | | | | | |
| 11/19/2019 | | | | | | | | | |
| 11/20/2019 | | | | | 132 | | 1550 | | |
| 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 | | <1 | 31.2 | 899 | | | | 504 | 23.4 |
| 3/28/2020 | | | | | 63.8 | 701 | 1090 | | |
| 10/12/2020 | | <1 | | | | | | | 19.3 |
| 10/13/2020 | 32.3 | | 26.8 | 695 | | | | 378 | |
| 10/14/2020 | | | | | | 510 | 904 | | |
| 10/15/2020 | | | | | 147 | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|-----------|-------------|--------|-------------|--------|--------|--------|--------|--------|-------------|
| 1/4/2021 | | | | | 262 | | | | |
| 3/2/2021 | | 1.2 | | 97.5 | | | | | |
| 3/3/2021 | 33.8 | | 30.5 | | | | | 420 | 19.9 |
| 3/4/2021 | | | | | 82.2 | 596 | 982 | | |
| 9/13/2021 | | <1 | | 680 | | | | | |
| 9/14/2021 | 34.2 | | 24.4 | | 459 | 490 | 819 | 460 | 33.1 |
| 3/1/2022 | | | | | 143 | 440 | | | |
| 3/2/2022 | 30.8 | | | | | | 702 | | 19.5 |
| 3/3/2022 | | <1 | 20.4 | 754 | | | | 324 | |
| 9/20/2022 | | | | | | 320 | | | |
| 9/21/2022 | 39 | <1 | 24 | 270 | 100 | | 660 | 330 | 23 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | 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 | | | | 1010 | 379 | 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 | | | | 8.1 | | |
| 1/8/2020 | | | | 747 | | 603 |
| 1/9/2020 | | | | | 254 | |
| 1/21/2020 | | | | 798 | 254 | 611 |
| 2/4/2020 | | | | 1120 | 432 | 599 |
| 2/13/2020 | | | | 833 | 300 | 761 |
| 3/26/2020 | | | | | | |
| 3/27/2020 | 28.6 | | 14.6 | 700 | 219 | 836 |
| 3/28/2020 | | 86.6 | | | | |
| 10/12/2020 | | | | | 191 | |
| 10/13/2020 | 27.6 | 92.3 | 7.6 | 638 | | 609 |
| 10/14/2020 | | | | | | |
| 10/15/2020 | | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-18 (bg) | MCM-19 (bg) |
|-----------|-------------|-----------|-------------|-------------|-------------|-------------|
| 1/4/2021 | | | | | | |
| 3/2/2021 | | | 8 | | | |
| 3/3/2021 | 27.6 | | | 743 | 171 | <1 |
| 3/4/2021 | | 99.1 | | | | |
| 9/13/2021 | | | | | | |
| 9/14/2021 | 30.4 | 96.2 (M1) | 16.7 | 659 | 134 | 995 |
| 3/1/2022 | | | | 543 | | 158 |
| 3/2/2022 | 25.7 | | 16 | | 186 | |
| 3/3/2022 | | 50.6 | | | | |
| 9/20/2022 | | | | 750 | 160 | 740 |
| 9/21/2022 | 29 | 52 | 6.3 | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|------------|-------------|--------|-------------|--------|--------|--------|--------|--------|-------------|
| 8/30/2016 | 86 | 1910 | 99 | 1310 | | | | | |
| 8/31/2016 | | | | | 3620 | 4160 | 5100 | | |
| 10/25/2016 | | | | | | | | 2900 | |
| 11/30/2016 | 131 | 1910 | 111 | 1050 | 4030 | 3950 | 4680 | 3970 | |
| 2/15/2017 | 212 | 1870 | 170 | 1440 | | | | 3820 | |
| 2/16/2017 | | | | | 4080 | 4600 | 5080 | | |
| 5/31/2017 | | 1920 | | 1740 | | | | 5050 | 257 |
| 6/1/2017 | 103 | | 98 | | | | | | |
| 6/2/2017 | | | | | 5560 | 4470 | 8000 | | |
| 8/2/2017 | | | | | | | | | 183 |
| 8/15/2017 | | 1840 | | | | | | 4820 | 90 |
| 8/16/2017 | 65 | | | 3010 | | | | | |
| 8/17/2017 | | | 84 | | 4620 | 5450 | 8320 | | |
| 4/4/2018 | | | | | | | | | 197 |
| 4/5/2018 | | | | | | | | | |
| 5/8/2018 | | | | | | | | | 225 |
| 5/9/2018 | | | | | | | | | |
| 6/19/2018 | 142 | 1820 | | 8630 | | | | 5640 | 112 |
| 6/20/2018 | | | 123 | | 3370 | 4940 | | | |
| 6/21/2018 | | | | | | | 7500 | | |
| 9/25/2018 | | 1760 | | 10700 | | | | | 137 |
| 9/26/2018 | 133 | | 117 | | | | | 6920 | |
| 9/27/2018 | | | | | 2360 | 4480 | 10200 | | |
| 11/6/2018 | | | | 11100 | | | 11000 | 4160 | 89 |
| 11/7/2018 | 121 | 1800 | 120 | | 2230 | 15100 | | | |
| 3/6/2019 | | | | | | 19000 | | | |
| 3/24/2019 | | 1770 | | 14200 | 1450 | 13700 | 13700 | 6840 | |
| 3/25/2019 | 116 | | 101 | | | | | | 74 |
| 10/15/2019 | | 1730 | | 15400 | | | | | |
| 10/16/2019 | 104 | | 95 | | 2860 | | | 7740 | 82 |
| 10/17/2019 | | | | | | 16100 | 13200 | | |
| 11/7/2019 | | | | | | | | | |
| 11/18/2019 | | | | | | | | | |
| 11/19/2019 | | | | | | | | | |
| 11/20/2019 | | | | | 2640 | | 16700 | | |
| 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 | | 1970 | 110 | 16400 | | | | 10200 | 87 |
| 3/28/2020 | | | | | 1470 | 18800 | 18300 | | |
| 10/12/2020 | | 1560 | | | | | | | 94 |
| 10/13/2020 | 113 | | 115 | 15600 | | | | 8750 | |
| 10/14/2020 | | | | | | 15200 | 18400 | | |
| 10/15/2020 | | | | | 5100 | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-01 (bg) | MCM-12 | MCM-16 (bg) | MCM-14 | MCM-05 | MCM-06 | MCM-07 | MCM-17 | MCM-11 (bg) |
|-----------|-------------|--------|-------------|--------|--------|--------|--------|--------|-------------|
| 1/4/2021 | | | | | 7750 | | | | |
| 3/2/2021 | | 1430 | | 12000 | | | | | |
| 3/3/2021 | 99 | | 122 | | | | | 8830 | 66 |
| 3/4/2021 | | | | | 1700 | 14200 | 17100 | | |
| 9/13/2021 | | 1450 | | 11400 | | | | | |
| 9/14/2021 | 66 | | <25 | | 8020 | 11800 | 13400 | 8820 | 191 |
| 3/1/2022 | | | | | 3780 | 9040 | | | |
| 3/2/2022 | 97 | | | | | | 12600 | | 124 |
| 3/3/2022 | | 1400 | 104 | 11500 | | | | 8120 | |
| 9/20/2022 | | | | | | 3900 | | | |
| 9/21/2022 | 100 | 1300 | 78 | 7400 | 2100 | | 9400 | 6200 | 110 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-19 (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 | 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 | | | | 13500 | 10900 | 4140 |
| 11/18/2019 | | | | | | 4030 |
| 11/19/2019 | | | | 13300 | 10000 | |
| 11/20/2019 | | | | | | |
| 11/21/2019 | | | | | | |
| 12/4/2019 | | | | 13200 | 11000 | |
| 12/5/2019 | | | | | | 3840 |
| 12/17/2019 | | | | | 9860 | |
| 12/18/2019 | | | | 12500 | | 3880 |
| 1/8/2020 | | | | 12300 | 9760 | |
| 1/9/2020 | | | | | | 3520 |
| 1/21/2020 | | | | 12000 | 10100 | 3280 |
| 2/4/2020 | | | | 12300 | 10600 | 3220 |
| 2/13/2020 | | | | 12400 | 10900 | 3580 |
| 3/26/2020 | | | | | | |
| 3/27/2020 | 119 | | 110 | 14600 | 14300 | 3090 |
| 3/28/2020 | | 284 | | | | |
| 10/12/2020 | | | | | | 2920 |
| 10/13/2020 | 118 | <25 | 63 | 13900 | 6600 | |
| 10/14/2020 | | | | | | |
| 10/15/2020 | | | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/8/2022 4:15 PM View: Appendix III - Interwell
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-02 (bg) | MCM-04 | MCM-15 (bg) | MCM-20 (bg) | MCM-19 (bg) | MCM-18 (bg) |
|-----------|-------------|--------|-------------|-------------|-------------|-------------|
| 1/4/2021 | | | | | | |
| 3/2/2021 | | | 40 | | | |
| 3/3/2021 | 84 | | | 11400 | 11000 | 2620 |
| 3/4/2021 | | 285 | | | | |
| 9/13/2021 | | | | | | |
| 9/14/2021 | 76 | 193 | 96 | 10300 | 14600 | 2190 |
| 3/1/2022 | | | | 10500 | 4050 | |
| 3/2/2022 | 94 | | 103 | | | 3100 |
| 3/3/2022 | | 146 | | | | |
| 9/20/2022 | | | | 8600 | 10000 | 2000 |
| 9/21/2022 | 90 | 180 | 38 | | | |

FIGURE E.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:17 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | MCM-02 (bg) | -0.203 | -59 | -58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-07 | 22.69 | 65 | 63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-18 (bg) | -12.22 | -69 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-20 (bg) | -34.13 | -65 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-07 | -0.05609 | -74 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-14 | -0.1164 | -118 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-18 (bg) | 0.09133 | 51 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-20 (bg) | -0.0637 | -49 | -43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |

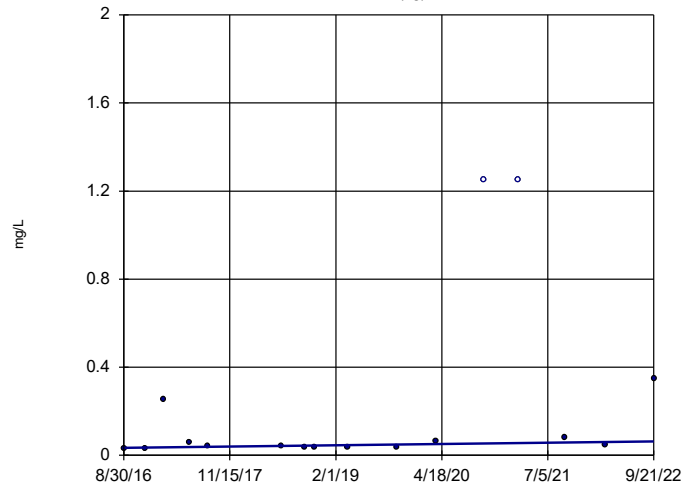
Trend Tests - Prediction Limit Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/8/2022, 4:17 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|--------------------|-----------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | MCM-01 (bg) | 0.004651 | 42 | 58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-02 (bg) | -0.01071 | -19 | -58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-11 (bg) | 0.00389 | 26 | 58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-15 (bg) | 0.007093 | 42 | 58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-16 (bg) | -0.004349 | -25 | -58 | No | 16 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-17 | -0.04944 | -27 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-18 (bg) | -0.01812 | -39 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-19 (bg) | 0.007503 | 3 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | MCM-20 (bg) | -0.01501 | -13 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-01 (bg) | -0.2923 | -18 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-02 (bg) | -0.203 | -59 | -58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-07 | 22.69 | 65 | 63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-11 (bg) | -1.082 | -32 | -58 | No | 16 | 6.25 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-15 (bg) | 0 | 2 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-16 (bg) | 0.02199 | 7 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-18 (bg) | -12.22 | -69 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-19 (bg) | -30.04 | -42 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | MCM-20 (bg) | -34.13 | -65 | -48 | Yes | 14 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-01 (bg) | -0.004468 | -4 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-02 (bg) | 0.02274 | 65 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-05 | -0.0466 | -43 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-06 | -0.05477 | -28 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-07 | -0.05609 | -74 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-11 (bg) | -0.04429 | -60 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-12 | -0.0342 | -51 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-14 | -0.1164 | -118 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-15 (bg) | -0.04201 | -34 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-16 (bg) | -0.001213 | -3 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-17 | -0.09481 | -64 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-18 (bg) | 0.09133 | 51 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-19 (bg) | 0 | 2 | 43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (Std. Units) | MCM-20 (bg) | -0.0637 | -49 | -43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

MCM-01 (bg)

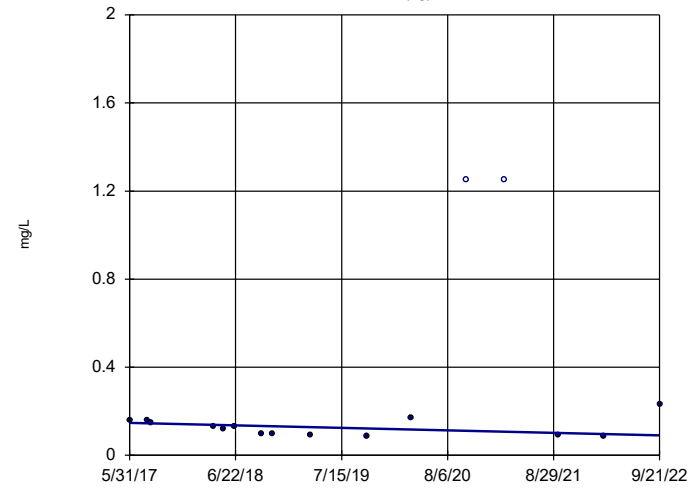


n = 16
Slope = 0.004651
units per year.
Mann-Kendall
statistic = 42
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-02 (bg)

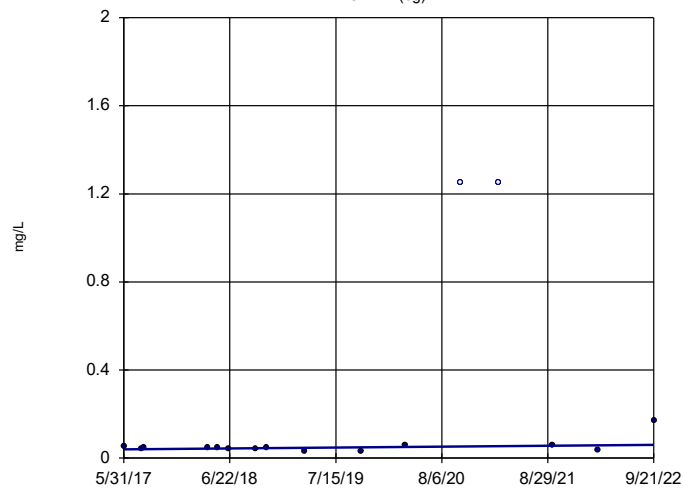


n = 16
Slope = -0.01071
units per year.
Mann-Kendall
statistic = -19
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-11 (bg)

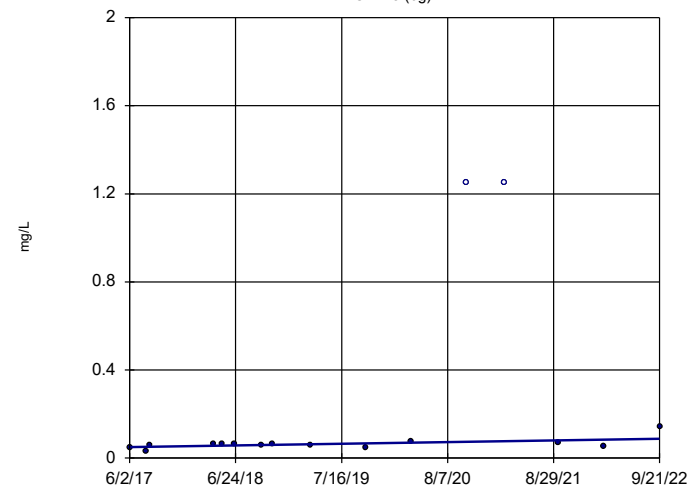


n = 16
Slope = 0.00389
units per year.
Mann-Kendall
statistic = 26
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-15 (bg)

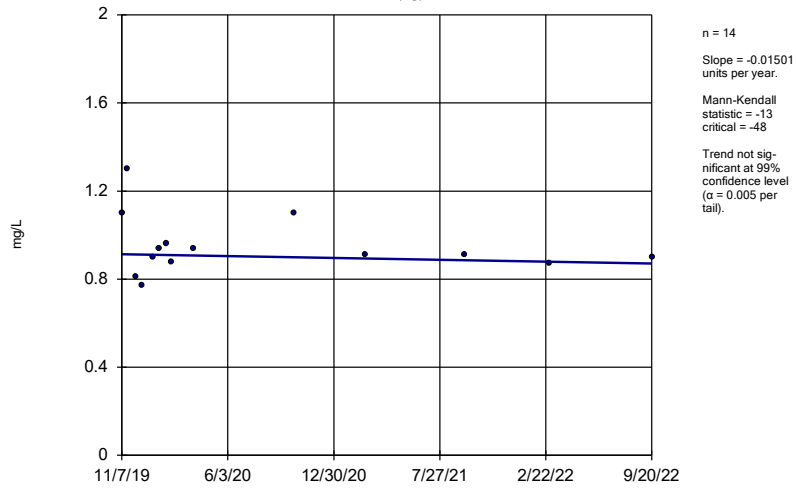


n = 16
Slope = 0.007093
units per year.
Mann-Kendall
statistic = 42
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

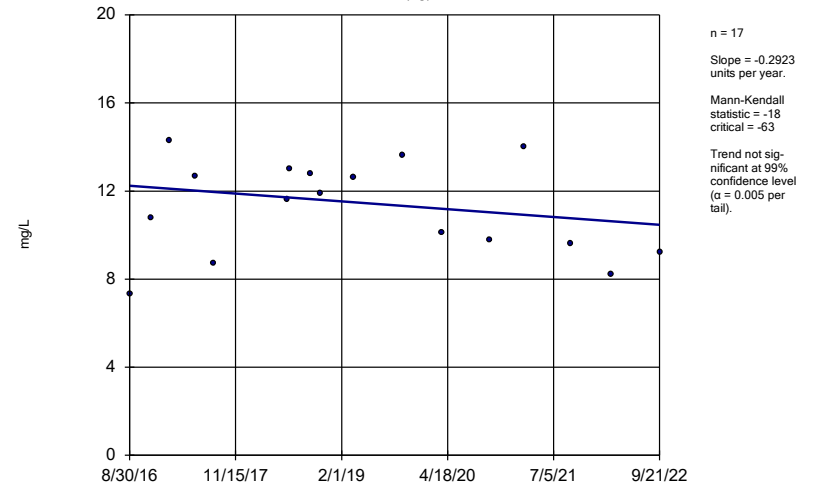
MCM-20 (bg)



Constituent: Boron Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

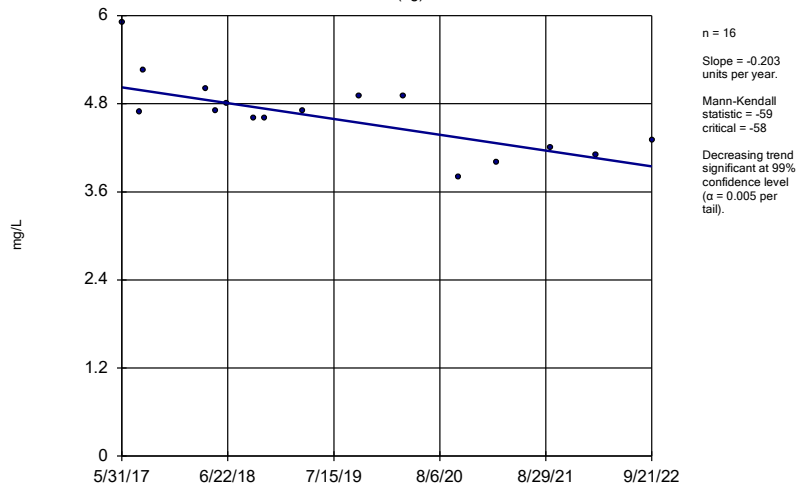
MCM-01 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

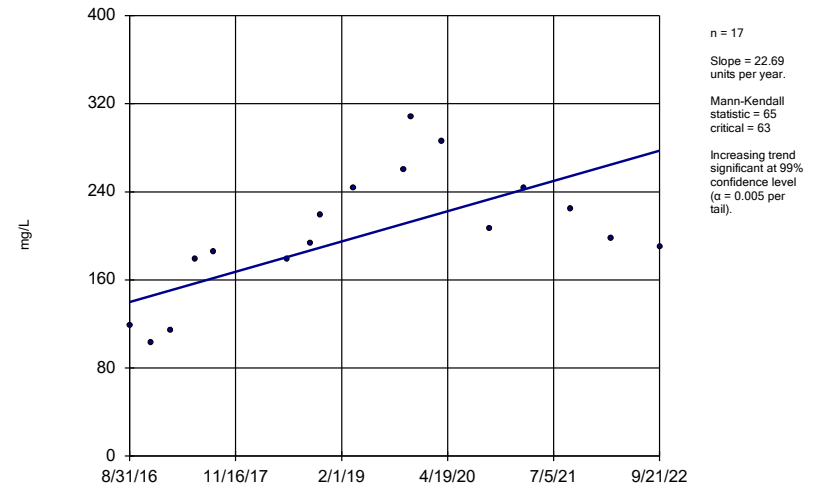
MCM-02 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

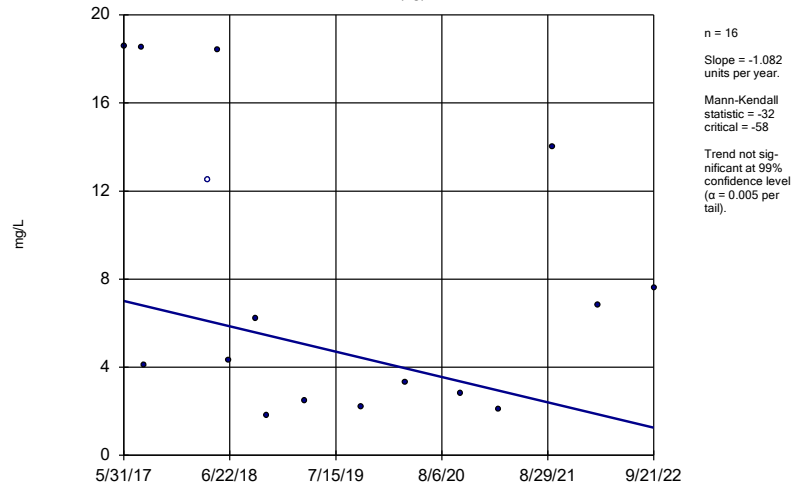
MCM-07



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

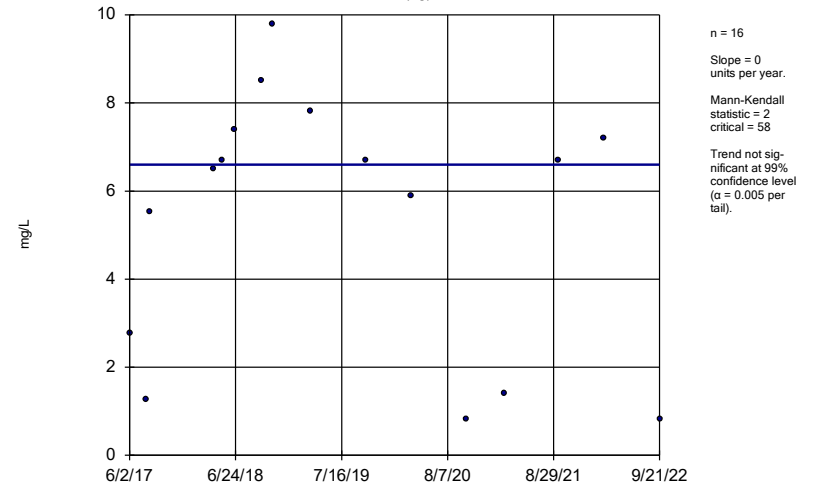
MCM-11 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

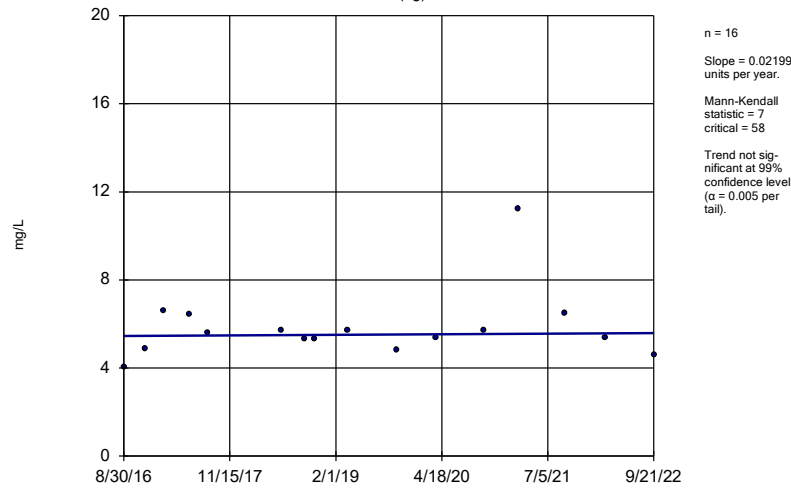
MCM-15 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

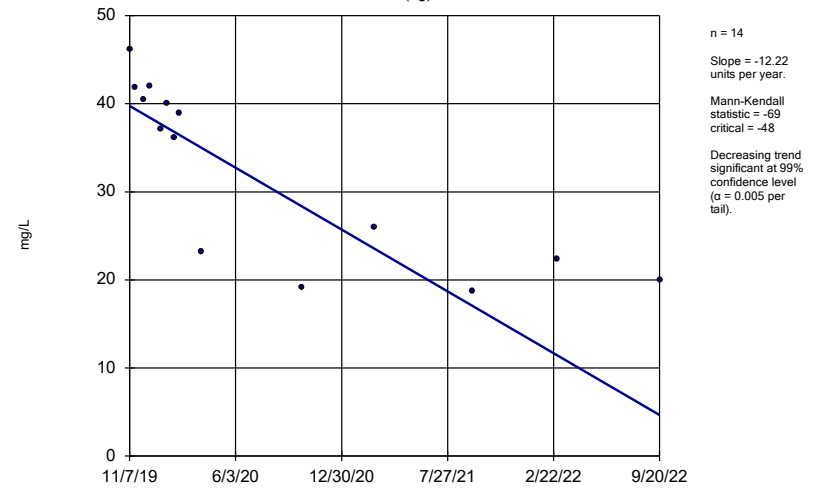
MCM-16 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

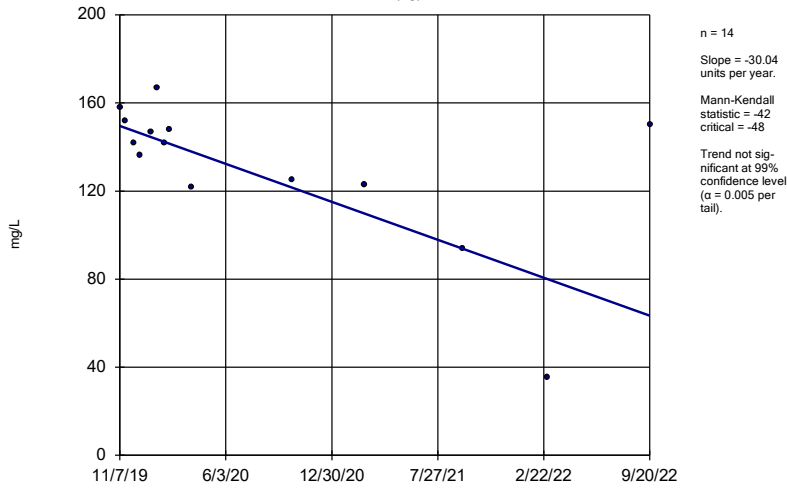
MCM-18 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

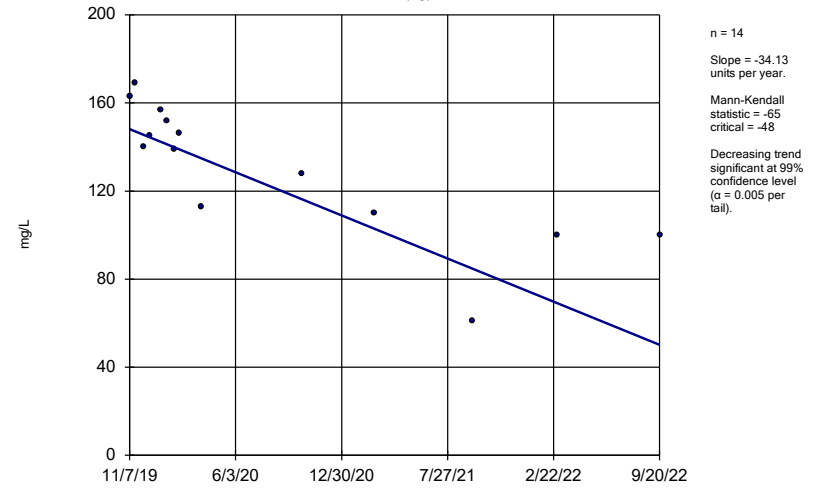
MCM-19 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

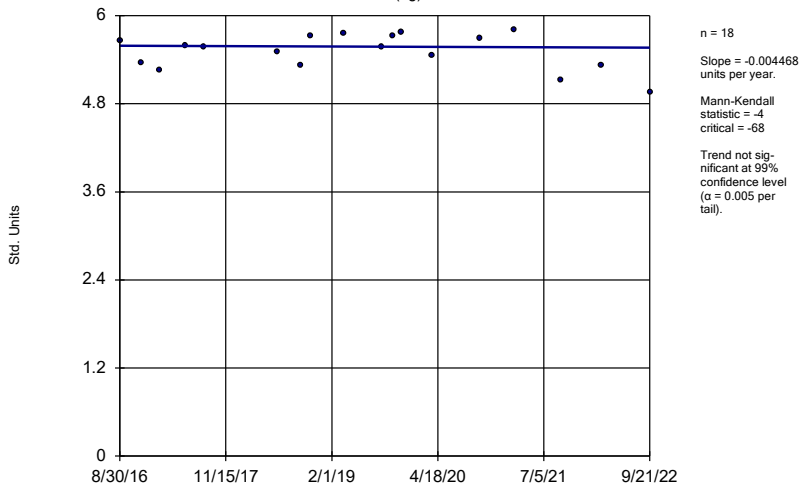
MCM-20 (bg)



Constituent: Calcium Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

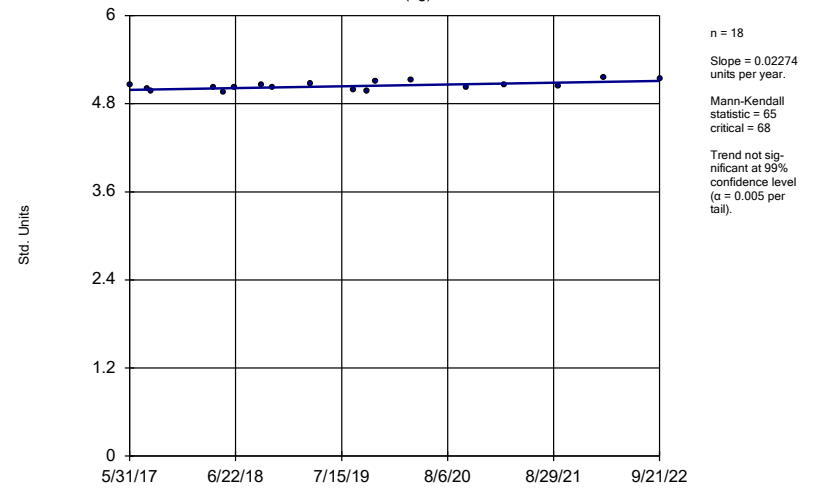
MCM-01 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

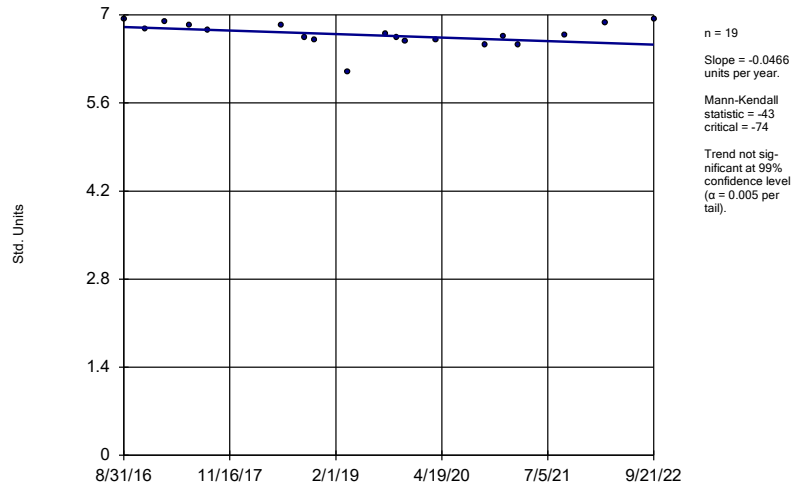
MCM-02 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

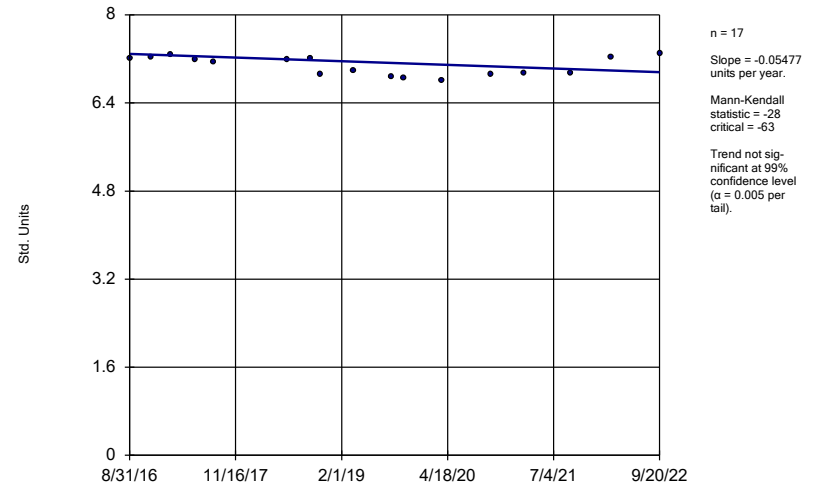
MCM-05



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

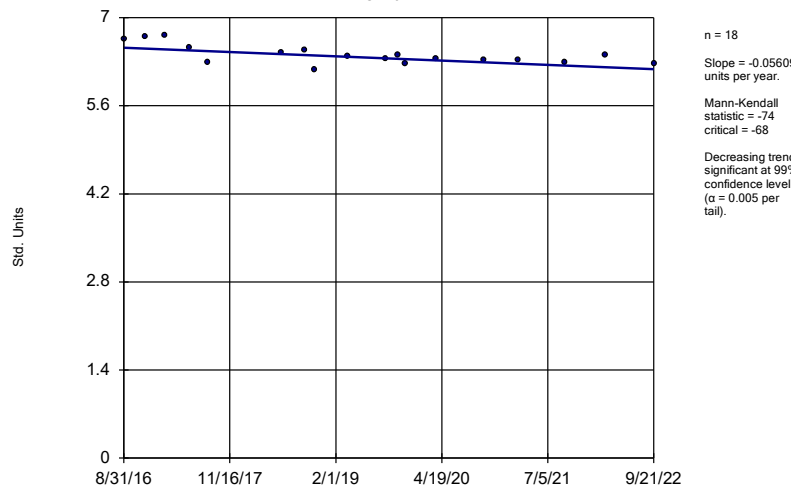
MCM-06



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

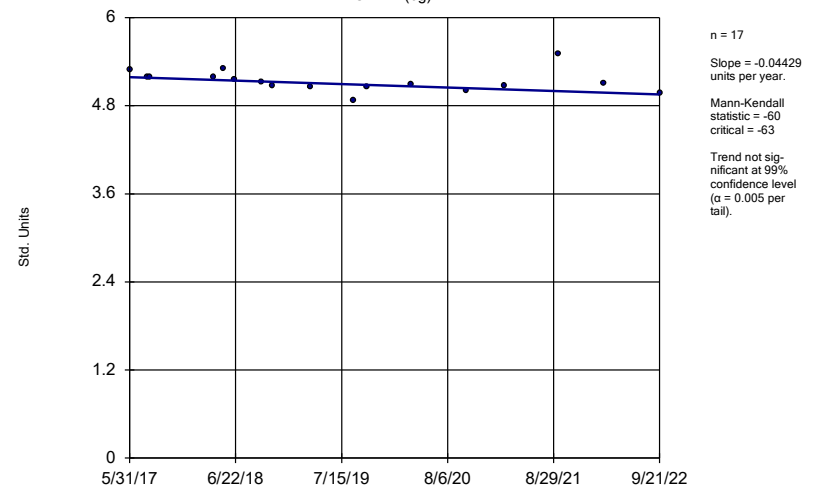
MCM-07



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

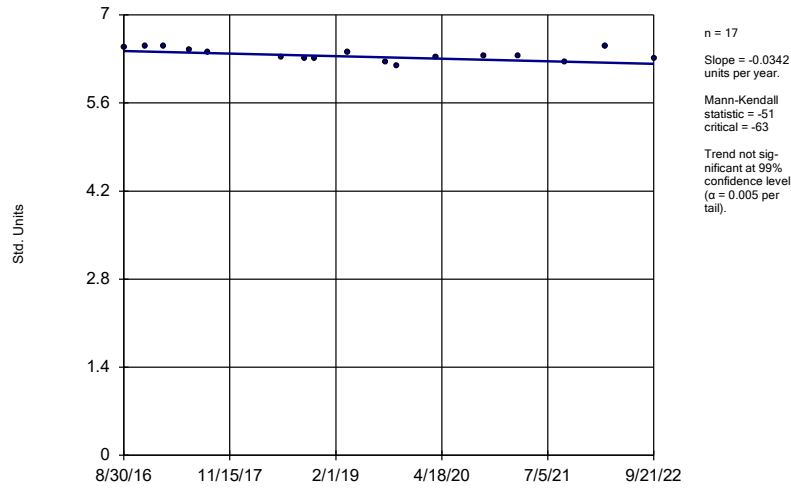
MCM-11 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

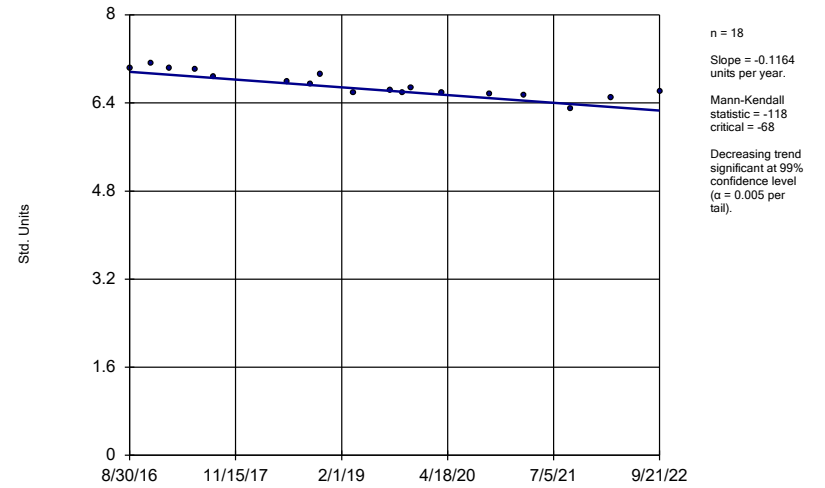
MCM-12



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

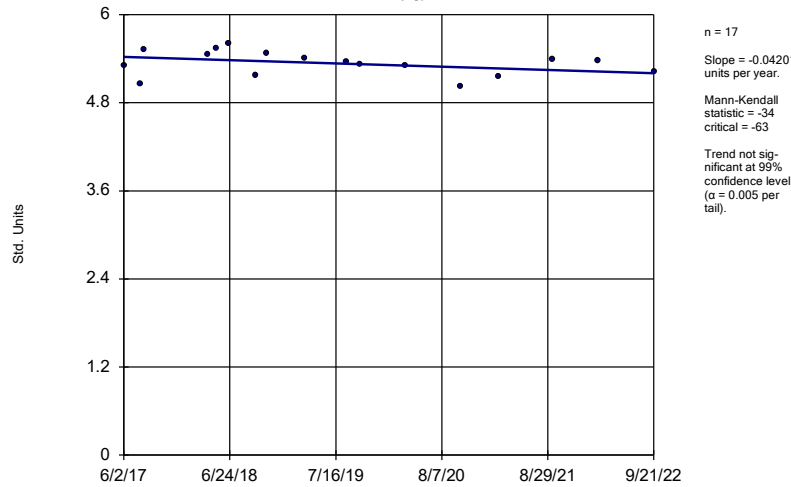
MCM-14



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

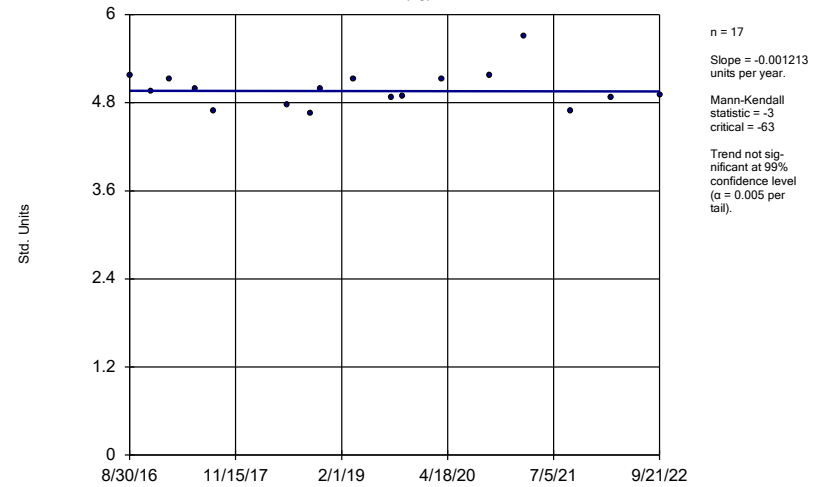
MCM-15 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

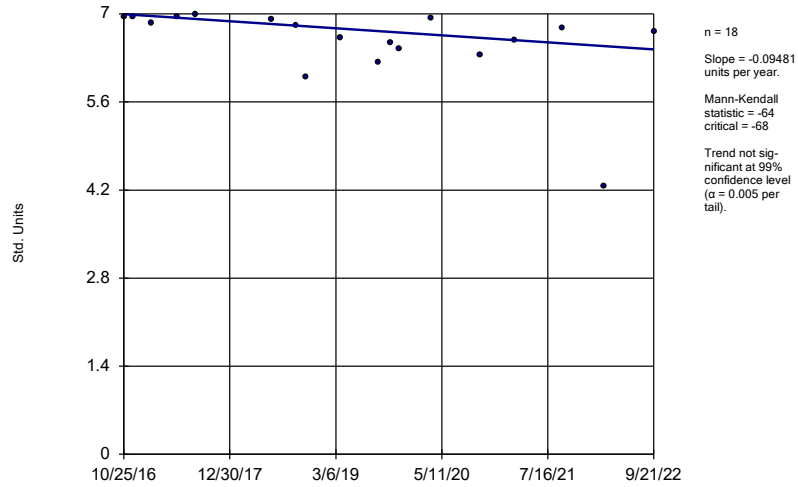
MCM-16 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

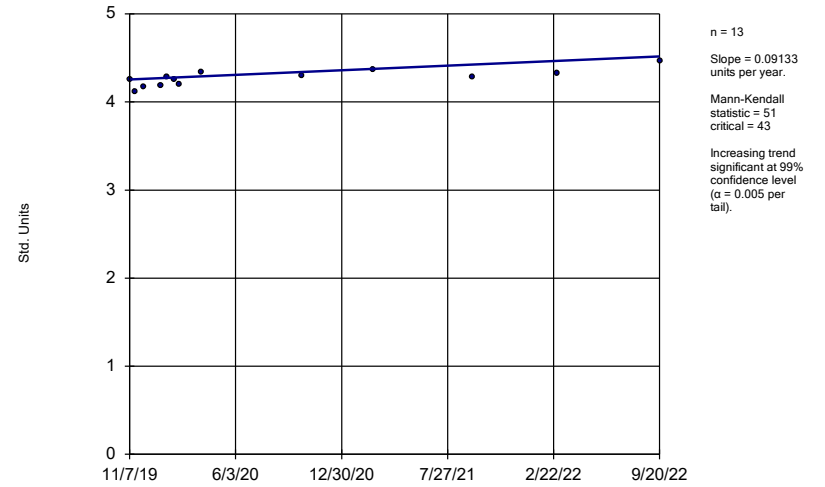
MCM-17



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

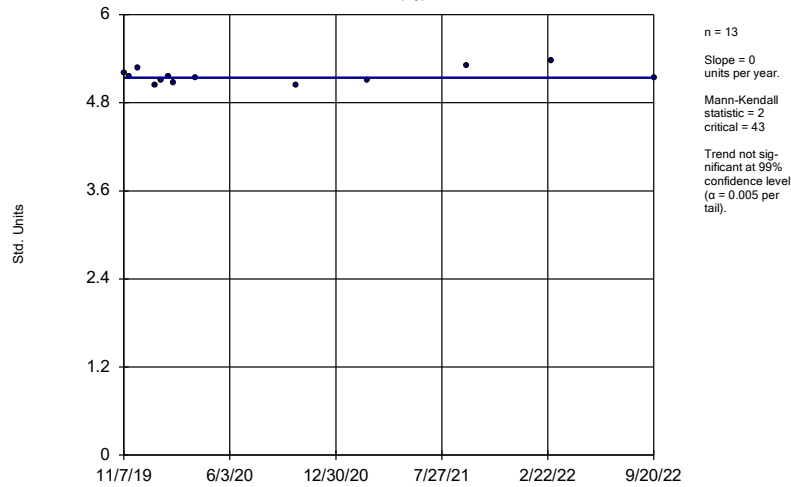
MCM-18 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

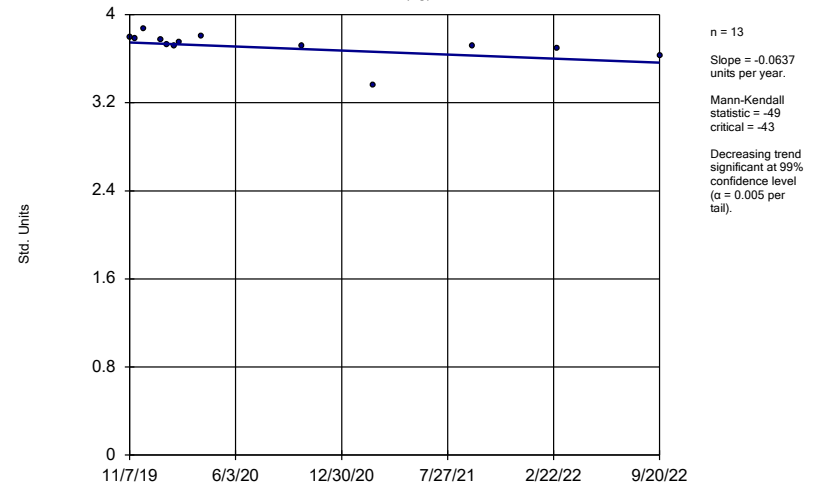
MCM-19 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-20 (bg)



Constituent: pH, field Analysis Run 12/8/2022 4:16 PM View: Appendix III - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

FIGURE F.

Upper Tolerance Limit Summary Table

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 1:51 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------------|------|---------|------|------|---------|-----------|-------|---------|-----------|----------|---------------------|
| Antimony (mg/L) | n/a | 0.003 | n/a | n/a | n/a | n/a | 107 | n/a | n/a | 95.33 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.032 | n/a | n/a | n/a | n/a | 126 | n/a | n/a | 14.29 | n/a | n/a | 0.00156 | NP Inter(normality) |
| Barium (mg/L) | n/a | 0.22 | n/a | n/a | n/a | n/a | 123 | n/a | n/a | 0 | n/a | n/a | 0.00182 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.021 | n/a | n/a | n/a | n/a | 122 | n/a | n/a | 27.05 | n/a | n/a | 0.001915 | NP Inter(normality) |
| Cadmium (mg/L) | n/a | 0.0043 | n/a | n/a | n/a | n/a | 100 | n/a | n/a | 92 | n/a | n/a | 0.005921 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.011 | n/a | n/a | n/a | n/a | 107 | n/a | n/a | 50.47 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.036 | n/a | n/a | n/a | n/a | 122 | n/a | n/a | 72.95 | n/a | n/a | 0.001915 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 55.8 | n/a | n/a | n/a | n/a | 121 | n/a | n/a | 0 | n/a | n/a | 0.002016 | NP Inter(normality) |
| Fluoride (mg/L) | n/a | 1.5 | n/a | n/a | n/a | n/a | 126 | n/a | n/a | 50 | n/a | n/a | 0.00156 | NP Inter(normality) |
| Lead (mg/L) | n/a | 0.005 | n/a | n/a | n/a | n/a | 122 | n/a | n/a | 83.61 | n/a | n/a | 0.001915 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.029 | n/a | n/a | n/a | n/a | 119 | n/a | n/a | 55.46 | n/a | n/a | 0.002234 | NP Inter(NDs) |
| Mercury (mg/L) | n/a | 0.0007 | n/a | n/a | n/a | n/a | 101 | n/a | n/a | 95.05 | n/a | n/a | 0.005625 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.01 | n/a | n/a | n/a | n/a | 106 | n/a | n/a | 90.57 | n/a | n/a | 0.004352 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.15 | n/a | n/a | n/a | n/a | 123 | n/a | n/a | 61.79 | n/a | n/a | 0.00182 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | n/a | n/a | n/a | n/a | 106 | n/a | n/a | 92.45 | n/a | n/a | 0.004352 | NP Inter(NDs) |

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 | | 55.8 | 55.8 |
| Fluoride, Total (mg/L) | 4 | | 1.5 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.005 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.029 | 0.04 |
| 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 | | 0.15 | 0.15 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 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 Intervals - Significant Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:00 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|----------------|--------|------------|------------|------------|------|----|---------|-----------|-------|---------|-----------|-------|--------|
| Arsenic (mg/L) | MCM-06 | 0.419 | 0.2642 | 0.032 | Yes | 20 | 0.3416 | 0.1364 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | DPZ-02 | 0.09839 | 0.06881 | 0.04 | Yes | 7 | 0.07907 | 0.02995 | 14.29 | None | x^4 | 0.01 | Param. |
| Lithium (mg/L) | MCM-06 | 0.09647 | 0.0557 | 0.04 | Yes | 17 | 0.07608 | 0.03253 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:00 PM

| 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 | 15 | 0.002719 | 0.0007228 | 80 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MCM-14 | 0.003 | 0.0004 | 0.006 | No | 14 | 0.002814 | 0.0006949 | 92.86 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MCM-17 | 0.003 | 0.00078 | 0.006 | No | 14 | 0.002841 | 0.0005933 | 92.86 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | DPZ-02 | 0.1 | 0.015 | 0.032 | No | 6 | 0.03267 | 0.0331 | 16.67 | None | No | 0.0155 | NP (normality) |
| Arsenic (mg/L) | MCM-04 | 0.007099 | 0.002848 | 0.032 | No | 17 | 0.005459 | 0.004106 | 0 | None | x^(1/3) | 0.01 | Param. |
| Arsenic (mg/L) | MCM-05 | 0.01548 | 0.004029 | 0.032 | No | 19 | 0.01484 | 0.01165 | 15.79 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | MCM-06 | 0.419 | 0.2642 | 0.032 | Yes | 20 | 0.3416 | 0.1364 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | MCM-07 | 0.01945 | 0.01054 | 0.032 | No | 19 | 0.01559 | 0.007958 | 0 | None | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | MCM-12 | 0.0063 | 0.001 | 0.032 | No | 16 | 0.004331 | 0.002576 | 56.25 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MCM-14 | 0.0067 | 0.0014 | 0.032 | No | 16 | 0.004863 | 0.002306 | 56.25 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MCM-17 | 0.0063 | 0.0018 | 0.032 | No | 17 | 0.004518 | 0.002169 | 47.06 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | DPZ-02 | 0.09686 | 0.05994 | 2 | No | 5 | 0.0784 | 0.01101 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-04 | 0.07989 | 0.03217 | 2 | No | 16 | 0.06769 | 0.07126 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | MCM-05 | 0.04117 | 0.01055 | 2 | No | 17 | 0.04808 | 0.1054 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | MCM-06 | 0.1371 | 0.06635 | 2 | No | 17 | 0.1017 | 0.05647 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-07 | 0.2 | 0.1 | 2 | No | 16 | 0.1589 | 0.09263 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MCM-12 | 0.1257 | 0.09678 | 2 | No | 16 | 0.1113 | 0.02224 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-14 | 0.1267 | 0.05881 | 2 | No | 16 | 0.09276 | 0.05218 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MCM-17 | 0.1326 | 0.0663 | 2 | No | 16 | 0.09943 | 0.05093 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | MCM-04 | 0.0025 | 0.00021 | 0.021 | No | 16 | 0.001129 | 0.001106 | 37.5 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | MCM-05 | 0.0025 | 0.000054 | 0.021 | No | 17 | 0.002356 | 0.0005932 | 94.12 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MCM-07 | 0.0025 | 0.00012 | 0.021 | No | 16 | 0.002048 | 0.0009713 | 81.25 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MCM-12 | 0.001226 | 0.0005293 | 0.021 | No | 16 | 0.0009425 | 0.0006676 | 12.5 | None | x^(1/3) | 0.01 | Param. |
| Beryllium (mg/L) | MCM-14 | 0.0025 | 0.0001 | 0.021 | No | 16 | 0.001753 | 0.001145 | 68.75 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MCM-17 | 0.002 | 0.0002 | 0.021 | No | 16 | 0.0009081 | 0.0008755 | 37.5 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | MCM-04 | 0.0025 | 0.00043 | 0.005 | No | 13 | 0.002341 | 0.0005741 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MCM-07 | 0.0025 | 0.0002 | 0.005 | No | 13 | 0.002323 | 0.0006379 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MCM-17 | 0.0025 | 0.000093 | 0.005 | No | 13 | 0.002315 | 0.0006676 | 92.31 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MCM-04 | 0.01 | 0.00085 | 0.1 | No | 14 | 0.005025 | 0.004479 | 42.86 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-05 | 0.01 | 0.0007 | 0.1 | No | 14 | 0.005503 | 0.004676 | 50 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-06 | 0.01 | 0.001 | 0.1 | No | 15 | 0.00701 | 0.00438 | 66.67 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MCM-07 | 0.01 | 0.002 | 0.1 | No | 14 | 0.005064 | 0.003825 | 35.71 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-12 | 0.01 | 0.005 | 0.1 | No | 14 | 0.007221 | 0.002319 | 35.71 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-14 | 0.01 | 0.0015 | 0.1 | No | 14 | 0.005198 | 0.00434 | 42.86 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MCM-17 | 0.01225 | 0.007354 | 0.1 | No | 14 | 0.01063 | 0.003069 | 28.57 | Kaplan-Meier | No | 0.01 | Param. |
| Cobalt (mg/L) | MCM-04 | 0.0063 | 0.0025 | 0.036 | No | 17 | 0.004518 | 0.002316 | 41.18 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MCM-05 | 0.0025 | 0.0019 | 0.036 | No | 17 | 0.002333 | 0.0005536 | 88.24 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-06 | 0.0025 | 0.0009 | 0.036 | No | 17 | 0.002276 | 0.0006399 | 88.24 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-07 | 0.0025 | 0.0011 | 0.036 | No | 16 | 0.002276 | 0.0006298 | 87.5 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-12 | 0.0025 | 0.00053 | 0.036 | No | 16 | 0.001762 | 0.0009856 | 62.5 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-14 | 0.0025 | 0.0006 | 0.036 | No | 16 | 0.002381 | 0.000475 | 93.75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MCM-17 | 0.0025 | 0.00052 | 0.036 | No | 16 | 0.001992 | 0.0009129 | 75 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | DPZ-02 | 9.978 | 5.787 | 55.8 | No | 4 | 7.883 | 0.9229 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-04 | 5.506 | 2.866 | 55.8 | No | 16 | 4.316 | 2.278 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-05 | 2.71 | 1.43 | 55.8 | No | 17 | 2.718 | 2.163 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | MCM-06 | 8.58 | 1.83 | 55.8 | No | 16 | 5.191 | 3.243 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | MCM-07 | 9.295 | 5.783 | 55.8 | No | 17 | 7.539 | 2.802 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-12 | 3.079 | 2.126 | 55.8 | No | 16 | 2.603 | 0.7328 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-14 | 7.329 | 3.467 | 55.8 | No | 17 | 5.398 | 3.082 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MCM-17 | 8.82 | 2.22 | 55.8 | No | 17 | 5.269 | 3.011 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | DPZ-02 | 0.11 | 0.1 | 4 | No | 5 | 0.102 | 0.004472 | 80 | None | No | 0.031 | NP (NDs) |
| Fluoride (mg/L) | MCM-04 | 0.12 | 0.095 | 4 | No | 17 | 0.1331 | 0.1219 | 52.94 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MCM-05 | 0.4419 | 0.2033 | 4 | No | 19 | 0.4058 | 0.2315 | 15.79 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MCM-06 | 0.3 | 0.1 | 4 | No | 17 | 0.244 | 0.2623 | 47.06 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MCM-07 | 0.42 | 0.1 | 4 | No | 18 | 0.2748 | 0.2796 | 44.44 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MCM-12 | 1.28 | 0.987 | 4 | No | 17 | 1.1 | 0.3205 | 5.882 | None | x^2 | 0.01 | Param. |
| Fluoride (mg/L) | MCM-14 | 0.49 | 0.1 | 4 | No | 18 | 0.218 | 0.1922 | 55.56 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MCM-17 | 1.2 | 0.1 | 4 | No | 18 | 0.5285 | 0.4963 | 38.89 | None | No | 0.01 | NP (normality) |

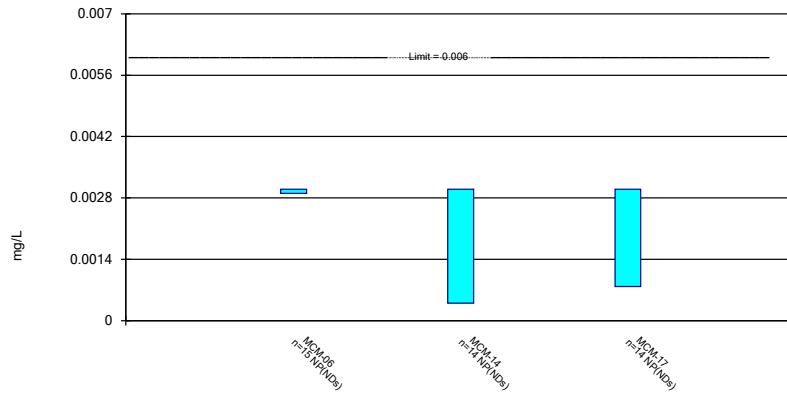
Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:00 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|---------------|----------------|----------------|-------------|------------|-----------|----------------|----------------|--------------|-------------|------------|-------------|----------------|
| Lead (mg/L) | MCM-05 | 0.005 | 0.0002 | 0.015 | No | 17 | 0.004718 | 0.001164 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-06 | 0.005 | 0.00012 | 0.015 | No | 17 | 0.004713 | 0.001184 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-07 | 0.005 | 0.0002 | 0.015 | No | 16 | 0.004086 | 0.001965 | 81.25 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-12 | 0.005 | 0.0001 | 0.015 | No | 16 | 0.003518 | 0.002276 | 68.75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-14 | 0.005 | 0.00008 | 0.015 | No | 16 | 0.004692 | 0.00123 | 93.75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MCM-17 | 0.005 | 0.00027 | 0.015 | No | 16 | 0.003809 | 0.00213 | 75 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | DPZ-02 | 0.09839 | 0.06881 | 0.04 | Yes | 7 | 0.07907 | 0.02995 | 14.29 | None | x^4 | 0.01 | Param. |
| Lithium (mg/L) | MCM-04 | 0.025 | 0.0015 | 0.04 | No | 16 | 0.01347 | 0.01192 | 50 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MCM-05 | 0.0376 | 0.021 | 0.04 | No | 17 | 0.05995 | 0.1317 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MCM-06 | 0.09647 | 0.0557 | 0.04 | Yes | 17 | 0.07608 | 0.03253 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MCM-07 | 0.04934 | 0.02023 | 0.04 | No | 17 | 0.04114 | 0.0352 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | MCM-12 | 0.013 | 0.0102 | 0.04 | No | 16 | 0.01369 | 0.005744 | 18.75 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MCM-14 | 0.04813 | 0.02964 | 0.04 | No | 17 | 0.03614 | 0.01761 | 5.882 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | MCM-17 | 0.02516 | 0.01509 | 0.04 | No | 16 | 0.02013 | 0.007746 | 6.25 | None | No | 0.01 | Param. |
| Mercury (mg/L) | MCM-04 | 0.00071 | 0.0002 | 0.002 | No | 13 | 0.0002392 | 0.0001414 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-05 | 0.0002 | 0.000042 | 0.002 | No | 13 | 0.0001878 | 0.00004382 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-06 | 0.0002 | 0.00016 | 0.002 | No | 14 | 0.0001971 | 0.00001069 | 92.86 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-07 | 0.00067 | 0.0002 | 0.002 | No | 13 | 0.0002362 | 0.0001304 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-14 | 0.00066 | 0.0002 | 0.002 | No | 13 | 0.0002354 | 0.0001276 | 92.31 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MCM-17 | 0.00064 | 0.000036 | 0.002 | No | 13 | 0.0002212 | 0.0001337 | 84.62 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-04 | 0.01 | 0.00015 | 0.1 | No | 14 | 0.009296 | 0.002633 | 92.86 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-05 | 0.01 | 0.0099 | 0.1 | No | 14 | 0.008718 | 0.003238 | 78.57 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-06 | 0.01 | 0.0017 | 0.1 | No | 15 | 0.007307 | 0.003952 | 66.67 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-07 | 0.01 | 0.00095 | 0.1 | No | 14 | 0.009354 | 0.002419 | 92.86 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MCM-17 | 0.01 | 0.0019 | 0.1 | No | 14 | 0.009421 | 0.002165 | 92.86 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-04 | 0.005 | 0.0025 | 0.15 | No | 16 | 0.00425 | 0.001681 | 81.25 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-05 | 0.005 | 0.0028 | 0.15 | No | 17 | 0.004359 | 0.001203 | 76.47 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-06 | 0.0054 | 0.0022 | 0.15 | No | 17 | 0.004353 | 0.001779 | 52.94 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-07 | 0.005 | 0.0023 | 0.15 | No | 16 | 0.004175 | 0.001255 | 56.25 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-12 | 0.005 | 0.0019 | 0.15 | No | 16 | 0.003637 | 0.001615 | 56.25 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-14 | 0.0057 | 0.0019 | 0.15 | No | 16 | 0.004144 | 0.001456 | 62.5 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MCM-17 | 0.0067 | 0.0021 | 0.15 | No | 16 | 0.004262 | 0.001976 | 50 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | MCM-06 | 0.001 | 0.000076 | 0.002 | No | 15 | 0.0009384 | 0.0002386 | 93.33 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MCM-17 | 0.001 | 0.00014 | 0.002 | No | 14 | 0.0009386 | 0.0002298 | 92.86 | None | No | 0.01 | NP (NDs) |

Non-Parametric Confidence Interval

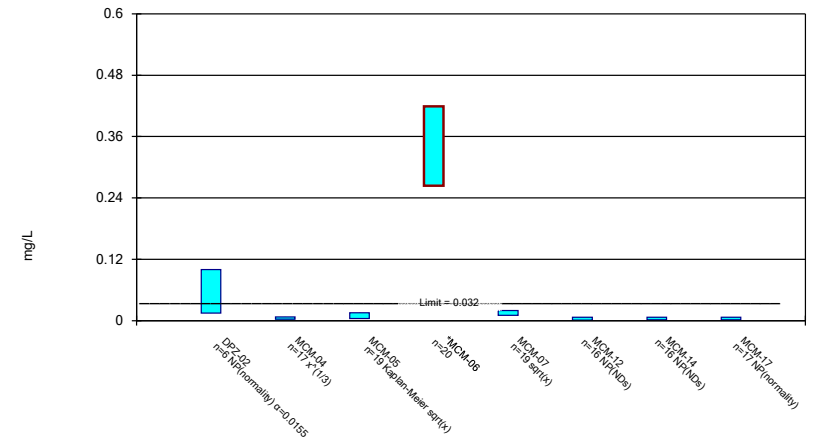
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

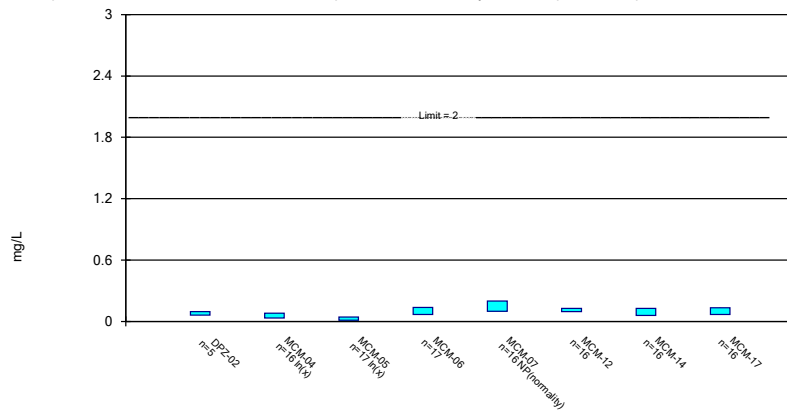
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Arsenic Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

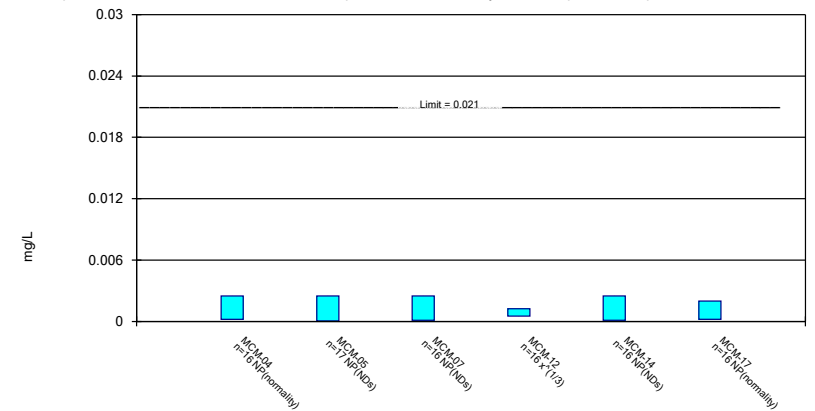
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

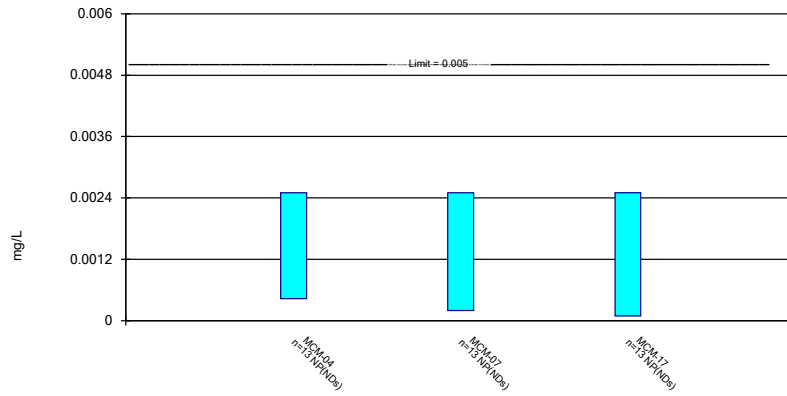
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

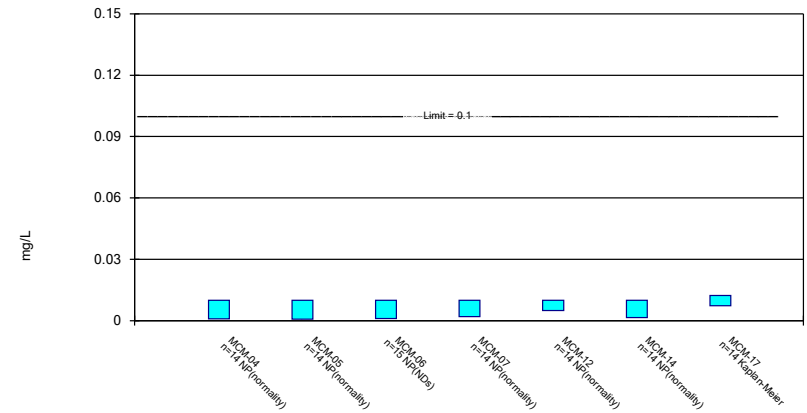
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

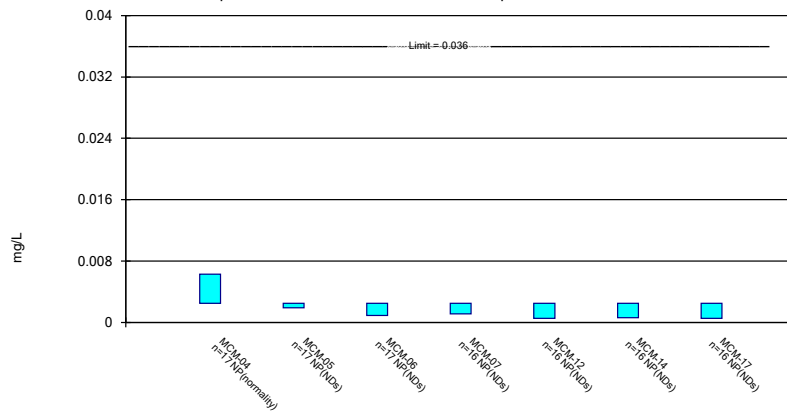
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

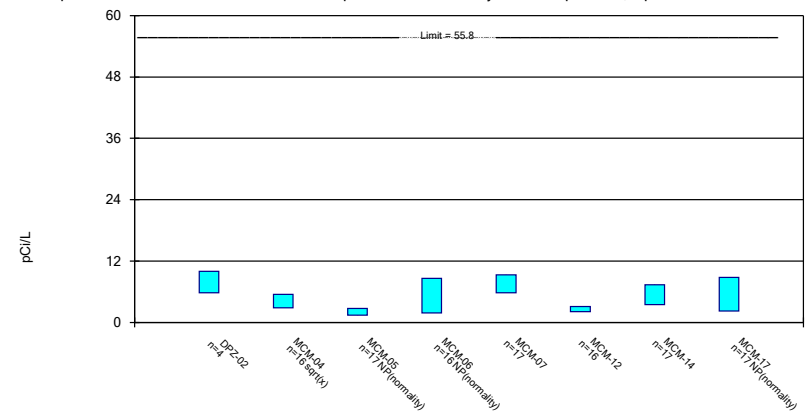
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

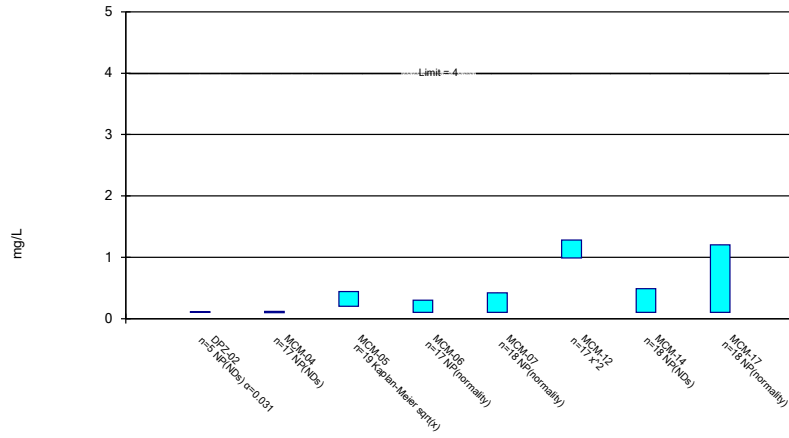
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confide
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

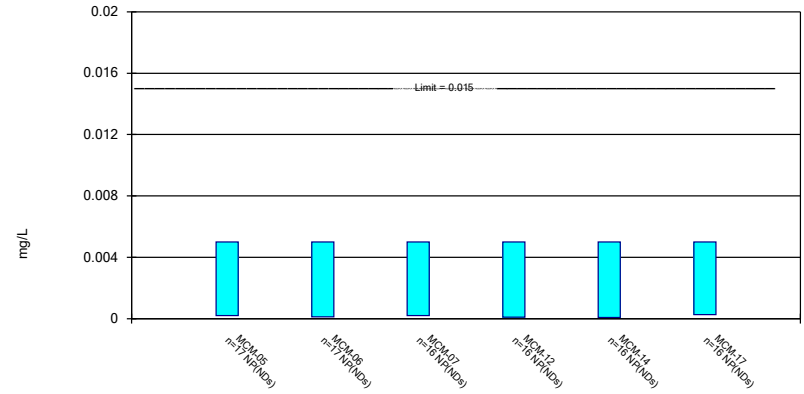
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Fluoride Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

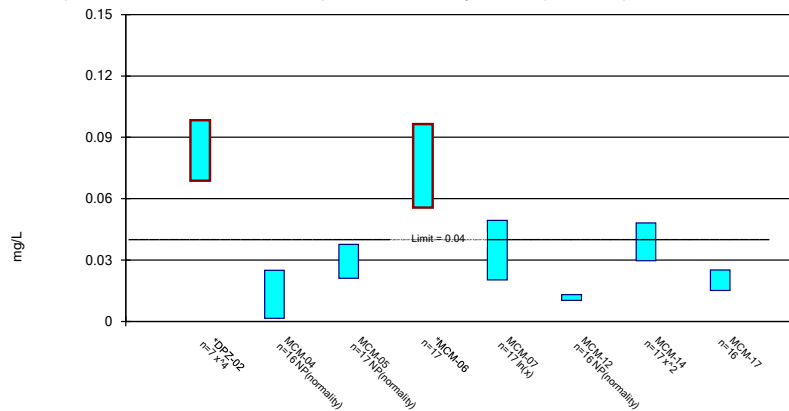
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Parametric and Non-Parametric (NP) Confidence Interval

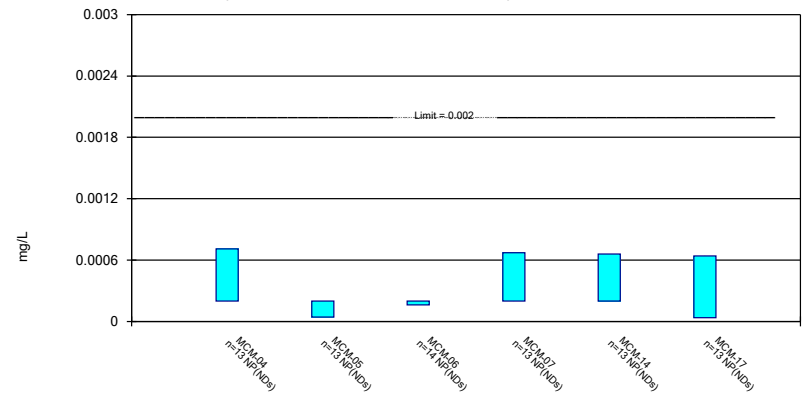
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

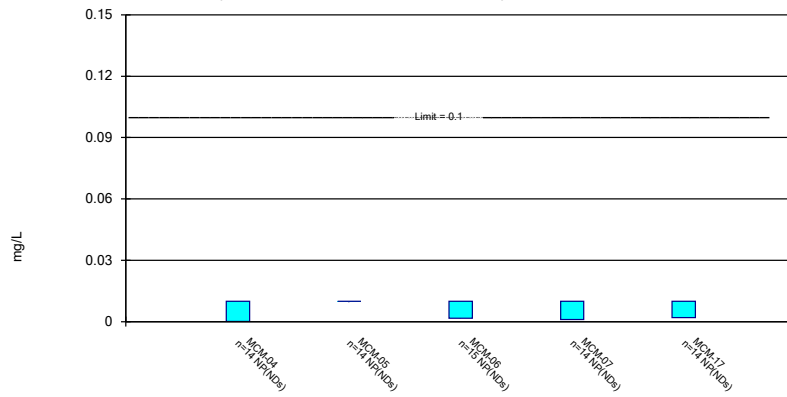
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

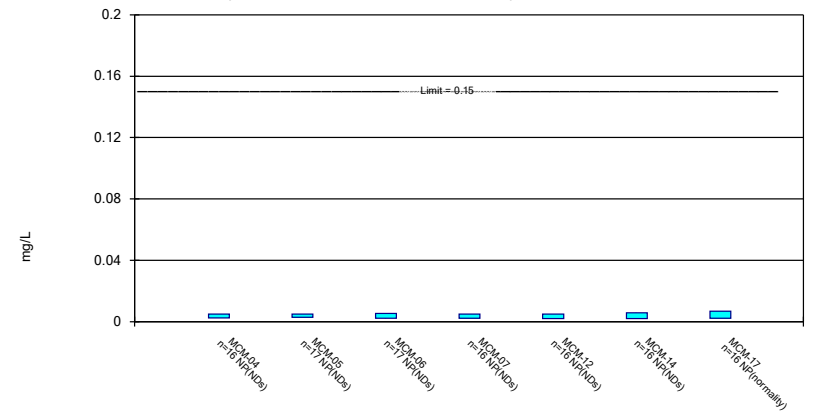
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

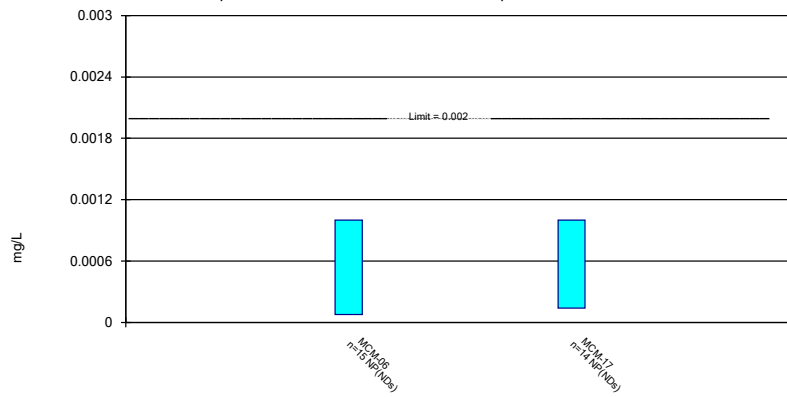
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 12/22/2022 1:58 PM View: Appendix IV - Confidence Intervals
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-06 | MCM-14 | MCM-17 |
|------------|-------------|------------|-----------|
| 8/30/2016 | | <0.003 | |
| 8/31/2016 | <0.003 | | |
| 10/25/2016 | | | <0.003 |
| 11/30/2016 | <0.003 | <0.003 | <0.003 |
| 2/15/2017 | | <0.003 | <0.003 |
| 2/16/2017 | <0.003 | | |
| 5/31/2017 | | <0.003 | <0.003 |
| 6/2/2017 | <0.003 | | |
| 8/15/2017 | | | <0.003 |
| 8/16/2017 | | <0.003 | |
| 8/17/2017 | <0.003 | | |
| 6/19/2018 | | <0.003 | <0.003 |
| 6/20/2018 | <0.003 | | |
| 9/25/2018 | | <0.003 | |
| 9/26/2018 | | | 0.00078 |
| 9/27/2018 | <0.003 | | |
| 11/6/2018 | | <0.003 | <0.003 |
| 11/7/2018 | <0.003 | | |
| 3/6/2019 | <0.003 | | |
| 8/26/2019 | | 0.0004 (J) | |
| 8/27/2019 | | | <0.003 |
| 8/28/2019 | 0.00098 (J) | | |
| 10/15/2019 | | <0.003 | |
| 10/16/2019 | | | <0.003 |
| 10/17/2019 | 0.0009 (J) | | |
| 3/27/2020 | | <0.003 | <0.003 |
| 3/28/2020 | 0.0029 (J) | | |
| 9/13/2021 | | <0.003 | |
| 9/14/2021 | <0.003 | | <0.003 |
| 3/1/2022 | <0.003 | | |
| 3/3/2022 | | <0.003 | <0.003 |
| 9/20/2022 | <0.003 | | |
| 9/21/2022 | | <0.003 | <0.003 |
| Mean | 0.002719 | 0.002814 | 0.002841 |
| Std. Dev. | 0.0007228 | 0.0006949 | 0.0005933 |
| Upper Lim. | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.0029 | 0.0004 | 0.00078 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | DPZ-02 | MCM-04 | MCM-05 | MCM-06 | MCM-07 | MCM-12 | MCM-14 | MCM-17 |
|------------|-----------|------------|------------|--------|------------|------------|------------|------------|
| 8/30/2016 | | | | | | <0.0063 | <0.0063 | |
| 8/31/2016 | | | <0.02 | 0.212 | 0.0066 | | | |
| 10/25/2016 | | | | | | | | <0.0063 |
| 11/30/2016 | | | 0.0132 | 0.129 | 0.0281 | <0.0063 | <0.0063 | 0.0072 |
| 2/15/2017 | | | | | | <0.0063 | <0.0063 | 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 | | | |
| 4/4/2018 | | 0.0023 (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) | | | |
| 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 | | | |
| 11/6/2018 | | 0.013 | | | 0.012 | | 0.0014 (J) | <0.0063 |
| 11/7/2018 | | | 0.002 (J) | 0.5 | | 0.0057 | | |
| 11/27/2018 | | | 0.0016 (J) | 0.5 | 0.011 | | | |
| 3/6/2019 | | | | 0.49 | | | | |
| 3/26/2019 | | | 0.0018 (J) | 0.3 | 0.0078 | | | |
| 7/2/2019 | | 0.015 (J) | | 0.37 | 0.027 | | | |
| 8/26/2019 | | | | | | | 0.0022 (J) | |
| 8/27/2019 | | 0.0072 | | | | 0.0011 (J) | | 0.0024 (J) |
| 8/28/2019 | | | 0.0019 (J) | 0.5 | 0.011 | | | |
| 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 | | | | | | <0.0063 | <0.0063 | <0.0063 |
| 3/28/2020 | <0.1 | 0.0034 (J) | <0.02 | 0.3 | 0.012 | | | |
| 10/12/2020 | | | | | | <0.0063 | | |
| 10/13/2020 | | 0.0022 (J) | | | | | <0.0063 | <0.0063 |
| 10/14/2020 | | | | 0.43 | 0.013 | | | |
| 10/15/2020 | 0.021 | | 0.024 | | | | | |
| 1/4/2021 | | | 0.0072 | | | | | |
| 3/2/2021 | | | | | | <0.0063 | <0.0063 | |
| 3/3/2021 | | | | | | | | <0.0063 |
| 3/4/2021 | 0.017 (J) | 0.0018 (J) | <0.02 | 0.35 | 0.015 (J) | | | |
| 9/13/2021 | | | | | | <0.0063 | <0.0063 | |
| 9/14/2021 | 0.022 | 0.0047 (J) | 0.02 (J) | 0.51 | 0.013 (J) | | | <0.0063 |
| 3/1/2022 | 0.015 (J) | | 0.011 (J) | 0.24 | | | | |
| 3/2/2022 | | | | | 0.009 (J) | | | |
| 3/3/2022 | | 0.0041 | | | | <0.0063 | <0.0063 | <0.0063 |
| 9/20/2022 | 0.021 | | | 0.18 | | | | |
| 9/21/2022 | | 0.0017 (J) | 0.0077 | | 0.01 | <0.0063 | <0.0063 | <0.0063 |
| Mean | 0.03267 | 0.005459 | 0.01484 | 0.3416 | 0.01559 | 0.004331 | 0.004863 | 0.004518 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | DPZ-02 | MCM-04 | MCM-05 | MCM-06 | MCM-07 | MCM-12 | MCM-14 | MCM-17 |
|------------|--------|----------|----------|--------|----------|----------|----------|----------|
| Std. Dev. | 0.0331 | 0.004106 | 0.01165 | 0.1364 | 0.007958 | 0.002576 | 0.002306 | 0.002169 |
| Upper Lim. | 0.1 | 0.007099 | 0.01548 | 0.419 | 0.01945 | 0.0063 | 0.0067 | 0.0063 |
| Lower Lim. | 0.015 | 0.002848 | 0.004029 | 0.2642 | 0.01054 | 0.001 | 0.0014 | 0.0018 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (M1) |
| 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 |
| Mean | 0.0784 | 0.06769 | 0.04808 | 0.1017 | 0.1589 | 0.1113 | 0.09276 | 0.09943 |
| Std. Dev. | 0.01101 | 0.07126 | 0.1054 | 0.05647 | 0.09263 | 0.02224 | 0.05218 | 0.05093 |
| Upper Lim. | 0.09686 | 0.07989 | 0.04117 | 0.1371 | 0.2 | 0.1257 | 0.1267 | 0.1326 |
| Lower Lim. | 0.05994 | 0.03217 | 0.01055 | 0.06635 | 0.1 | 0.09678 | 0.05881 | 0.0663 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-04 | MCM-05 | MCM-07 | MCM-12 | MCM-14 | MCM-17 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 8/30/2016 | | | | 0.0003 (J) | <0.0025 | |
| 8/31/2016 | | <0.0025 | <0.0025 | | | |
| 10/25/2016 | | | | | | 0.0004 (J) |
| 11/30/2016 | | <0.0025 | <0.0025 | 0.0004 (J) | <0.0025 | 0.0003 (J) |
| 2/15/2017 | | | | 0.0004 (J) | <0.0025 | <0.002 |
| 2/16/2017 | | <0.0025 | <0.0025 | | | |
| 5/31/2017 | | | | 0.0005 (J) | 0.0001 (J) | 0.0002 (J) |
| 6/1/2017 | 0.0001 (J) | | | | | |
| 6/2/2017 | | <0.0025 | <0.0025 | | | |
| 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) | <0.0025 | <0.0025 | | | |
| 4/4/2018 | <0.0025 | | | | | |
| 5/8/2018 | 0.00025 (J) | | | | | |
| 6/19/2018 | | | | 0.00065 (J) | <0.0025 | 0.00032 (J) |
| 6/20/2018 | 0.00021 (J) | <0.0025 | | | | |
| 6/21/2018 | | | <0.0025 | | | |
| 9/25/2018 | | | | 0.00066 (J) | 5E-05 (J) | |
| 9/26/2018 | | | | | | 0.00024 (J) |
| 9/27/2018 | 0.00031 (J) | <0.0025 | 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 | | <0.0025 | <0.0025 | | | |
| 10/15/2019 | 0.00035 (J) | | | 0.00079 (J) | <0.0025 | |
| 10/16/2019 | | <0.0025 | | | | 0.00014 (J) |
| 10/17/2019 | | | 7.8E-05 (J) | | | |
| 3/27/2020 | | | | <0.005 | <0.0025 | <0.002 |
| 3/28/2020 | <0.0025 | <0.0025 | <0.0025 | | | |
| 10/12/2020 | | | | 0.001 (J) | | |
| 10/13/2020 | <0.0025 | | | | <0.0025 | <0.002 |
| 10/14/2020 | | | <0.0025 | | | |
| 10/15/2020 | | <0.0025 | | | | |
| 1/4/2021 | | <0.0025 | | | | |
| 3/2/2021 | | | | <0.005 | <0.0025 | |
| 3/3/2021 | | | | | | <0.002 |
| 3/4/2021 | <0.0025 | <0.0025 | <0.0025 | | | |
| 9/13/2021 | | | | 0.0011 | <0.0025 | |
| 9/14/2021 | <0.0025 | <0.0025 | <0.0025 | | | <0.002 |
| 3/1/2022 | | <0.0025 | | | | |
| 3/2/2022 | | | <0.0025 | | | |
| 3/3/2022 | 0.00025 | | | 0.0012 (J) | <0.0025 | <0.002 |
| 9/21/2022 | <0.0025 | <0.0025 | <0.0025 | 0.0011 (J) | <0.0025 | 0.00029 (J) |
| Mean | 0.001129 | 0.002356 | 0.002048 | 0.0009425 | 0.001753 | 0.0009081 |
| Std. Dev. | 0.001106 | 0.0005932 | 0.0009713 | 0.0006676 | 0.001145 | 0.0008755 |
| Upper Lim. | 0.0025 | 0.0025 | 0.0025 | 0.001226 | 0.0025 | 0.002 |
| Lower Lim. | 0.00021 | 5.4E-05 | 0.00012 | 0.0005293 | 0.0001 | 0.0002 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-04 | MCM-07 | MCM-17 |
|------------|-----------|------------|-----------|
| 8/31/2016 | | <0.0025 | |
| 10/25/2016 | | | <0.0025 |
| 11/30/2016 | | <0.0025 | <0.0025 |
| 2/15/2017 | | | <0.0025 |
| 2/16/2017 | | <0.0025 | |
| 5/31/2017 | | | <0.0025 |
| 6/1/2017 | <0.0025 | | |
| 6/2/2017 | | <0.0025 | |
| 8/2/2017 | <0.0025 | | |
| 8/15/2017 | | | <0.0025 |
| 8/17/2017 | <0.0025 | <0.0025 | |
| 4/4/2018 | <0.0025 | | |
| 5/8/2018 | <0.0025 | | |
| 6/19/2018 | | | <0.0025 |
| 6/20/2018 | <0.0025 | | |
| 6/21/2018 | | <0.0025 | |
| 9/26/2018 | | | 9.3E-05 |
| 9/27/2018 | <0.0025 | <0.0025 | |
| 11/6/2018 | <0.0025 | <0.0025 | <0.0025 |
| 8/27/2019 | <0.0025 | | <0.0025 |
| 8/28/2019 | | <0.0025 | |
| 3/27/2020 | | | <0.0025 |
| 3/28/2020 | <0.0025 | <0.0025 | |
| 9/14/2021 | <0.0025 | <0.0025 | <0.0025 |
| 3/2/2022 | | <0.0025 | |
| 3/3/2022 | 0.00043 | | <0.0025 |
| 9/21/2022 | <0.0025 | 0.0002 (J) | <0.0025 |
| Mean | 0.002341 | 0.002323 | 0.002315 |
| Std. Dev. | 0.0005741 | 0.0006379 | 0.0006676 |
| Upper Lim. | 0.0025 | 0.0025 | 0.0025 |
| Lower Lim. | 0.00043 | 0.0002 | 9.3E-05 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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) |
| Mean | 0.005025 | 0.005503 | 0.00701 | 0.005064 | 0.007221 | 0.005198 | 0.01063 |
| Std. Dev. | 0.004479 | 0.004676 | 0.00438 | 0.003825 | 0.002319 | 0.00434 | 0.003069 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01225 |
| Lower Lim. | 0.00085 | 0.0007 | 0.001 | 0.002 | 0.005 | 0.0015 | 0.007354 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | | | 0.00052 |
| 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) |
| Mean | 0.004518 | 0.002333 | 0.002276 | 0.002276 | 0.001762 | 0.002381 | 0.001992 |
| Std. Dev. | 0.002316 | 0.0005536 | 0.0006399 | 0.0006298 | 0.0009856 | 0.000475 | 0.0009129 |
| Upper Lim. | 0.0063 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 0.0025 |
| Lower Lim. | 0.0025 | 0.0019 | 0.0009 | 0.0011 | 0.00053 | 0.0006 | 0.00052 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) | 2.47 (D) | 5.4 (D) | | | |
| 10/25/2016 | | | | | | | | 2.22 |
| 11/30/2016 | | | 1.66 | 1.6 | 3.13 | 4.37 | 0.438 (U) | 2.01 |
| 2/15/2017 | | | | | | 2.21 | 0.3 (U) | 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 (U) | 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 | | | 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 (U) | | | | |
| 3/2/2022 | | | | | 5.66 (U) | | | |
| 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 |
| Mean | 7.883 | 4.316 | 2.718 | 5.191 | 7.539 | 2.603 | 5.398 | 5.269 |
| Std. Dev. | 0.9229 | 2.278 | 2.163 | 3.243 | 2.802 | 0.7328 | 3.082 | 3.011 |
| Upper Lim. | 9.978 | 5.506 | 2.71 | 8.58 | 9.295 | 3.079 | 7.329 | 8.82 |
| Lower Lim. | 5.787 | 2.866 | 1.43 | 1.83 | 5.783 | 2.126 | 3.467 | 2.22 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (D) | | | |
| 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 | | | | | | | | <0.1 |
| 3/4/2021 | <0.1 | <0.1 | 0.45 | <0.1 | <0.1 | | | |
| 9/13/2021 | | | | | | 1.4 | <0.1 | |
| 9/14/2021 | <0.1 | 0.05 | <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 |
| Mean | 0.102 | 0.1331 | 0.4058 | 0.244 | 0.2748 | 1.1 | 0.218 | 0.5285 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | DPZ-02 | MCM-04 | MCM-05 | MCM-06 | MCM-07 | MCM-12 | MCM-14 | MCM-17 |
|------------|----------|--------|--------|--------|--------|--------|--------|--------|
| Std. Dev. | 0.004472 | 0.1219 | 0.2315 | 0.2623 | 0.2796 | 0.3205 | 0.1922 | 0.4963 |
| Upper Lim. | 0.11 | 0.12 | 0.4419 | 0.3 | 0.42 | 1.28 | 0.49 | 1.2 |
| Lower Lim. | 0.1 | 0.095 | 0.2033 | 0.1 | 0.1 | 0.987 | 0.1 | 0.1 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | | 0.00027 |
| 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 |
| Mean | 0.004718 | 0.004713 | 0.004086 | 0.003518 | 0.004692 | 0.003809 |
| Std. Dev. | 0.001164 | 0.001184 | 0.001965 | 0.002276 | 0.00123 | 0.00213 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0002 | 0.00012 | 0.0002 | 0.0001 | 8E-05 | 0.00027 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 (J) | <0.025 | 0.014 (J) | 0.064 | 0.027 (J) | | | |
| 6/16/2020 | 0.096 (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) | | | |
| 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) |
| Mean | 0.07907 | 0.01347 | 0.05995 | 0.07608 | 0.04114 | 0.01369 | 0.03614 | 0.02013 |
| Std. Dev. | 0.02995 | 0.01192 | 0.1317 | 0.03253 | 0.0352 | 0.005744 | 0.01761 | 0.007746 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | DPZ-02 | MCM-04 | MCM-05 | MCM-06 | MCM-07 | MCM-12 | MCM-14 | MCM-17 |
|------------|---------|--------|--------|---------|---------|--------|---------|---------|
| Upper Lim. | 0.09839 | 0.025 | 0.0376 | 0.09647 | 0.04934 | 0.013 | 0.04813 | 0.02516 |
| Lower Lim. | 0.06881 | 0.0015 | 0.021 | 0.0557 | 0.02023 | 0.0102 | 0.02964 | 0.01509 |

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | | | | | 3.6E-05 |
| 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 | | |
| 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 |
| Mean | 0.0002392 | 0.0001878 | 0.0001971 | 0.0002362 | 0.0002354 | 0.0002212 |
| Std. Dev. | 0.0001414 | 4.382E-05 | 1.069E-05 | 0.0001304 | 0.0001276 | 0.0001337 |
| 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 | 3.6E-05 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-04 | MCM-05 | MCM-06 | MCM-07 | MCM-17 |
|------------|-------------|-------------|------------|-------------|----------|
| 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 |
| 2/15/2017 | | | | | <0.01 |
| 2/16/2017 | | <0.01 | <0.01 | <0.01 | |
| 5/31/2017 | | | | | <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 |
| 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 |
| 6/20/2018 | <0.01 | <0.01 | <0.01 | | |
| 6/21/2018 | | | | <0.01 | |
| 9/26/2018 | | | | | 0.0019 |
| 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) | | |
| 3/6/2019 | | | <0.01 | | |
| 8/27/2019 | <0.01 | | | | <0.01 |
| 8/28/2019 | | <0.01 | 0.0017 (J) | <0.01 | |
| 10/15/2019 | <0.01 | | | | |
| 10/16/2019 | | <0.01 | | | <0.01 |
| 10/17/2019 | | | 0.0017 (J) | <0.01 | |
| 3/27/2020 | | | | | <0.01 |
| 3/28/2020 | <0.01 | <0.01 | <0.01 | <0.01 | |
| 9/14/2021 | <0.01 | 0.0099 (J) | <0.01 | <0.01 | <0.01 |
| 3/1/2022 | | <0.01 | <0.01 | | |
| 3/2/2022 | | | | <0.01 | |
| 3/3/2022 | 0.00015 (J) | | | | <0.01 |
| 9/20/2022 | | | 0.0013 (J) | | |
| 9/21/2022 | <0.01 | 0.00095 (J) | | 0.00095 (J) | <0.01 |
| Mean | 0.009296 | 0.008718 | 0.007307 | 0.009354 | 0.009421 |
| Std. Dev. | 0.002633 | 0.003238 | 0.003952 | 0.002419 | 0.002165 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Lower Lim. | 0.00015 | 0.0099 | 0.0017 | 0.00095 | 0.0019 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | 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 | | 0.0028 (J) | | | | | |
| 1/4/2021 | | <0.005 | | | | | |
| 3/2/2021 | | | | | <0.005 | <0.005 | |
| 3/3/2021 | | | | | | | <0.005 |
| 3/4/2021 | 0.00038 (J) | <0.005 | <0.005 | <0.005 | | | |
| 9/13/2021 | | | | | <0.005 | <0.005 | |
| 9/14/2021 | <0.005 | <0.005 | <0.005 | <0.005 | | | 0.0021 |
| 3/1/2022 | | <0.005 | <0.005 | | | | |
| 3/2/2022 | | | | <0.005 | | | |
| 3/3/2022 | 0.00012 (J) | | | | <0.005 | <0.005 | <0.005 |
| 9/20/2022 | | | <0.005 | | | | |
| 9/21/2022 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| Mean | 0.00425 | 0.004359 | 0.004353 | 0.004175 | 0.003637 | 0.004144 | 0.004262 |
| Std. Dev. | 0.001681 | 0.001203 | 0.001779 | 0.001255 | 0.001615 | 0.001456 | 0.001976 |
| Upper Lim. | 0.005 | 0.005 | 0.0054 | 0.005 | 0.005 | 0.0057 | 0.0067 |
| Lower Lim. | 0.0025 | 0.0028 | 0.0022 | 0.0023 | 0.0019 | 0.0019 | 0.0021 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/22/2022 2:00 PM View: Appendix IV - Confidence Intervals

Plant McManus Client: Southern Company Data: McManus Ash Pond Data

| | MCM-06 | MCM-17 |
|------------|-------------|-----------|
| 8/31/2016 | <0.001 | |
| 10/25/2016 | | <0.001 |
| 11/30/2016 | <0.001 | <0.001 |
| 2/15/2017 | | <0.001 |
| 2/16/2017 | <0.001 | |
| 5/31/2017 | | <0.001 |
| 6/2/2017 | <0.001 | |
| 8/15/2017 | | <0.001 |
| 8/17/2017 | <0.001 | |
| 6/19/2018 | | <0.001 |
| 6/20/2018 | <0.001 | |
| 9/26/2018 | | 0.00014 |
| 9/27/2018 | <0.001 | |
| 11/6/2018 | | <0.001 |
| 11/7/2018 | <0.001 | |
| 3/6/2019 | <0.001 | |
| 8/27/2019 | | <0.001 |
| 8/28/2019 | <0.001 | |
| 10/16/2019 | | <0.001 |
| 10/17/2019 | 7.6E-05 (J) | |
| 3/27/2020 | | <0.001 |
| 3/28/2020 | <0.001 | |
| 9/14/2021 | <0.001 | <0.001 |
| 3/1/2022 | <0.001 | |
| 3/3/2022 | | <0.001 |
| 9/20/2022 | <0.001 | |
| 9/21/2022 | | <0.001 |
| Mean | 0.0009384 | 0.0009386 |
| Std. Dev. | 0.0002386 | 0.0002298 |
| Upper Lim. | 0.001 | 0.001 |
| Lower Lim. | 7.6E-05 | 0.00014 |

FIGURE I.

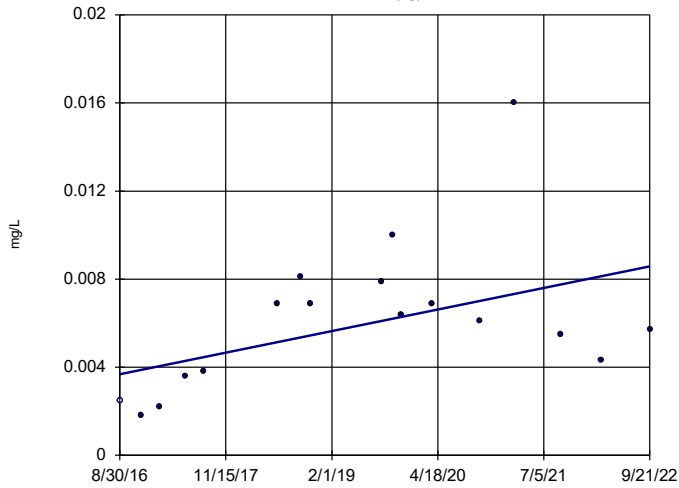
Appendix IV Trend Tests - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus Ash Pond Data Printed 12/22/2022, 2:04 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|----------------|-------------|------------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Arsenic (mg/L) | MCM-01 (bg) | 0.0008066 | 39 | 63 | No | 17 | 5.882 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-02 (bg) | 0 | 3 | 63 | No | 17 | 41.18 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-06 | 0.02021 | 26 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-11 (bg) | -0.00233 | -49 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-15 (bg) | 0.0001728 | 23 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-16 (bg) | 0 | -7 | -58 | No | 16 | 50 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-18 (bg) | -0.001407 | -37 | -48 | No | 14 | 14.29 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-19 (bg) | -0.0005489 | -7 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | MCM-20 (bg) | 0 | 1 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | DPZ-02 | -0.003763 | -9 | -18 | No | 7 | 14.29 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-01 (bg) | 0 | -11 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-02 (bg) | 0 | 3 | 58 | No | 16 | 93.75 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-06 | 0.008391 | 38 | 63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-11 (bg) | 0 | 13 | 58 | No | 16 | 43.75 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-15 (bg) | 0 | 17 | 58 | No | 16 | 56.25 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-16 (bg) | 0 | -11 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-18 (bg) | 0.007745 | 22 | 34 | No | 11 | 54.55 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-19 (bg) | -0.0007766 | -13 | -48 | No | 14 | 7.143 | n/a | n/a | 0.01 | NP |
| Lithium (mg/L) | MCM-20 (bg) | 0 | -1 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

MCM-01 (bg)

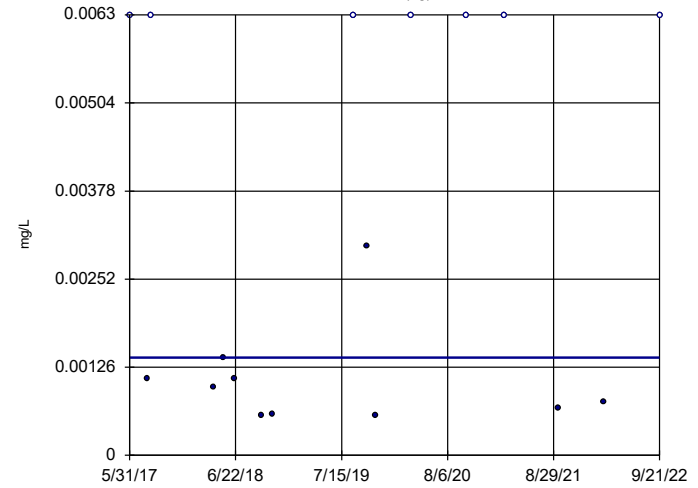


n = 17
 Slope = 0.0008066
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-02 (bg)

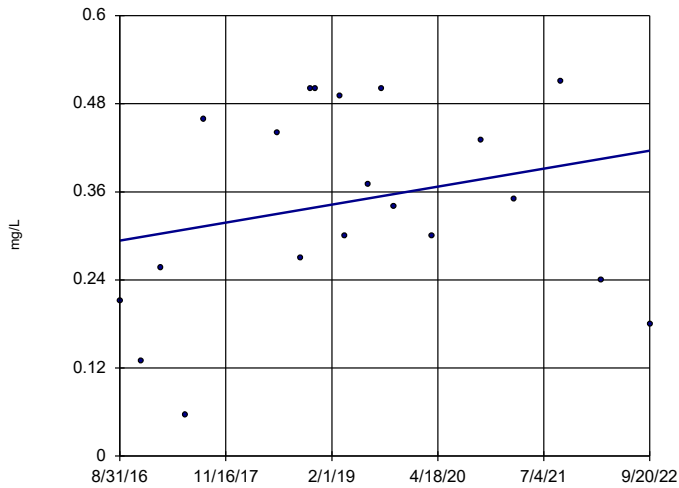


n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-06

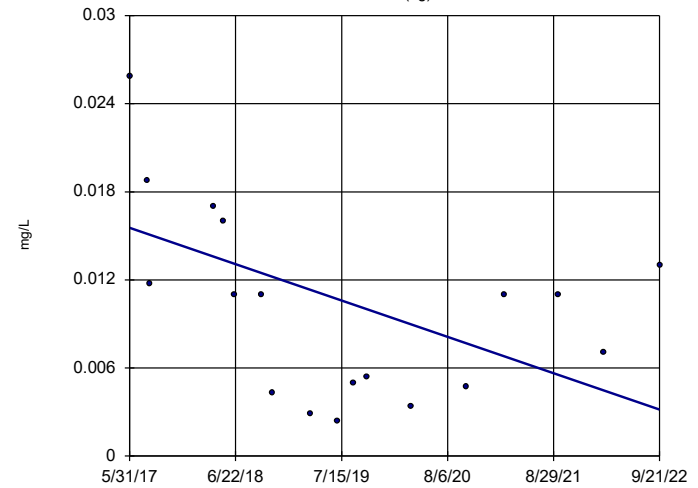


n = 20
 Slope = 0.02021
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-11 (bg)

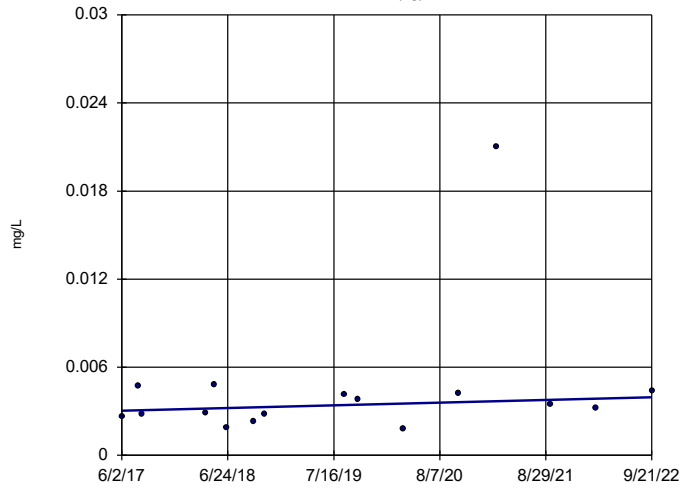


n = 18
 Slope = -0.00233
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-15 (bg)

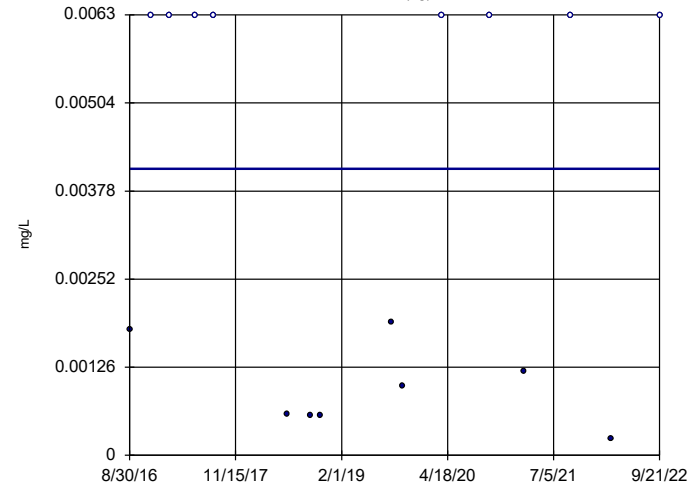


n = 16
 Slope = 0.0001728
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-16 (bg)

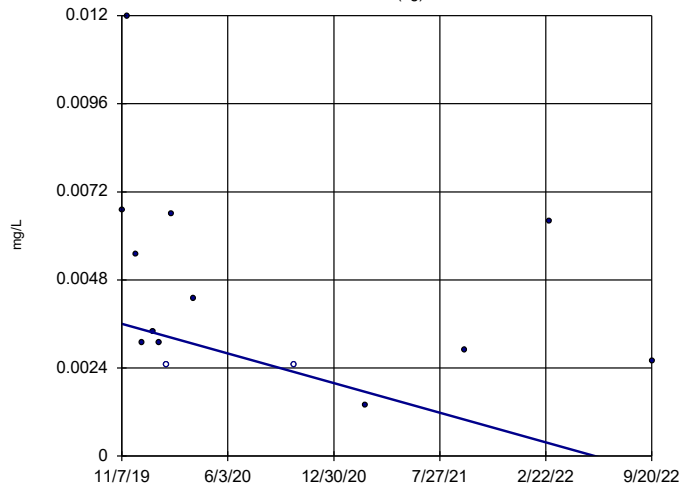


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-18 (bg)

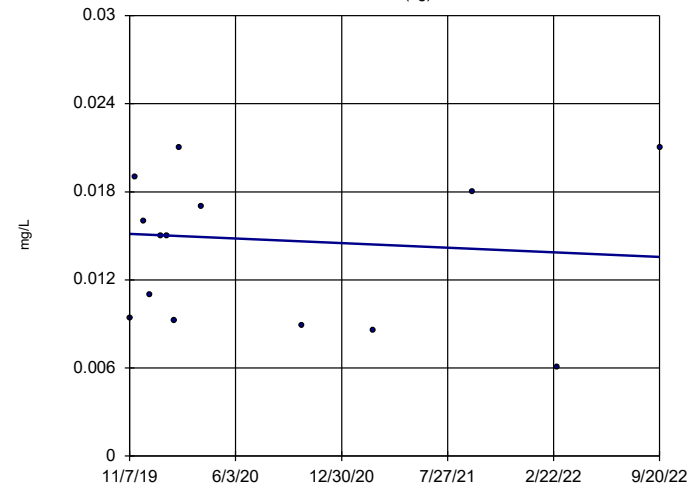


n = 14
 Slope = -0.001407
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-19 (bg)

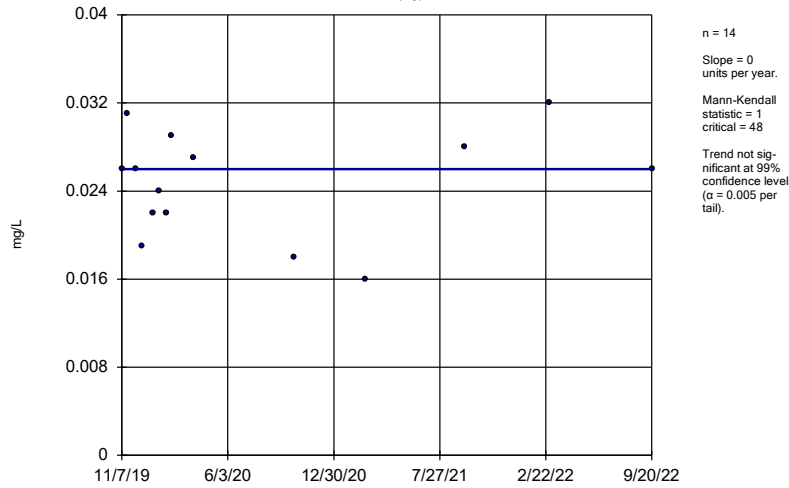


n = 14
 Slope = -0.0005489
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
 Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

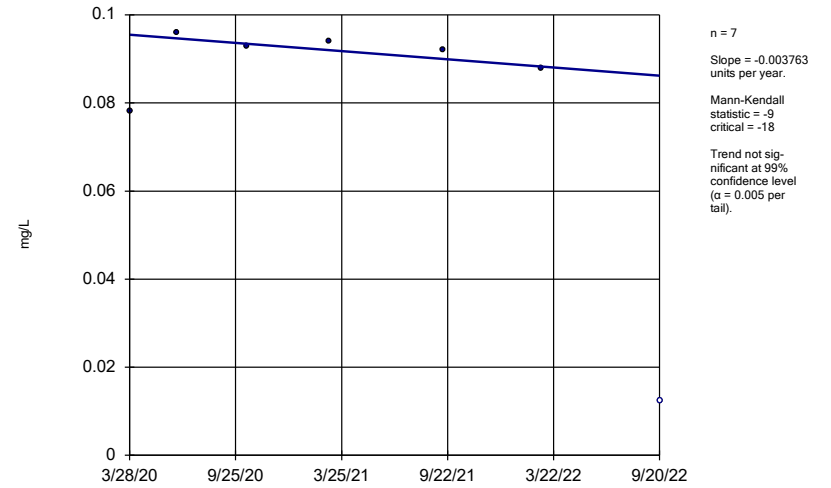
MCM-20 (bg)



Constituent: Arsenic Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

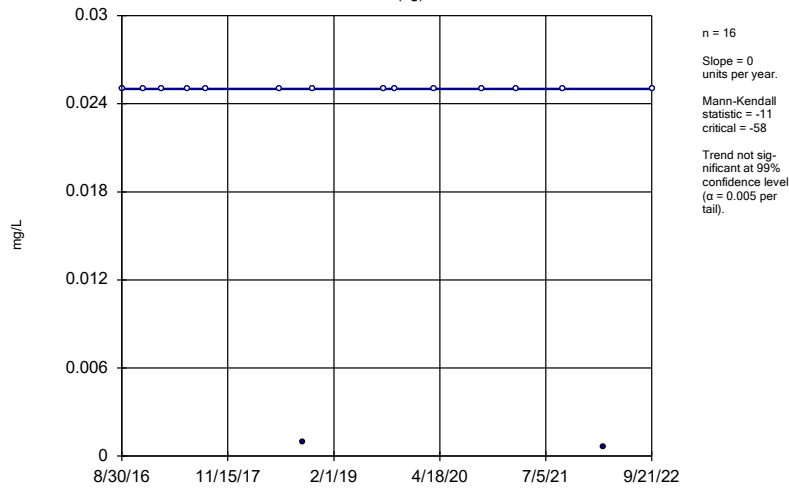
DPZ-02



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

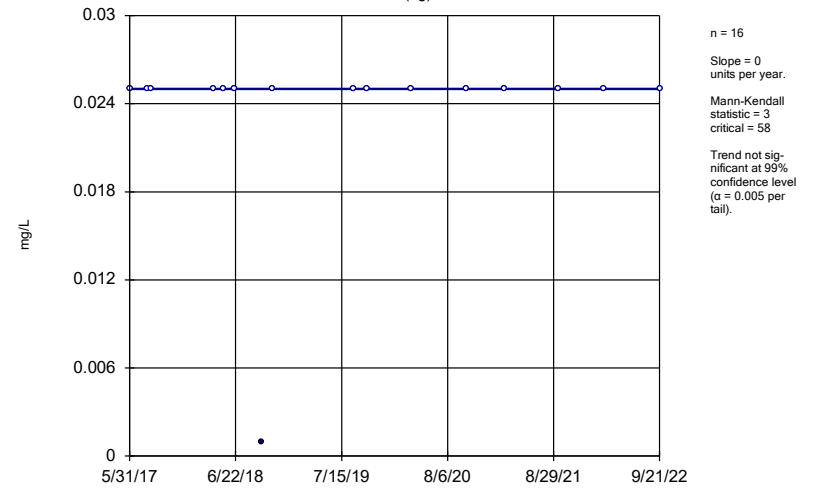
MCM-01 (bg)



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

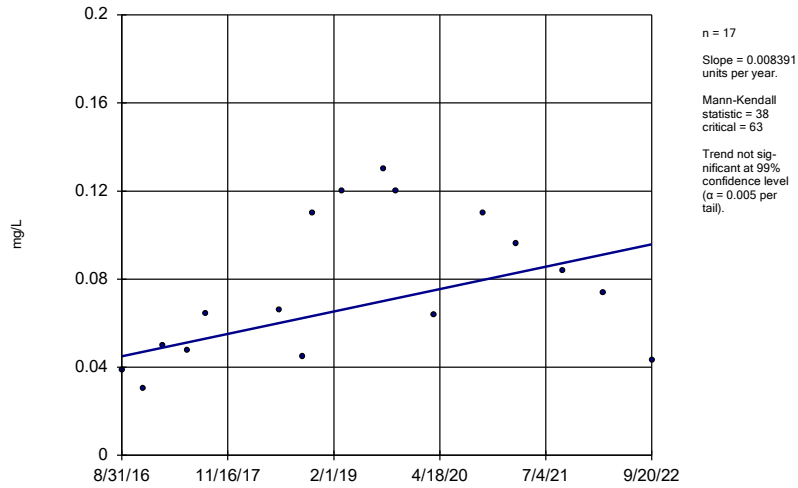
MCM-02 (bg)



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-06

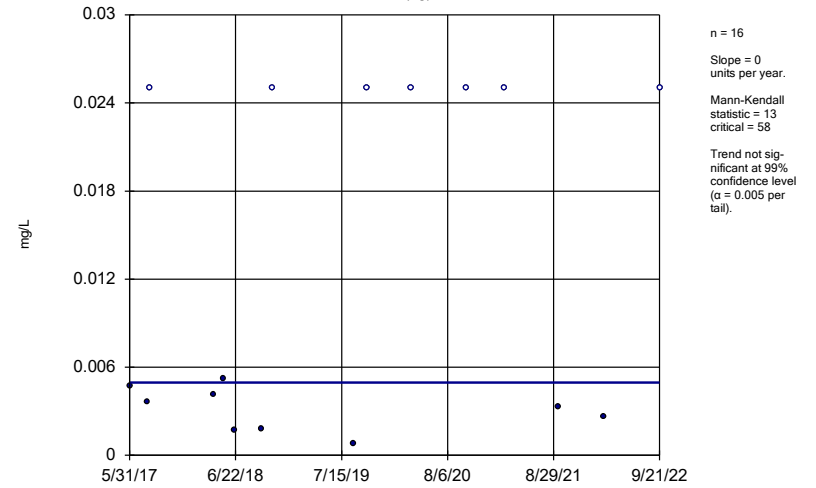


Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)

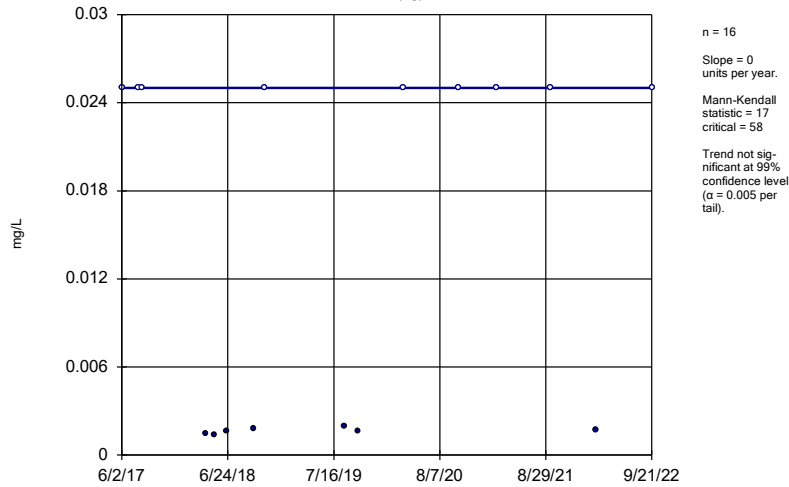


Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)

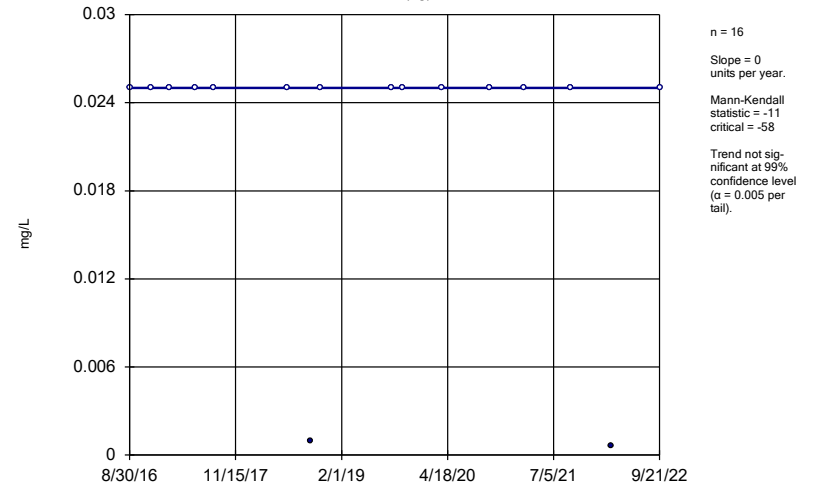


Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Hollow symbols indicate censored values.

Sen's Slope Estimator

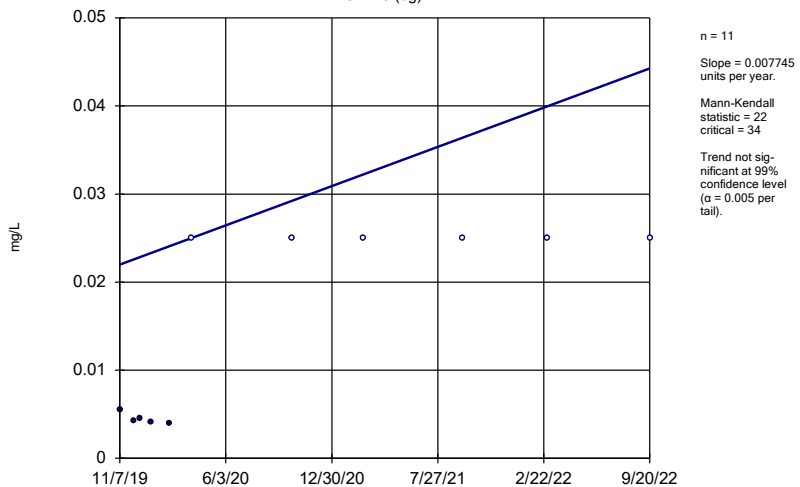
MCM-16 (bg)



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

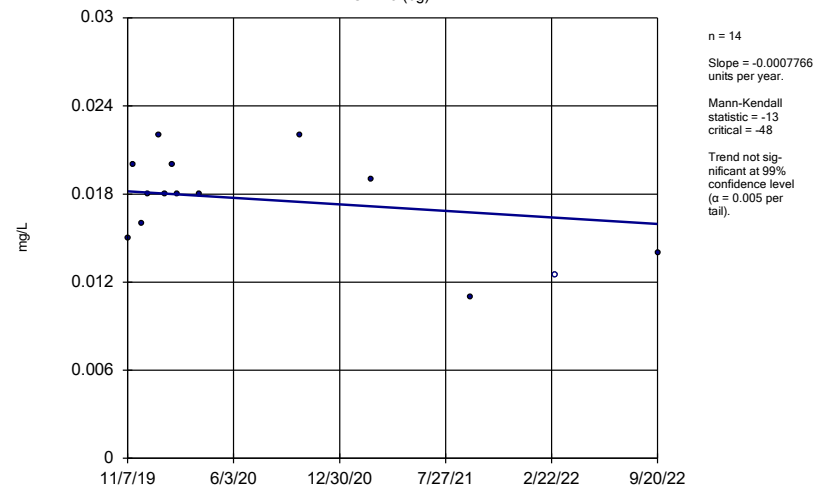
MCM-18 (bg)



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

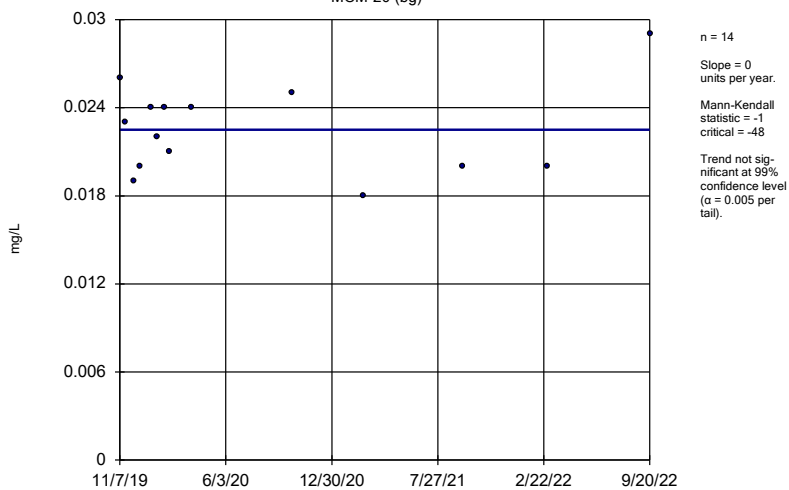
MCM-19 (bg)



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

Sen's Slope Estimator

MCM-20 (bg)



Constituent: Lithium Analysis Run 12/22/2022 2:01 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus Ash Pond Data

APPENDIX E

ANNUAL POTABLE WELL SURVEY ENVIRONMENTAL DATA RESOURCES (EDR) GEOCHECK®

Plant Mcmanus

1 Crispen Island Drive
Brunswick, GA 31523

Inquiry Number: 7195410.1s
December 05, 2022

The EDR GeoCheck® Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
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

PLANT MCMANUS
1 CRISPEN ISLAND DRIVE
BRUNSWICK, GA 31523

TARGET PROPERTY COORDINATES

Latitude (North): 31.217773 - 31° 13' 3.98"
Longitude (West): 81.544019 - 81° 32' 38.47"
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 448181.6
UTM Y (Meters): 3453679.8
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).

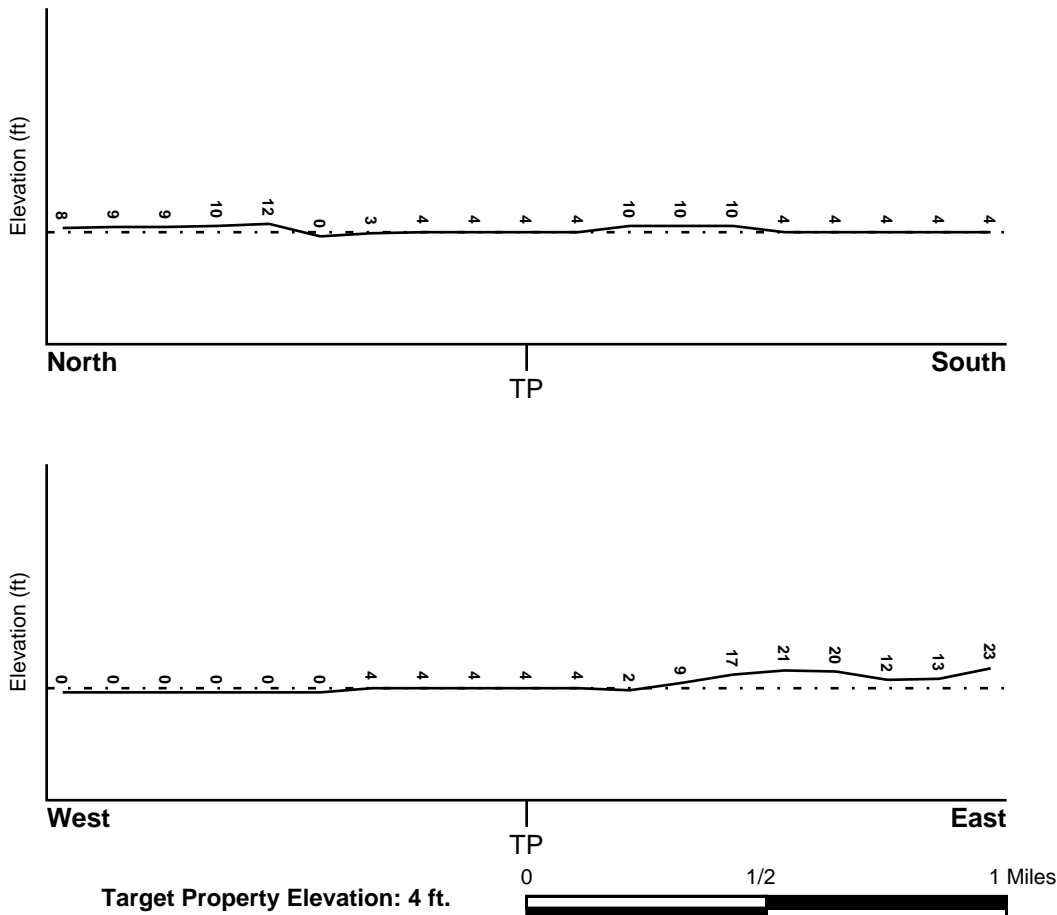
TOPOGRAPHIC INFORMATION

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 NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

| <u>Flood Plain Panel at Target Property</u> | <u>FEMA Source Type</u> |
|---|-------------------------|
| 13127C0208F | FEMA FIRM Flood data |
| <u>Additional Panels in search area:</u> | <u>FEMA Source Type</u> |
| 13127C0206F | FEMA FIRM Flood data |
| 13039C0075F | FEMA FIRM Flood data |
| 13127C0209F | FEMA FIRM Flood data |

NATIONAL WETLAND INVENTORY

| <u>NWI Quad at Target Property</u> | <u>NWI Electronic Data Coverage</u> |
|------------------------------------|--|
| 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.

| <u>MAP ID</u> | <u>LOCATION FROM TP</u> | <u>GENERAL DIRECTION GROUNDWATER FLOW</u> |
|---------------|-------------------------|---|
| 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

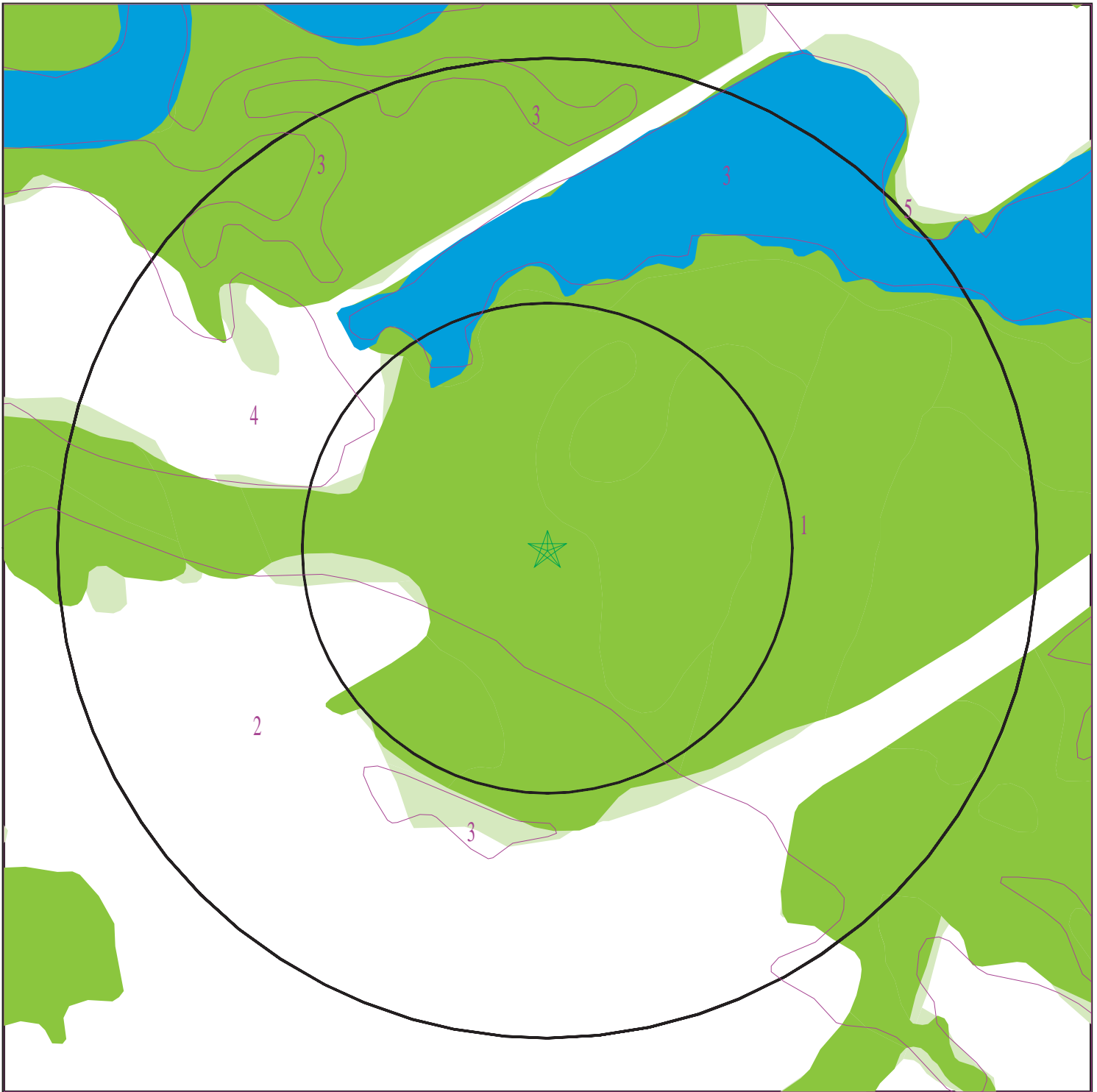
| | |
|---------|---|
| Era: | Cenozoic |
| System: | Quaternary |
| Series: | Holocene |
| Code: | Qh <i>(decoded above as Era, System & Series)</i> |

GEOLOGIC AGE IDENTIFICATION

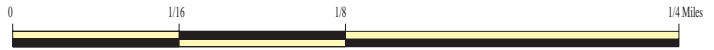
Category: Stratified Sequence

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 - 7195410.1s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Plant Mcmanus
ADDRESS: 1 Crispin Island Drive
Brunswick GA 31523
LAT/LONG: 31.217773 / 81.544019

CLIENT: ARCADIS U.S., Inc.
CONTACT: Becky Steever
INQUIRY #: 7195410.1s
DATE: December 05, 2022 1:32 pm

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: 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 | | | | | | | |
|------------------------|----------|-----------|----------------------------|--|---|---|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | 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 |
| 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: 2

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 77 inches

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|--|--------------|--|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | 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: 3

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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 | | | | | | | |
|------------------------|-----------|-----------|--------------------|---|---|---|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | 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 |
| 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 |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Pottsburg

Soil Surface Texture: 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: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|--|---|---|--------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 9 inches | sand | Granular materials (35 pct. or less passing No. 200), Fine Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42 Min: 14 | Max: 6 Min: 3.6 |
| 2 | 9 inches | 62 inches | sand | Granular materials (35 pct. or less passing No. 200), Fine Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42 Min: 14 | Max: 6 Min: 3.6 |
| 3 | 62 inches | 79 inches | sand | Granular materials (35 pct. or less passing No. 200), Fine Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42 Min: 14 | Max: 6 Min: 3.6 |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

| <u>DATABASE</u> | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS | 1.000 |
| Federal FRDS PWS | 1.000 |
| State Database | 1.000 |

FEDERAL USGS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-------------------------|
| A5 | USGS40000255109 | 1/4 - 1/2 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 East |
| E15 | USGS40000255192 | 1/2 - 1 Mile NE |
| F16 | USGS40000255185 | 1/2 - 1 Mile ENE |
| G19 | USGS40000255133 | 1/2 - 1 Mile East |
| F22 | USGS40000255189 | 1/2 - 1 Mile ENE |
| H23 | USGS40000255221 | 1/2 - 1 Mile NNE |
| I26 | USGS40000255223 | 1/2 - 1 Mile NNW |
| F27 | USGS40000255198 | 1/2 - 1 Mile NE |
| J31 | USGS40000255142 | 1/2 - 1 Mile East |
| J33 | USGS40000255151 | 1/2 - 1 Mile East |
| K35 | USGS40000255124 | 1/2 - 1 Mile East |
| L36 | USGS40000255235 | 1/2 - 1 Mile North |
| M38 | USGS40000255178 | 1/2 - 1 Mile ENE |
| N41 | USGS40000255206 | 1/2 - 1 Mile NE |
| L42 | USGS40000255245 | 1/2 - 1 Mile North |
| N44 | USGS40000255211 | 1/2 - 1 Mile NE |
| O47 | USGS40000255246 | 1/2 - 1 Mile NNW |
| P48 | USGS40000255251 | 1/2 - 1 Mile North |
| Q50 | USGS40000255252 | 1/2 - 1 Mile North |
| Q53 | USGS40000255256 | 1/2 - 1 Mile North |
| R54 | USGS40000255226 | 1/2 - 1 Mile NE |
| S56 | USGS40000255262 | 1/2 - 1 Mile NNE |
| R59 | USGS40000255230 | 1/2 - 1 Mile NE |
| T60 | USGS40000255220 | 1/2 - 1 Mile NE |

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|----------------|-------------------------|
| 1 | GA1270027 | 1/4 - 1/2 Mile South |
| 29 | GA1270058 | 1/2 - 1 Mile ENE |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

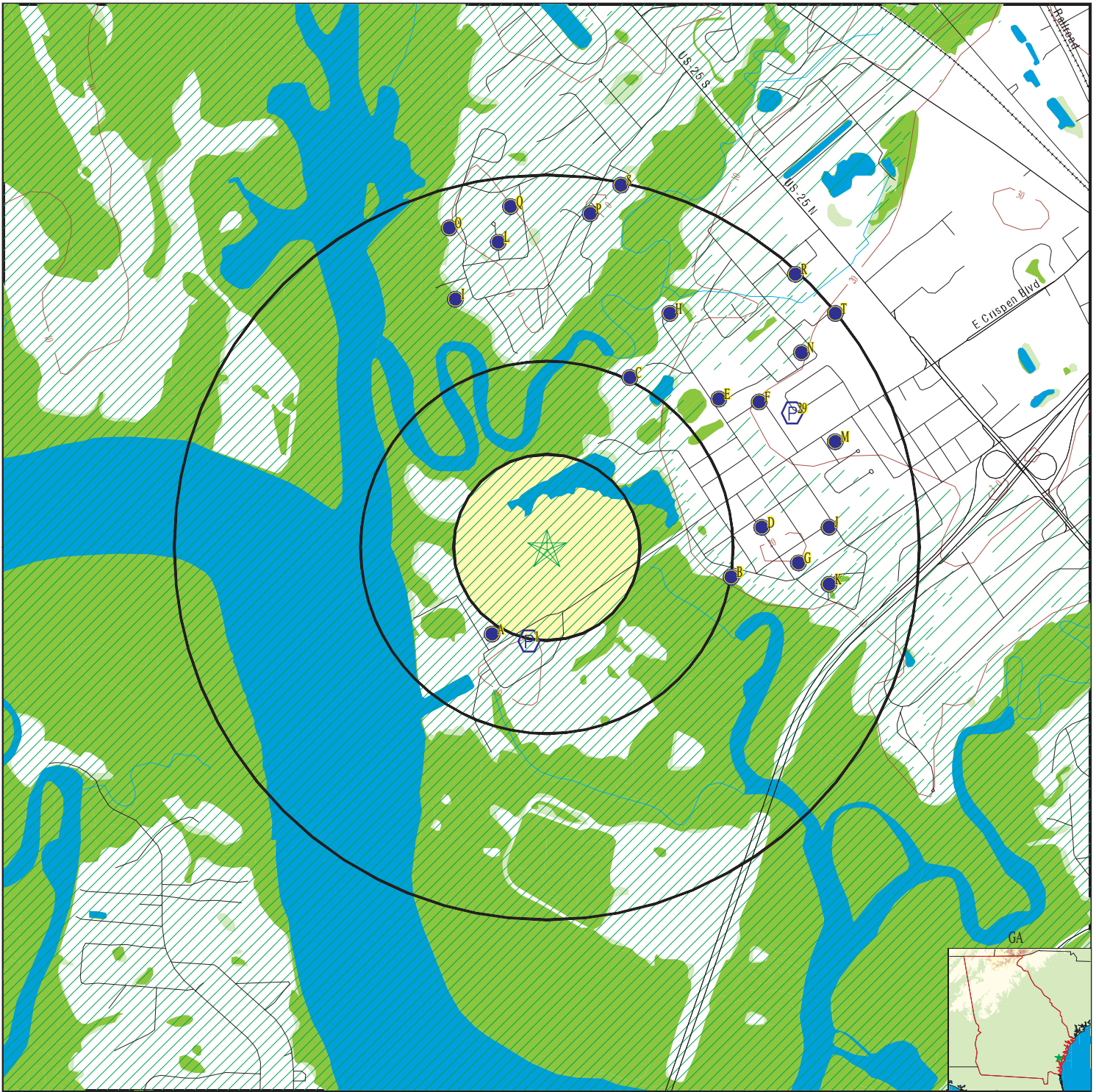
| MAP ID | WELL ID | LOCATION FROM TP |
|--------|---------|---------------------|
|--------|---------|---------------------|

Note: PWS System location is not always the same as well location.

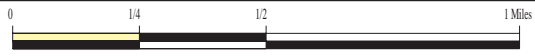
STATE DATABASE WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|--------|------------|---------------------|
| A2 | 0000005276 | 1/4 - 1/2 Mile SSW |
| A3 | 0000005277 | 1/4 - 1/2 Mile SSW |
| A4 | 0000005278 | 1/4 - 1/2 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 East |
| E14 | 0000005320 | 1/2 - 1 Mile NE |
| F17 | 0000005317 | 1/2 - 1 Mile ENE |
| G18 | 0000005289 | 1/2 - 1 Mile East |
| F20 | 0000005318 | 1/2 - 1 Mile ENE |
| F21 | 0000005319 | 1/2 - 1 Mile ENE |
| I24 | 0000005339 | 1/2 - 1 Mile NNW |
| H25 | 0000005338 | 1/2 - 1 Mile NNE |
| F28 | 0000005323 | 1/2 - 1 Mile NE |
| J30 | 0000005292 | 1/2 - 1 Mile East |
| J32 | 0000005298 | 1/2 - 1 Mile East |
| K34 | 0000005286 | 1/2 - 1 Mile East |
| L37 | 0000005350 | 1/2 - 1 Mile North |
| M39 | 0000005313 | 1/2 - 1 Mile ENE |
| N40 | 0000005329 | 1/2 - 1 Mile NE |
| L43 | 0000005360 | 1/2 - 1 Mile North |
| N45 | 0000005334 | 1/2 - 1 Mile NE |
| O46 | 0000005361 | 1/2 - 1 Mile NNW |
| P49 | 0000005365 | 1/2 - 1 Mile North |
| Q51 | 0000005366 | 1/2 - 1 Mile North |
| Q52 | 0000005367 | 1/2 - 1 Mile North |
| R55 | 0000005340 | 1/2 - 1 Mile NE |
| R57 | 0000005344 | 1/2 - 1 Mile NE |
| S58 | 0000005372 | 1/2 - 1 Mile NNE |
| T61 | 0000005337 | 1/2 - 1 Mile NE |

PHYSICAL SETTING SOURCE MAP - 7195410.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Wildlife Areas
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



SITE NAME: Plant Mcmanus
 ADDRESS: 1 Crispin Island Drive
 Brunswick GA 31523
 LAT/LONG: 31.217773 / 81.544019

CLIENT: ARCADIS U.S., Inc.
 CONTACT: Becky Steever
 INQUIRY #: 7195410.1s
 DATE: December 05, 2022 1:32 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
South
1/4 - 1/2 Mile
Higher

FRDS PWS GA1270027

| | | | |
|------------------------|-----------------------------|---------------------------|------------------------------------|
| Epa region: | 04 | State: | GA |
| Pwsid: | GA1270027 | Pwsname: | GEORGIA POWER-PLANT MCMANUS |
| Cityserved: | Not Reported | Stateserved: | GA |
| Ziperved: | Not Reported | Fipscounty: | 13127 |
| Status: | Active | Retpopsrvd: | 40 |
| Pwssvconn: | 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: | 0000046 | System name: | GEORGIA POWER-PLANT MCMANUS |
| System address: | GEORGIA POWER PLANT MCMANUS | System city: | BRUNSWICK |
| System address: | ONE CRISPEN ISLAND | System zip: | 31520 |
| System state: | GA | | |
| | | | |
| 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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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 Public Notif requested | 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 Violation/Reminder Notice | | |
| 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 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A2
SSW
1/4 - 1/2 Mile
Higher

GA WELLS 000005276

| | | | |
|---------------|------------------|------------------|-----------|
| 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: | 000005276 |

A3
SSW
1/4 - 1/2 Mile
Higher

GA WELLS 000005277

| | | | |
|---------------|------------------|------------------|--------------|
| 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: | 000005277 |

A4
SSW
1/4 - 1/2 Mile
Higher

GA WELLS 000005278

| | | | |
|---------------|------------------|------------------|--------------|
| 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: | 000005278 |

A5
SSW
1/4 - 1/2 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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|------------------------|-------------------------|-----------------------------|------------------------|
| 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 |

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 000005287

| | | | |
|---------------|----------------|------------------|-----------|
| 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: | 000005287 |

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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--|--------------|---------------------|--------------|
| 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 000005325

| | | | |
|---------------|-------------------|------------------|--------------|
| 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: | 000005325 |

**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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--|--------------|---------------------|--------------|
| 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
1/2 - 1 Mile
Higher**

GA WELLS 000005324

| | | | |
|---------------|--------------|------------------|-----------|
| 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: | 000005324 |

**D12
East
1/2 - 1 Mile
Higher**

FED USGS USGS40000255150

| | | | |
|------------------------|--------------|-----------------------------|-----------------------------------|
| 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
East
1/2 - 1 Mile
Higher**

GA WELLS 000005297

| | | | |
|---------------|--------------|------------------|-----------|
| 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: | 000005297 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E14
NE
1/2 - 1 Mile
Higher

GA WELLS 000005320

| | | | |
|---------------|----------------|------------------|-----------|
| 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: | 000005320 |

E15
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 | | |

F16
ENE
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

F17
ENE
1/2 - 1 Mile
Higher

GA WELLS 000005317

| | | | |
|---------------|---------------|------------------|-----------|
| 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: | 000005317 |

G18
East
1/2 - 1 Mile
Higher

GA WELLS 000005289

| | | | |
|---------------|----------------|------------------|-----------|
| 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: | 000005289 |

G19
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 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F20
ENE
1/2 - 1 Mile
Higher

GA WELLS 000005318

| | | | |
|---------------|----------------------|------------------|--------------|
| 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: | 000005318 |

F21
ENE
1/2 - 1 Mile
Higher

GA WELLS 000005319

| | | | |
|---------------|----------------------|------------------|--------------|
| 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: | 000005319 |

F22
ENE
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 |

H23
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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|------------------------|--------------|------------------------------|--------------|
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | 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 |

**I24
NNW
1/2 - 1 Mile
Higher**

GA WELLS 000005339

| | | | |
|---------------|---------------|------------------|-----------|
| 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: | 000005339 |

**H25
NNE
1/2 - 1 Mile
Higher**

GA WELLS 000005338

| | | | |
|---------------|--------------|------------------|--------------|
| 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: | 000005338 |

**I26
NNW
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 Units: | 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

F27
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 Units: | 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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F28
NE
1/2 - 1 Mile
Higher

GA WELLS 000005323

| | | | |
|---------------|--------------|------------------|--------------|
| 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: | 000005323 |

29
ENE
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 |
| Pwssvconn: | 14 | Psorce 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: | 0000050 | 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 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------|-------------------|--------------------|---------|
| 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 | | |

**J30
East
1/2 - 1 Mile
Higher**

GA WELLS 000005292

| | | | |
|---------------|----------------------|------------------|--------------|
| 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: | 000005292 |

**J31
East
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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---------------------|--------------|---------------------|--------------|
| 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 |

J32
East
1/2 - 1 Mile
Higher

GA WELLS 000005298

| | | | |
|---------------|--------------|------------------|-----------|
| 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: | 000005298 |

J33
East
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 | | |

K34
East
1/2 - 1 Mile
Higher

GA WELLS 000005286

| | | | |
|---------------|--------------|------------------|----------|
| 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 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer code: Not Reported Edr id: 0000005286

K35
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 | | |

L36
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 | | |

L37
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

Map ID
Direction
Distance
Elevation

Database EDR ID Number

M38
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40000255178

| | | | |
|------------------------|-----------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H313 | Type: | Well |
| Description: | PHILLIP SIMPSON | 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: | 19900715 |
| Well Depth: | 160 | Well Depth Units: | ft |
| Well Hole Depth: | 160 | Well Hole Depth Units: | ft |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1991-04-11 |
| Feet below surface: | 15.50 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

M39
ENE
1/2 - 1 Mile
Higher

GA WELLS 0000005313

| | | | |
|---------------|-----------------|------------------|------------|
| County code: | 127 | Well num: | 33H313 |
| Remarks: | PHILLIP SIMPSON | Lat: | 311318 |
| Lon: | 0813152 | Latlon datum: | NAD27 |
| Alt: | 24.0 | 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: | 19900715 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 0000005313 |

N40
NE
1/2 - 1 Mile
Higher

GA WELLS 0000005329

| | | | |
|---------------|--------------|------------------|------------|
| County code: | 127 | Well num: | 33H240 |
| Remarks: | J H McCLAIN | Lat: | 311330 |
| Lon: | 0813158 | Latlon datum: | NAD27 |
| Alt: | 19 | Alt datum: | NGVD29 |
| Depth: | 195 | Depth to casing: | 160 |
| Casing dia: | 4 | Casing matl: | S |
| Depth to top: | 160 | Depth to bot: | 195 |
| Opening type: | X | Constr date: | 19880122 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 0000005329 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

N41
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000255206

| | | | |
|------------------------|--------------|------------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H240 | Type: | Well |
| Description: | J H McCLAIN | HUC: | 03070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Surficial Aquifer |
| Aquifer Type: | Not Reported | Construction Date: | 19880122 |
| Well Depth: | 195 | 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: | 13.78 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

L42
North
1/2 - 1 Mile
Higher

FED USGS USGS40000255245

| | | | |
|------------------------|-----------------|------------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H299 | Type: | Well |
| Description: | WILLIAM WIGGINS | HUC: | 03070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Surficial Aquifer |
| Aquifer Type: | Not Reported | Construction Date: | 19910204 |
| 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: | 1991-02-04 |
| Feet below surface: | 4 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

L43
North
1/2 - 1 Mile
Higher

GA WELLS 000005360

| | | | |
|---------------|-----------------|------------------|-----------|
| County code: | 127 | Well num: | 33H299 |
| Remarks: | WILLIAM WIGGINS | Lat: | 311348 |
| Lon: | 0813247 | Latlon datum: | NAD27 |
| Alt: | 12.5 | Alt datum: | NGVD29 |
| Depth: | 160 | Depth to casing: | 115 |
| Casing dia: | 4 | Casing matl: | G |
| Depth to top: | 115 | Depth to bot: | 160 |
| Opening type: | X | Constr date: | 19910204 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005360 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

N44
NE
 1/2 - 1 Mile
 Higher

FED USGS USGS40000255211

| | | | |
|------------------------|--------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H258 | Type: | Well |
| Description: | R L NEWBORN | 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: | 19900525 |
| Well Depth: | 180 | Well Depth Units: | ft |
| Well Hole Depth: | 180 | Well Hole Depth Units: | ft |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1990-05-25 |
| Feet below surface: | 12.0 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

N45
NE
 1/2 - 1 Mile
 Higher

GA WELLS 000005334

| | | | |
|---------------|--------------|------------------|-----------|
| County code: | 127 | Well num: | 33H258 |
| Remarks: | R L NEWBORN | Lat: | 311331 |
| Lon: | 0813157 | Latlon datum: | NAD27 |
| Alt: | 19.0 | Alt datum: | NGVD29 |
| Depth: | 180 | Depth to casing: | 153 |
| Casing dia: | 4.5 | Casing matl: | P |
| Depth to top: | 153 | Depth to bot: | 180 |
| Opening type: | X | Constr date: | 19900525 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005334 |

O46
NNW
 1/2 - 1 Mile
 Higher

GA WELLS 000005361

| | | | |
|---------------|--------------|------------------|-----------|
| County code: | 127 | Well num: | 33H275 |
| Remarks: | CURTIS GOWEN | Lat: | 311348 |
| Lon: | 0813255 | Latlon datum: | NAD27 |
| Alt: | 7.5 | Alt datum: | NGVD29 |
| Depth: | 160 | Depth to casing: | 118 |
| Casing dia: | 4 | Casing matl: | G |
| Depth to top: | 118 | Depth to bot: | 160 |
| Opening type: | X | Constr date: | 19891027 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005361 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

O47
NNW
1/2 - 1 Mile
Higher

FED USGS USGS40000255246

| | | | |
|------------------------|--------------|------------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H275 | Type: | Well |
| Description: | CURTIS GOWEN | HUC: | 03070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Surficial Aquifer |
| Aquifer Type: | Not Reported | Construction Date: | 19891027 |
| 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: | 1991-04-17 |
| Feet below surface: | -.12 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

P48
North
1/2 - 1 Mile
Higher

FED USGS USGS40000255251

| | | | |
|------------------------|--------------|------------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H292 | Type: | Well |
| Description: | JOHN MARTIN | HUC: | 03070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Surficial Aquifer |
| Aquifer Type: | Not Reported | Construction Date: | 19900530 |
| 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: | 1990-05-30 |
| Feet below surface: | 7 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

P49
North
1/2 - 1 Mile
Higher

GA WELLS 000005365

| | | | |
|---------------|--------------|------------------|-----------|
| County code: | 127 | Well num: | 33H292 |
| Remarks: | JOHN MARTIN | Lat: | 311350 |
| Lon: | 0813232 | Latlon datum: | NAD27 |
| Alt: | 12.5 | Alt datum: | NGVD29 |
| Depth: | 160 | Depth to casing: | 118 |
| Casing dia: | 4.5 | Casing matl: | P |
| Depth to top: | 118 | Depth to bot: | 160 |
| Opening type: | X | Constr date: | 19900530 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005365 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Q50
North
1/2 - 1 Mile
Higher

FED USGS USGS40000255252

| | | | |
|------------------------|------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H300 | Type: | Well |
| Description: | JOHN WITTINGSLOW | 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: | 19900321 |
| 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: | 5.48 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

Q51
North
1/2 - 1 Mile
Higher

GA WELLS 000005366

| | | | |
|---------------|------------------|------------------|-----------|
| County code: | 127 | Well num: | 33H300 |
| Remarks: | JOHN WITTINGSLOW | Lat: | 311350 |
| Lon: | 0813247 | Latlon datum: | NAD27 |
| Alt: | 12.5 | 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: | 19900321 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005366 |

Q52
North
1/2 - 1 Mile
Higher

GA WELLS 000005367

| | | | |
|---------------|--------------|------------------|-----------|
| County code: | 127 | Well num: | 33H302 |
| Remarks: | JOHNNY DILLS | Lat: | 311352 |
| Lon: | 0813243 | Latlon datum: | NAD27 |
| Alt: | 12.5 | Alt datum: | NGVD29 |
| Depth: | 150 | Depth to casing: | 118 |
| Casing dia: | 4 | Casing matl: | G |
| Depth to top: | 118 | Depth to bot: | 150 |
| Opening type: | X | Constr date: | 19900208 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005367 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

Q53
North
1/2 - 1 Mile
Higher

FED USGS USGS40000255256

| | | | |
|------------------------|--------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H302 | Type: | Well |
| Description: | JOHNNY DILLS | 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: | 19900208 |
| Well Depth: | 150 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 2000-09-07 |
| Feet below surface: | 6.94 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |
| Level reading date: | 1991-04-10 | Feet below surface: | 4.02 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

R54
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000255226

| | | | |
|------------------------|---------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H267 | Type: | Well |
| Description: | GENE REYNOLDS | 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: | 19890523 |
| Well Depth: | 165 | 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: | 1991-04-16 |
| Feet below surface: | 10.65 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

R55
NE
1/2 - 1 Mile
Higher

GA WELLS 000005340

| | | | |
|---------------|---------------|------------------|-----------|
| County code: | 127 | Well num: | 33H267 |
| Remarks: | GENE REYNOLDS | Lat: | 311341 |
| Lon: | 0813158 | Latlon datum: | NAD27 |
| Alt: | 17.5 | Alt datum: | NGVD29 |
| Depth: | 165 | Depth to casing: | 125 |
| Casing dia: | 4.0 | Casing matl: | G |
| Depth to top: | 125 | Depth to bot: | 165 |
| Opening type: | X | Constr date: | 19890523 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005340 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

S56
NNE
1/2 - 1 Mile
Higher

FED USGS USGS40000255262

| | | | |
|------------------------|-------------------|------------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H200 | Type: | Well |
| Description: | SAPP, WOODROW JR. | HUC: | Not Reported |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Units: | 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: | 12 | Level reading date: | 1990-05-19 |
| Feet below surface: | 4.88 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |
| | | | |
| Level reading date: | 1988-05-23 | Feet below surface: | 3.79 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1987-10-14 | Feet below surface: | 2.41 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1983-11-09 | Feet below surface: | 0.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1983-03-17 | Feet below surface: | -0.65 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1983-02-24 | Feet below surface: | -0.35 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1983-01-25 | Feet below surface: | 0.89 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1982-11-16 | Feet below surface: | 1.17 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1982-08-17 | Feet below surface: | 1.30 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1982-07-19 | Feet below surface: | 1.69 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1982-06-22 | Feet below surface: | 1.86 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| | | | |
| Level reading date: | 1982-05-19 | Feet below surface: | 3.05 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

R57
NE
1/2 - 1 Mile
Higher

GA WELLS 000005344

| | | | |
|---------------|----------------|------------------|-----------|
| County code: | 127 | Well num: | 33H259 |
| Remarks: | JOHNNY SIMPSON | Lat: | 311342 |
| Lon: | 0813159 | Latlon datum: | NAD27 |
| Alt: | 17.6 | Alt datum: | NGVD29 |
| Depth: | 170 | Depth to casing: | 125 |
| Casing dia: | 4.0 | Casing matl: | G |
| Depth to top: | 125 | Depth to bot: | 170 |
| Opening type: | X | Constr date: | 19890623 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005344 |

S58
NNE
1/2 - 1 Mile
Higher

GA WELLS 000005372

| | | | |
|---------------|-------------------|------------------|--------------|
| County code: | 127 | Well num: | 33H200 |
| Remarks: | SAPP, WOODROW JR. | Lat: | 311354 |
| Lon: | 0813227 | 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: | 000005372 |

R59
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000255230

| | | | |
|------------------------|----------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H259 | Type: | Well |
| Description: | JOHNNY SIMPSON | 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: | 19890623 |
| Well Depth: | 170 | 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: | 1989-06-23 |
| Feet below surface: | 10 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

T60
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000255220

| | | | |
|------------------------|---------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 33H238 | Type: | Well |
| Description: | HARVEY CROSBY | 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: | 19880810 |
| Well Depth: | 180 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 2000-09-07 |
| Feet below surface: | 17.36 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |
| Level reading date: | 1991-04-30 | Feet below surface: | 14.88 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

T61
NE
1/2 - 1 Mile
Higher

GA WELLS 000005337

| | | | |
|---------------|---------------|------------------|-----------|
| County code: | 127 | Well num: | 33H238 |
| Remarks: | HARVEY CROSBY | Lat: | 311336 |
| Lon: | 0813152 | Latlon datum: | NAD27 |
| Alt: | 24 | Alt datum: | NGVD29 |
| Depth: | 180 | Depth to casing: | 132 |
| Casing dia: | 4 | Casing matl: | S |
| Depth to top: | 132 | Depth to bot: | 180 |
| Opening type: | X | Constr date: | 19880810 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | Not Reported | Edr id: | 000005337 |

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

| <u>Area</u> | <u>Average Activity</u> | <u>% <4 pCi/L</u> | <u>% 4-20 pCi/L</u> | <u>% >20 pCi/L</u> |
|-------------------------|-------------------------|----------------------|---------------------|-----------------------|
| 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.

STATE RECORDS

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

OTHER STATE DATABASE INFORMATION

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.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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