



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 2 (AP-2)

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581E

January 2023

CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring and Corrective Action Report, Plant Hammond – Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. 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).



Whitney B. Law
Georgia Professional Engineer No. 36641

January 31, 2023
Date

SUMMARY

This summary of the *2022 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period through December 2022 (referred to herein as the 2022 annual reporting period) at Georgia Power Company’s (Georgia Power’s) Plant Hammond Ash Pond 2 (AP-2) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Hammond is located at 5963 Alabama Highway SW, approximately 10 miles west of Rome in Floyd County, Georgia. Dewatered ash from AP-2 is excavated and transported to the nearby Huffaker Road facility, a permitted solid waste disposal location owned and operated by Georgia Power. The Site is located on the southwestern



Plant Hammond and the Site

portion of the Plant Hammond property. The Georgia Environmental Protection Division (GA EPD) approved closure permit no. 057-024D(CCR) for AP-2 on June 22, 2020.

Groundwater at the Site is monitored using a comprehensive monitoring well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 and May 2017. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures program were established in January 2018 and January 2019, respectively. During the 2022 annual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

During the 2022 annual reporting period, Geosyntec conducted two groundwater sampling events in January/February and August 2022 in support of the assessment monitoring program. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the federal CCR Rule, groundwater data from the semiannual

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

assessment monitoring events conducted during the 2022 annual reporting period were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the 2022 annual reporting period. On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated federal GWPS where a maximum contaminant level (MCL) had not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents is higher. Statistical evaluations for the January/February and August 2022 events were updated to reflect these changes.

Appendix III Constituent	January/February 2022	August 2022
Boron	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Calcium	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Chloride	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
pH	HGWC-18	HGWC-18
Sulfate	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Total Dissolved Solids	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Appendix IV Constituent⁴	January/February 2022	August 2022
Cobalt	HGWC-18, MW-33, MW-35	HGWC-18, MW-33, MW-35

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for the 2022 annual reporting period, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power’s CCR Rule Compliance website and provided to GA EPD semiannually. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed

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 combined radium 226 + 228

⁴ A statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, under separate cover.

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP-2	Ash Pond 2
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
DO	dissolved oxygen
EDR	Environmental Data Resources
ft/day	feet per day
ft/ft	feet per foot
GA-20	Georgia Highway 20
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	groundwater protection standard
HAR	Hydrogeologic Assessment Report
K_h	horizontal hydraulic conductivity
i	horizontal hydraulic gradient
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
Pace Analytical	Pace Analytical Services, LLC.
PE	professional engineer
PL	prediction limit
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2022 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 2 (AP-2) for the reporting period of January through December 2022 (referred to herein as the 2022 annual reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations. Also, the closure permit issued by GA EPD (i.e., no. 057-024D(CCR)) stipulates that groundwater monitoring is required while CCR waste remains in place at the CCR unit and for no less than 5-years after removal of the material.

Due to statistically significant levels (SSLs) of cobalt identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-2 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-2 in accordance with the assessment monitoring program established for the unit in 2018, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

The current reporting period groundwater data indicate that the SSLs for cobalt are horizontally and vertically delineated to below their corresponding groundwater protection standards (GWPS).

1.1 Site Description and Background

Plant Hammond is located in Floyd County, Georgia, approximately 10 miles west of Rome and is bordered by Georgia Highway 20 (GA-20) on the north, the Coosa River on

the south, Cabin Creek and industrial land on the east, and sparsely populated, forested, rural and industrial land on the west (**Figure 1**). The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

Plant Hammond was a four-unit, coal-fired electric generating facility. All four units at Plant Hammond were retired on July 29, 2019 and no longer produce electricity.

AP-2 is a 21-acre surface impoundment. Dewatered ash from AP-2 is excavated and transported to the nearby Huffaker Road facility, a permitted solid waste disposal location owned and operated by Georgia Power. Georgia Power will close AP-2 through removal of the CCR material from the CCR unit. The Closure Plan submitted to GA EPD as part of the closure permit application package describes the closure activities and requirements in accordance with § 257.102. The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Initial Written Closure Plan and published in 2016 to Georgia Power's CCR Rule Compliance website. Closure permit no. 057-024D(CCR) was approved by GA EPD on June 22, 2020.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-2 as described in the *Hydrogeologic Assessment Report Revision 01 – AP-2* (HAR Rev 01) submitted to GA EPD in December 2019 in support of the AP-2 solid waste handling permit (Geosyntec, 2019c).

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc., under the direction of Golder (Golder, 2018), indicates that AP-2 is underlain by the lower units of the Cambrian age Conasauga Formation, consisting of mostly calcareous shale. Based on review of subsurface investigations at AP-2, the bedrock was identified as predominantly calcareous shale and fissile black shale. AP-2 is underlain primarily by five lithologic units: (i) terrace alluvium; (ii) colluvium; (iii) residuum; (iv) partially weathered shale bedrock; and (v) unweathered shale bedrock.

Based on subsurface investigations, the alluvial deposits generally grade from a silt and silty clay to a clayey sand and silty sand to a sand and gravelly sand at depth. The colluvium consists of silty sand, silty clay with angular and sub-rounded chert fragments, and dolomite, sandstone, and shale fragments. Residual or native soils have been derived from the in-place weathering of the shale bedrock. The residuum is generally described as brown to yellow brown firm clayey silt with weathered shale fragments. The partially weathered shale zone occurs as an intermediate weathering stage between the residuum and the unweathered shale bedrock. The weathered material is described as black to dark gray to dark red hard, fissile shale and claystone. The unweathered shale bedrock was not encountered or directly observed in the historical borings advanced at the Site. However, based on geologic conditions in the region, weathering, fracturing and jointing decreases with depth, and the weathered rock material grades into competent bedrock.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at AP-2 is a regional groundwater aquifer that occurs primarily in the alluvial, colluvial, and residuum and within the weathered and fractured bedrock. The movement of groundwater in the soil can be characterized as low-to moderate permeability, porous media flow based on hydraulic field testing at the Site (slug testing). The groundwater flow in the shallow underlying bedrock is characterized as fracture flow and is expected to be very low permeability due to the preponderance of shale beneath AP-2. The regional groundwater flow direction is expected to be from north to south; however, the local flow direction beneath AP-2 is predominantly east to west with an additional southerly component. Under post-closure conditions, the groundwater flow direction is anticipated to more closely resemble the regional flow regime (north to south toward the Coosa River).

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-2 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment wells have been installed since 2018 to characterize the nature and extent of cobalt and molybdenum in groundwater downgradient of AP-2. Pursuant to § 257.95(g)(1)(iv), the wells classified as “assessment monitoring wells” (formerly known as “delineation wells”) 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. Former piezometers MW-33, MW-35, and MW-51 have been reclassified as assessment monitoring wells.

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 ACM program.

The locations of the detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during the 2022 annual reporting period and discusses any change in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

One piezometer (MW-52) was installed in January 2022 to provide additional data to characterize groundwater quality and flow conditions upgradient of AP-2. A well installation report that includes detailed boring and well construction logs for the installation of MW-52 is provided in **Appendix A**. The installation report was submitted to GA EPD under separate cover in June 2022 (Geosyntec, 2022b).

The well and piezometer networks are inspected semiannually to evaluate 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 January/February and August 2022, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix B**. This documentation was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-2 in January 2018. Since 2018, GA EPD adopted the federal GWPS on February 22, 2022, for cobalt, lead, lithium, and molybdenum (detailed in Section 4.1.2). Currently, cobalt is the only Appendix IV constituent identified at SSLs in exceedance of the GWPS; SSLs have been identified in HGWC-18, MW-33, and MW-35.

Pursuant to § 257.96, an ACM was initiated for AP-2 in January 2019. An *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 2 (AP-2)* (ACM Report) was subsequently prepared for AP-2 (Geosyntec, 2019b) and submitted to GA EPD in June 2019 and posted to Georgia Power’s CCR Rule Compliance website in July 2019. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, under separate cover (Geosyntec, 2022c). In accordance with § 257.96(b), groundwater

continues to be monitored at AP-2 under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, the semiannual assessment monitoring events were conducted in January/February and August 2022. The number of groundwater samples collected for analysis and the dates the samples were collected at AP-2 during the 2022 annual reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3.

2.3 Additional Evaluations

Due to the presence of surface water features immediately downgradient of select wells reporting SSLs, Georgia Power collected surface water samples in January and August 2022 from three locations in the unnamed creek west of AP-2 (AP2-Up, AP2-Mid, AP2-Down) and four locations in the Coosa River, three of which are pertinent to AP-2, as shown on **Figure 2** (i.e., H+0.25, H+0.35, H+0.75), to horizontally delineate identified SSLs of Appendix IV constituents in groundwater at AP-2. The laboratory reports associated with the sampling events are provided in **Appendix C**. Georgia Power will continue collecting the surface water samples semiannually to support ACM efforts.

Supplemental groundwater samples were collected from the entire AP-2 detection and assessment well networks during the August 2022 monitoring event and were analyzed for major cations (calcium, magnesium, potassium, and sodium) and major anions (chloride, sulfate, and alkalinity (bicarbonate, carbonate, total) as well as iron, manganese, and sulfide. The data were collected in support of evaluating the geochemical composition of the groundwater in conjunction with the ACM activities. The laboratory reports associated with the data are provided in **Appendix C**.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained, in connection with the assessment monitoring program conducted at AP-2 during the 2022 annual reporting period.

3.1 Groundwater and Surface Water Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-2 wells and piezometers during the two 2022 site-wide assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The January/February and August 2022 reported elevations are generally representative of the groundwater elevations reported for prior monitoring events.

Surface water elevations were recorded from a surveyed measuring point located midway across the service bridge, located midway along the unnamed creek west of AP-2 ('Unnamed Creek' location), and at the Coosa River staff gauge located downgradient of AP-1, as shown in **Figure 2**.

The groundwater and surface water elevation data were used to prepare potentiometric surface maps for the January/February and August 2022 events, which are presented on **Figures 3** and **4**, respectively. Groundwater in the AP-2 area flows under the influence of topography from higher elevations on the northern and eastern side of the Site in a westerly direction beneath AP-2 with a southerly flow component.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradient within the uppermost aquifer beneath AP-2 was calculated using the groundwater elevation data from the January/February and August 2022 events. A horizontal hydraulic gradient is commonly calculated between two points along the groundwater flow path perpendicular to groundwater elevation contours. Ideally, this flow path originates and concludes with groundwater elevations reported for two wells, but this may not be feasible and still remain perpendicular to the contours. The horizontal hydraulic gradient in this report was calculated between upgradient and downgradient wells selected to provide the most accurate alignment possible relative to the interpreted groundwater flow path. The horizontal hydraulic gradient was calculated across the central portion of AP-2 between MW-18 and HGWC-17. The supporting calculations are presented in **Table 4**. The

general trajectory of the flow path used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**. The average hydraulic gradient along the westerly flow path lines for the 2022 annual reporting period is 0.010 feet per foot (ft/ft).

The approximate horizontal flow velocity associated with AP-2 was calculated using the following derivative of Darcy's Law. The calculation is presented in **Table 4**.

$$V = \frac{K_h * i}{n_e}$$

where:

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

K_h = Horizontal Hydraulic Conductivity $\left(\frac{\text{feet}}{\text{day}}\right)$

i = Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{foot}}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = distance between location 1 and 2

n_e = Effective porosity

The horizontal hydraulic conductivity (K_h) measurements were calculated from slug test data collected in AP-2 wells and piezometers. As presented in the HAR Rev 01, results were broadly grouped based on the lithology in which the wells or piezometers were screened. The geometric mean of the K_h values of the alluvium, colluvium, residuum, and partially weathered shale bedrock were used to represent the overall hydraulic conductivity at AP-2 of 5.17×10^{-4} centimeters per second (cm/sec) (1.47 feet per day [ft/day]) (Geosyntec, 2019c). An effective porosity value of 0.15 was used to represent average lithologic conditions at AP-2, derived based on review of literature (Kresic, 2007), observed site lithology, and professional judgement. Applying these values and the average hydraulic gradient, the average groundwater flow velocity underneath AP-2 for the 2022 annual reporting period was calculated to be 0.095 ft/day.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps

with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (Aqua TROLL 400) was used to monitor and record field water quality parameters [i.e., 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 portable turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.).
- Conductivity \pm 5%.
- \pm 0.2 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 measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical) in Peachtree Corners, Georgia following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the monitoring events conducted throughout the 2022 annual reporting period are provided in **Appendix C**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Pace Analytical, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Pace Analytical maintains a NELAP certification for the Appendix III and Appendix IV constituents and the geochemical parameters analyzed for this project. Analytical methods used for

groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix C**.

The groundwater results from the 2022 annual reporting period are summarized in **Table 5**. Surface water analytical results from the January and August 2022 monitoring events are summarized in **Table 6**. The Pace Analytical laboratory reports associated with the results presented in **Tables 5** and **6** are provided in **Appendix C**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2021c), and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Pace Analytical.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives and the results are considered valid. The associated data validation reports are provided in **Appendix C**, along with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the 2022 annual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

Groundwater data from the 2022 annual reporting period were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (Environmental Resource Management, 2017 and Geosyntec, 2020). The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess 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. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 7**. On February 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4.10(6) to incorporate updated federal GWPS where a maximum contaminant level (MCL) had not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L) and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Therefore, the statistical reports and **Table 7** do not differentiate between two sets of GWPS as previously required.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2

verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each constituent. The most recent sample from each downgradient well is compared to the background limit to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective prediction limit, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to previous non-routine (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 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 § 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 requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 7**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analyses presented in **Appendix D**, groundwater conditions have not returned to background and assessment monitoring should continue. Based on review of the statistical analyses, select Appendix IV constituents exceeded the GWPS during the 2022 annual reporting period:

4.2.1 January/February 2022 Data

- Cobalt: HGWC-18, MW-33, and MW-35

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). A statistically significant decreasing trend of cobalt was identified during this reporting period in HGWC-18. No statistically significant trends of cobalt were identified for MW-33 and MW-35.

4.2.2 August 2022 Data

- Cobalt: HGWC-18, MW-33, and MW-35

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). A statistically significant decreasing trend of cobalt was identified during this reporting period in HGWC-18. No statistically significant trends of cobalt were identified for MW-33 and MW-35.

4.2.3 Summary of Statistical Analyses

The SSLs identified for the 2022 annual reporting period are generally consistent with the 2021 annual reporting period, with the following exception:

- No SSLs of lead were identified in HGWC-14, HGWC-18, and MW-33. Similarly, no SSL of molybdenum was identified in MW-21D. Previously identified SSLs of lead and molybdenum in these wells have at all times complied with the GWPS, as established by GA EPD on February 22, 2022.

5.0 NATURE AND EXTENT

The cobalt SSLs are horizontally and vertically delineated to below the site specific GWPS (0.038 mg/L) in HGWC-18, MW-33, and MW-35. The groundwater data from the January/February and August 2022 semiannual assessment monitoring events were used to generate the cobalt iso-concentration maps presented on **Figures 5** and **6**.

On the northwest side of AP- 2, HGWC-18 is vertically delineated by MW-21D. The conceptual site model on the south side of the pond consists of southerly groundwater flow through alluvium toward the Coosa River. MW-33 is vertically delineated by MW-34D upgradient of the river. However, as groundwater nears the Coosa River, it begins to flow upward and join the Coosa River. As such, to properly characterize the deeper groundwater south of MW-34D as it migrates downgradient, MW-51 was installed with a shallower screen interval to not only horizontally delineate cobalt at MW-35 but also to account for the upward movement of groundwater adjacent to the river. The cobalt groundwater concentrations reported for MW-51 (0.031 mg/L and 0.027 mg/L) for the January/February and August 2022 events, respectively, delineate the horizontal extent of the SSLs of cobalt in MW-33 and MW-35 and the vertical extent of cobalt in MW-35 to below the GWPS. Assessment wells MW-34D and MW-51 will continue to be sampled to support cobalt assessment, and the data will be statistically evaluated after collecting a minimum of four independent samples (specific to MW-51).

Due to the presence of a surface water feature (unnamed creek) west of AP-2 in the downgradient direction of HGWC-18 (refer to **Figure 2**), installation of additional wells to horizontally characterize this area is infeasible. For this reason, Georgia Power proactively began collecting surface water samples in July 2020. Cobalt was not detected above the laboratory reporting limit (0.0050 mg/L) in surface water samples collected in January and August 2022 from the three locations in the unnamed creek (AP2-Up, AP2-Mid, and AP2-Down) shown on **Figure 2**. No cobalt impacts to surface water have been detected; and therefore, the cobalt SSL observed in HGWC-18 is horizontally delineated.

Surface water samples were also collected from the Coosa River in January and August 2022. Three sampling locations (i.e., H+0.25, H+0.35, H+0.75) are in the vicinity of MW-33 and MW-35 and relevant to conditions at AP-2. These three locations are shown on **Figure 2**. Cobalt was not detected above the laboratory reporting limit (0.0050 mg/L) in any of the Coosa River samples. The Coosa River will continue to be sampled until sufficient data are available to statistically evaluate MW-51. The January and August

2022 data associated with the unnamed creek and the Coosa River surface water sampling events are presented in **Table 6** and the laboratory reports are included in **Appendix C**.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-2 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of cobalt in select AP-2 wells. Pursuant to § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Report* was submitted to GA EPD on August 31, 2022, in lieu of the *Semiannual Remedy Selection and Design Progress Reports* (semiannual progress report) previously included in the appendix of the routine annual groundwater monitoring and corrective action reports. The *Draft Remedy Selection Report* was submitted under separate cover and is currently being reviewed by GA EPD. The report summarizes:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-2.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on September 23, 2022, stating their support for Georgia Power to initiate a pilot study at AP-2 to facilitate further remedy design. Georgia Power will submit a workplan to GA EPD outlining the design and implementation of this pilot study prior to initiating the field work.

6.3 Annual Potable Well Survey

As requested by GA EPD, an updated potable well survey of potential groundwater wells within a two-mile radius of AP-2 was conducted in November and December 2022 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix E**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The Floyd County Health Department does not permit or regulate private wells, and therefore had no update to provide for the survey. The findings from the 2022 well survey are consistent with the 2021 well survey (Geosyntec, 2022a).

7.0 CONCLUSIONS AND FUTURE ACTIONS

This 2022 annual *Groundwater Monitoring and Corrective Action Report* for Plant Hammond AP-2 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-2 for the 2022 annual reporting period identified the continued presence of SSLs of cobalt in HGWC-18, MW-33, and MW-35. Based on the most current groundwater quality, the SSLs are vertically and horizontally delineated to below the site specific GWPS.

Georgia Power will continue to monitor AP-2 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, under separate cover. The next routine semiannual assessment monitoring event for AP- 2 is scheduled for January 2023. Progress made regarding the remedy selection will be documented in the next groundwater monitoring and corrective action report.

8.0 REFERENCES

- Environmental Resource Management, 2017. *Statistical Analysis Method Certification 40 CFR § 257.93 – Plant Hammond Ash Pond 1 (AP-2) – Georgia Power Company*. October 2017.
- Geosyntec, 2019a. *2018 Annual Groundwater Monitoring and Corrective Action Report – Plant Hammond Ash Ponds 1 & 2 (AP-1 and AP-2)*. January 2019.
- Geosyntec, 2019b. *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 2 (AP-2)*. June 2019.
- Geosyntec, 2019c. *Hydrogeologic Assessment Report (Revision 1) – Plant Hammond Ash Pond 2 (AP-2)*. December 2019.
- Geosyntec, 2020. *Statistical Analysis Method Certification (REV 01) – Georgia Rule 391-3-4-.10(6) and 40 CFR § 257.93(f) – Plant Hammond Ash Pond 2 – Georgia Power Company*. January 2020.
- Geosyntec, 2021a. *2020 Annual Groundwater Monitoring and Corrective Action Report – Plant Hammond Ash Pond 2 (AP-2)*. January 2021.
- Geosyntec, 2021b. *2021 Semiannual Groundwater Monitoring and Corrective Action Report – Plant Hammond Ash Pond 2 (AP-2)*. August 2021.
- Geosyntec, 2021c. *Groundwater Monitoring Plan – Plant Hammond Ash Pond 2 (AP-2)*. September 2021 revision.
- Geosyntec, 2022a. *Semiannual Remedy Selection and Design Progress Report – Plant Hammond Ash Pond 2 (AP-2)*. January 2022.
- Geosyntec, 2022b. *Well Design, Installation, and Development Report – Addendum No. 5, Plant Hammond Ash Pond 2 (AP-2)*. June 2022.
- Geosyntec, 2022c. *Draft Remedy Selection Report, Georgia Power Company, Plant Hammond Ash Pond 2*. August 2022.
- Golder Associates, 2018. *Geologic and Hydrogeologic Report – Plant Hammond*. November 2018.

Kresic, Neven, 2007. *Hydrogeology and Groundwater Modeling, Second Edition*. CRC Press.

Sanitas: Groundwater Statistical Software, v. 9.6.05 (2018). Sanitas Technologies[®], Boulder, Colorado.

USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March 2009.

USEPA, 2011. *Region IV Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Region IV. Athens, GA. September 2011.

USEPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January 2017.

TABLES

Table 1
Monitoring Well Network Summary
Plant Hammond AP-2, Floyd County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽²⁾	Screen Interval Length (ft)
Detection Monitoring Well										
HGWA-1	Upgradient	12/3/2014	1550423.32	1940770.00	592.32	595.21	573.12	563.12	32.49	10
HGWA-2	Upgradient	12/2/2015	1549796.87	1939845.15	585.29	587.92	570.29	560.29	27.95	10
HGWA-3	Upgradient	12/2/2015	1549794.41	1939833.39	585.23	587.74	553.23	543.23	44.51	10
HGWA-4	Upgradient	12/3/2014	1549930.45	1939385.45	584.94	587.60	572.24	562.24	25.76	10
HGWA-5	Upgradient	12/10/2015	1548633.33	1937184.17	580.52	583.24	564.92	554.92	28.72	10
HGWA-6	Upgradient	12/11/2015	1548636.35	1937177.73	580.72	583.38	543.72	533.72	49.66	10
HGWA-42D	Upgradient	8/27/2020	1549363.72	1938443.86	583.39	586.17	528.39	518.39	68.03	10
HGWA-43D	Upgradient	8/26/2020	1550422.85	1940753.80	592.08	595.08	544.08	534.08	61.25	10
HGWA-44D	Upgradient	8/25/2020	1550409.13	1940756.18	592.01	594.79	491.76	481.76	113.28	10
HGWC-14	Downgradient	10/16/2014	1547998.96	1938406.27	594.67	597.25	564.67	554.67	42.98	10
HGWC-15	Downgradient	10/20/2014	1547875.33	1937854.92	578.73	581.49	553.93	543.93	37.96	10
HGWC-16	Downgradient	10/21/2014	1548209.83	1937540.33	577.36	580.02	557.36	547.36	33.06	10
HGWC-17	Downgradient	10/22/2014	1548449.71	1937538.98	581.51	584.30	566.91	556.91	27.79	10
HGWC-18	Downgradient	10/22/2014	1548821.27	1937558.32	581.36	584.18	566.86	556.86	27.71	10
Piezometer										
MW-8	Downgradient	10/29/2014	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.72	10
MW-9	Downgradient	10/29/2014	1548131.38	1938922.16	588.42	590.95	569.12	559.12	32.95	10
MW-12	Downgradient	10/21/2014	1547853.78	1937525.46	580.59	583.27	555.79	545.79	38.94	10
MW-16	Downgradient	10/27/2014	1549104.17	1937940.06	571.70	574.22	562.20	552.20	23.42	10
MW-17	Downgradient	10/28/2014	1549163.28	1938345.81	583.68	586.78	568.98	558.98	29.09	10
MW-18	Downgradient	10/29/2014	1548984.15	1938712.73	589.75	592.28	571.05	561.05	32.42	10
MW-36D	Downgradient	5/7/2020	1548435.43	1937538.19	581.44	584.10	534.12	524.12	57.65	10
MW-52	Upgradient	1/25/2022	1549277.59	1938398.82	583.25	586.11	573.29	563.29	20.29	10
Assessment Monitoring Well										
MW-21D	Downgradient	11/19/2018	1548814.86	1937555.78	581.16	583.84	542.36	532.36	51.88	10
MW-22	Downgradient	11/15/2018	1547854.68	1937832.04	576.05	578.51	551.45	541.45	37.47	10
MW-23D	Downgradient	11/15/2018	1547876.55	1937843.89	579.06	581.30	529.46	519.46	62.24	10
MW-33	Downgradient	11/21/2019	1547973.50	1938412.13	591.19	593.92	566.60	556.60	37.72	10
MW-34D	Downgradient	5/6/2020	1547996.82	1938392.20	593.83	596.51	530.48	520.48	73.68	10
MW-35	Downgradient	5/13/2020	1547905.33	1938417.82	571.88	574.40	558.70	548.70	23.52	10
MW-37D	Downgradient	5/8/2020	1548803.01	1937551.05	580.95	583.58	514.65	504.65	76.63	10
MW-51	Downgradient	7/22/2021	1547872.35	1938421.46	571.57	574.54	556.47	546.47	28.90	10

Notes:

ft = feet

BTOC = below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions dated May 19, 2020 and September 10, 2020 (for HGWA-42D, HGWA-43D, and HGWA-44D), September 8, 2021 (for MW-51), and April 11, 2022 (for MW-52).

(2) Total well depth accounts for sump if data provided on well construction logs.

Table 2
Groundwater Sampling Event Summary
Plant Hammond AP-2, Floyd County, Georgia

Well ID	Hydraulic Location	January 31 - February 10, 2022	August 2 - 11, 2022	Status of Monitoring Well
Purpose of Sampling Event:		Assessment	Assessment	
<i>Detection Monitoring Well</i>				
HGWA-1	Upgradient	X	X	Assessment
HGWA-2	Upgradient	X	X	Assessment
HGWA-3	Upgradient	X	X	Assessment
HGWA-4	Upgradient	X	X	Assessment
HGWA-5	Upgradient	X	X	Assessment
HGWA-6	Upgradient	X	X	Assessment
HGWA-42D	Upgradient	X	X	Assessment
HGWA-43D	Upgradient	X	X	Assessment
HGWA-44D	Upgradient	X	X	Assessment
HGWC-14	Downgradient	X	X	Assessment
HGWC-15	Downgradient	X	X	Assessment
HGWC-16	Downgradient	X	X	Assessment
HGWC-17	Downgradient	X	X	Assessment
HGWC-18	Downgradient	X	X	Assessment
<i>Assessment Monitoring Well</i>				
MW-21D	Downgradient	X	X	Assessment
MW-22	Downgradient	X	X	Assessment
MW-23D	Downgradient	X	X	Assessment
MW-33	Downgradient	X	X	Assessment
MW-34D	Downgradient	X	X	Assessment
MW-35	Downgradient	X	X	Assessment
MW-37D	Downgradient	X	X	Assessment
MW-51	Downgradient	X	X	Assessment

Table 3
Summary of Groundwater and Surface Water Elevations
Plant Hammond AP-2, Floyd County, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	January 31, 2022		August 1, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
Detection Monitoring Wells					
HGWA-1	595.21	13.02	582.19	18.59	576.62
HGWA-2	587.92	8.18	579.74	10.71	577.21
HGWA-3	587.74	7.73	580.01	10.45	577.29
HGWA-4	587.60	6.25	581.35	8.76	578.84
HGWA-5	583.24	5.52	577.72	6.78	576.46
HGWA-6	583.38	4.99	578.39	6.55	576.83
HGWA-42D	586.17	11.35	574.82	20.5	565.67
HGWA-43D	595.08	12.97	582.11	18.47	576.61
HGWA-44D	594.79	13.05	581.74	18.01	576.78
HGWC-14	597.25	28.39	568.86	29.68	567.57
HGWC-15	581.49	17.69	563.80	16.45	565.04
HGWC-16	580.02	12.96	567.06	13.15	566.87
HGWC-17	584.30	18.14	566.16	18.97	565.33
HGWC-18	584.18	18.51	565.67	18.97	565.21
Piezometers					
MW-8	586.93	19.65	567.28	20.06	566.87
MW-9	590.95	15.65	575.30	18.02	572.93
MW-12	583.27	20.71	562.56	18.65	564.62
MW-16	574.22	7.12	567.10	6.88	567.34
MW-17	586.78	10.28	576.50	9.81	576.97
MW-18	592.28	13.55	578.73	14.28	578.00
MW-36D	584.10	17.25	566.85	18.05	566.05
MW-52	586.11	10.66	575.45	10.51	575.60
Assessment Monitoring Wells					
MW-21D	583.84	17.50	566.34	18.20	565.64
MW-22	578.51	15.76	562.75	13.89	564.62
MW-23D	581.30	19.16	562.14	16.81	564.49
MW-33	593.92	25.66	568.26	26.73	567.19
MW-34D	596.51	32.01	564.50	31.02	565.49
MW-35	574.40	10.95	563.45	9.55	564.85
MW-37D	583.58	17.20	566.38	17.84	565.74
MW-51	574.54	11.46	563.08	9.85	564.69
Surface Water Level Gauge Point					
Coosa River ⁽²⁾	--	--	560.40	--	564.10
Unnamed Creek	580.14 ⁽³⁾	15.14	565.00	15.75	564.39

Notes:

-- = not measured or not applicable

ft = feet

BTOC = below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data dated May 19, 2020, September 10, 2020 (for HGWA-42D HGWA-43D, and HGWA-44D), September 8, 2021 (for MW-51), and April 11, 2022 (for MW-52).

(2) Coosa River staff gauge located approximately 3,250 feet upstream of the confluence of the Unnamed Creek with the Coosa River.

(3) Surveyed reference point located midway across the service bridge located immediately west of AP-2 (Figure 2). The value presented in the "Depth to Water" column represents the measured distance from the bridge to the top of water, in feet.

Table 4
 Horizontal Groundwater Gradient and Flow Velocity Calculations
 Plant Hammond AP-2, Floyd County, Georgia

Flow Path Direction ⁽¹⁾	January 31, 2022				August 1, 2022				Average i (ft/ft)
	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	
Westerly Flow Path (MW-18 to HGWC-17)	578.73	566.16	1,300	0.010	578.00	565.33	1,300	0.010	0.010

Flow Path Direction ⁽¹⁾	Averaged for 2022			
	K _h (ft/d)	n _e	i (ft/ft)	V (ft/d) ⁽²⁾
Westerly Flow Path (MW-18 to HGWC-17)	1.47	0.15	0.010	0.095

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁ and h₂ = groundwater elevation at location 1 and 2

i = h₁-h₂/L = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

L = distance between location 1 and 2 along the flow path

n_e = effective porosity

V = groundwater flow velocity

(1) Flow path direction relative to the orientation of AP-2 and illustrated on Figures 3 and 4 of associated report.

(2) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

Table 5
Summary of Groundwater Analytical Data
Plant Hammond AP-2, Floyd County, Georgia

Well ID:	HGWA-1	HGWA-1	HGWA-2	HGWA-2	HGWA-3	HGWA-3	HGWA-4	HGWA-4	HGWA-5	HGWA-5	HGWA-6	HGWA-6	HGWA-42D	HGWA-42D	HGWA-43D	HGWA-43D	
Sample Date:	2/1/2022	8/2/2022	2/1/2022	8/2/2022	2/1/2022	8/2/2022	2/7/2022	8/2/2022	2/7/2022	8/10/2022	2/7/2022	8/10/2022	2/7/2022	8/9/2022	2/1/2022	8/2/2022	
Parameter ^(1,2,3)																	
APPENDIX III	Boron	0.016 J	0.012 J	0.056	0.047	0.011 J	<0.0086	0.017 J	0.020 J	<0.0086	0.011 J	0.019 J	0.015 J	0.047	0.055	0.050	0.043
	Calcium	106	117	27.2	31.2	85.1	84.6	5.9	6.0	30.0	27.4	53.4	55.7	48.7	44.1	55.9	54.1
	Chloride	7.5	14.1	7.0	7.8	5.7	5.9	2.4	2.9	1.4	2.1	1.1	1.3	3.1	3.7	4.1	4.3
	Fluoride	0.064 J	0.090 J	<0.050	0.053 J	<0.050	0.067 J	<0.050	0.076 J	<0.050	0.078 J	<0.050	0.067 J	0.085 J	0.12	0.19	0.22
	pH	7.19	7.03	5.24	4.57	7.45	7.02	5.24	4.86	6.51	6.22	7.65	7.53	7.85	7.58	7.52	7.15
	Sulfate	43.7	58.1	67.1	86.9	46.0	43.5	2.9	4.9	20.6	19.7	33.0	34.0	10.4	11.2	37.5	37.0
	TDS	270	400	156	196	350	287	54.0	48.0	135	134	224	217	190	182	156	278
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0014 J	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	
	Arsenic	0.0016 J	<0.0022	0.0023 J	<0.0022	0.0024 J	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	0.0036 J	<0.0022
	Barium	0.031	0.039	0.13	0.11	0.12	0.16	0.028	0.041	0.038	0.053	0.18	0.18	0.18	0.20	0.29	0.35
	Beryllium	<0.000054	<0.000054	0.00020 J	0.00019 J	<0.000054	<0.000054	0.00017 J	0.00019 J	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054
	Cadmium	<0.00011	<0.00011	0.00017 J	0.00023 J	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
	Chromium	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	Cobalt	<0.00039	0.00054 J	0.025	0.024	<0.00039	<0.00039	0.00068 J	0.00066 J	0.00055 J	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039
	Fluoride	0.064 J	0.090 J	<0.050	0.053 J	<0.050	0.067 J	<0.050	0.076 J	<0.050	0.078 J	<0.050	0.067 J	0.085 J	0.12	0.19	0.22
	Lead	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
	Lithium	0.0011 J	<0.00073	0.0017 J	0.0013 J	0.0037 J	0.0030 J	0.0013 J	0.0011 J	0.0029 J	0.0028 J	0.0097 J	0.010 J	0.0097 J	0.011 J	0.0024 J	0.0019 J
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	0.00099 J	<0.00074	0.0036 J	0.0042 J
	Comb. Radium 226/228	0.143 U	0.203 U	0.588 U	0.861 U	0.266 U	0.400 U	0.0978 U	0.963 U	0.106 U	0.568 U	0.346 U	0.648 U	0.0660 U	0.158 U	1.12	0.662 U
Selenium	<0.0014	<0.0014	<0.0014	0.0014 J	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	
Thallium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	
GEOCHEM	Bicarbonate Alkalinity	--	266	--	12.8	--	179	--	13.3	--	84.3	--	163	--	154	--	203
	Iron	--	0.21	--	0.72	--	1.0	--	0.039 J	--	1.5	--	0.33	--	0.40	--	0.31
	Magnesium	--	4.4	--	4.0	--	5.2	--	0.68	--	5.4	--	9.8	--	7.1	--	17.2
	Manganese	--	0.48	--	0.80	--	0.24	--	0.014 J	--	0.061	--	0.083	--	0.025 J	--	0.019 J
	Potassium	--	0.28	--	1.0	--	0.37	--	0.17 J	--	0.70	--	0.57	--	0.45	--	0.80
	Sodium	--	28.5	--	11.2	--	5.7	--	7.9	--	6.1	--	7.7	--	8.3	--	24.8
	Sulfide	--	0.062 J	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050

Notes:

-- = Parameter was not analyzed.

< = Indicates the parameter was not detected above the analytical MDL.

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).

TDS = Total dissolved solids

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228).

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015, alkalinity was analyzed by SM2320B-2011, sulfide was analyzed by SM4500-S2D, and combined radium 226/228 by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
Summary of Groundwater Analytical Data
Plant Hammond AP-2, Floyd County, Georgia

Well ID:	HGWA-44D	HGWA-44D	HGWC-14	HGWC-14	HGWC-15	HGWC-15	HGWC-16	HGWC-16	HGWC-17	HGWC-17	HGWC-18	HGWC-18	MW-21D	MW-21D		
Sample Date:	2/1/2022	8/2/2022	2/9/2022	8/11/2022	2/8/2022	8/11/2022	2/8/2022	8/10/2022	2/8/2022	8/10/2022	2/8/2022	8/10/2022	2/8/2022	8/11/2022		
Parameter ^(1,2,3)																
APPENDIX III	Boron	0.44	0.31	9.9	8.8	1.9	2.1	2.6	2.2	7.8	6.9	8.1	8.4	5.9	5.0	
	Calcium	24.8	20.9	571	519	186	210	218	207	280	316	418	433	366	430	
	Chloride	44.8	19.8	174	147	76.6	89.2	96.4	98.3	117	148	105	95.2	196	216	
	Fluoride	0.96	0.80	0.053 J	0.085 J	<0.050	0.097 J	<0.050	0.054 J	0.055 J	0.086 J	0.19	0.30	<0.050	0.056 J	
	pH	8.25	7.90	4.97	4.93	6.04	6.29	7.18	7.09	6.42	6.29	4.59	4.41	7.09	6.96	
	Sulfate	56.3	13.2	1190	1200	360	365	238	206	364	423	960	946	779	910	
	TDS	444	311	2310	1060	866	940	852	894	1160	1390	1770	1890	1810	356	
APPENDIX IV	Antimony	0.0013 J	<0.00078	<0.00078	0.0010 J	0.0020 J	0.0016 J	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	
	Arsenic	0.0025 J	<0.0022	0.0077	0.0060	<0.0011	<0.0022	<0.0011	<0.0022	0.0017 J	<0.0022	0.0050 J	0.0058	<0.0011	0.0030 J	
	Barium	0.23	0.37	0.017	0.017	0.0098	0.015	0.10	0.10	0.021	0.027	0.020	0.026	0.033	0.037	
	Beryllium	<0.000054	<0.000054	0.00056	0.00039 J	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	0.000060 J	0.0026	0.0032	<0.000054	<0.000054	
	Cadmium	<0.00011	<0.00011	<0.00011	<0.00011	0.0011	0.00095	<0.00011	<0.00011	<0.00011	<0.00011	0.00076	0.0017	<0.00011	<0.00011	
	Chromium	0.0013 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	
	Cobalt	<0.00039	<0.00039	0.038	0.037	0.0081	0.0088	<0.00039	<0.00039	0.0066	0.012	0.16	0.16	<0.00039	<0.00039	
	Fluoride	0.96	0.80	0.053 J	0.085 J	<0.050	0.097 J	<0.050	0.054 J	0.055 J	0.086 J	0.19	0.30	<0.050	0.056 J	
	Lead	<0.00089	<0.00089	0.0014	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	0.00090 J	0.0011	<0.00089	<0.00089	
	Lithium	0.048	0.041	<0.00073	<0.00073	0.014 J	0.0025 J	0.0034 J	0.0032 J	0.0014 J	0.0014 J	0.010 J	0.012 J	0.022 J	0.022 J	
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	
	Molybdenum	0.0055 J	0.0020 J	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	0.016	0.023
	Comb. Radium 226/228	0.665 U	0.952 U	0.346 U	1.31	0.0242 U	0.656 U	0.168 U	0.249 U	1.00 U	0.361 U	0.930 U	1.46	0.463 U	0.691 U	
Selenium	<0.0014	<0.0014	0.0047 J	0.0037 J	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.0082	0.0096	<0.0014	<0.0014		
Thallium	<0.00018	<0.00018	0.00025 J	0.00024 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018		
GEOCHEM	Bicarbonate Alkalinity	--	263	--	<5.0	--	152	--	208	--	213	--	<5.0	--	51.5	
	Iron	--	0.24	--	1.0	--	<0.025	--	1.4	--	0.11	--	0.085	--	21.4	
	Magnesium	--	12.2	--	49.8	--	35.8	--	16.6	--	33.7	--	42.8	--	71.6	
	Manganese	--	0.013 J	--	4.2	--	10.7	--	0.045	--	3.4	--	3.5	--	1.2	
	Potassium	--	3.9	--	12.1	--	0.91	--	0.82	--	2.8	--	11.1	--	1.4	
	Sodium	--	94.6	--	9.9	--	12.4	--	10.4	--	15.1	--	11.8	--	16.1	
Sulfide	--	0.058 J	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050		

Table 5
Summary of Groundwater Analytical Data
Plant Hammond AP-2, Floyd County, Georgia

Well ID:		MW-22	MW-22	MW-23D	MW-23D	MW-33	MW-33	MW-34D	MW-34D	MW-35	MW-35	MW-37D	MW-37D	MW-51	MW-51	
Sample Date:		2/8/2022	8/11/2022	2/10/2022	8/11/2022	2/8/2022	8/10/2022	2/9/2022	8/10/2022	2/8/2022	8/11/2022	2/8/2022	8/10/2022	2/8/2022	8/11/2022	
Parameter ^(1,2,3)																
APPENDIX III	Boron	3.2	2.5	3.2	3.3	8.4	8.0	9.6	10.2	10.8	9.6	0.14	0.11	10.5	8.2	
	Calcium	221	198	288	315	548	498	557	585	519	499	167	113	537	521	
	Chloride	110	125	138	124	166	120	251	185	202	172	151	84.8	194	144	
	Fluoride	<0.050	0.063 J	<0.050	0.060 J	0.14	0.21	0.051 J	0.081 J	0.065 J	0.088 J	0.055 J	0.084 J	0.078 J	0.11	
	pH	5.37	5.30	6.87	6.57	4.42	4.36	7.21	7.00	4.86	4.86	7.63	7.47	6.57	6.37	
	Sulfate	449	472	430	389	1220	1010	1050	1040	1190	1020	248	122	1150	979	
	TDS	1070	960	1260	2700	2480	2050	2260	2310	2410	1070	882	2770	2430	2080	
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.0039	<0.00078	<0.00078	0.0029 J	<0.0039	<0.00078	<0.00078	<0.00078	<0.00078	
	Arsenic	<0.0011	<0.0022	<0.0011	<0.0022	0.0069	<0.011	0.0054	0.0045 J	0.0072	<0.011	<0.0011	<0.0022	0.0046 J	0.0043 J	
	Barium	0.014	0.014	0.050	0.050	0.020	0.020 J	0.040	0.046	0.023	0.022 J	0.11	0.11	0.046	0.028	
	Beryllium	0.000079 J	<0.000054	<0.000054	<0.000054	0.00087 J	0.00080	0.000065 J	<0.000054	0.00070 J	0.00066 J	<0.000054	<0.000054	0.00011 J	0.00028 J	
	Cadmium	0.0020	0.0020	0.00024 J	0.00021 J	0.00013 J	<0.00057	0.00072	0.00041 J	0.0015	0.0013 J	<0.00011	<0.00011	0.00024 J	0.00045 J	
	Chromium	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011
	Cobalt	0.034	0.015	0.0010 J	0.00088 J	0.048	0.046	0.0065	0.0066	0.090	0.082	<0.00039	<0.00039	0.031	0.027	
	Fluoride	<0.050	0.063 J	<0.050	0.060 J	0.14	0.21	0.051 J	0.081 J	0.065 J	0.088 J	0.055 J	0.084 J	0.078 J	0.11	
	Lead	<0.00089	<0.00089	<0.00089	<0.00089	0.0014	<0.0044	<0.00089	<0.00089	<0.00089	<0.0044	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
	Lithium	0.0011 J	0.0011 J	0.0029 J	0.0020 J	0.0010 J	0.00090 J	0.0022 J	0.0015J	0.0039 J	<0.0036	0.029 J	0.025 J	0.0010 J	0.0014 J	
	Mercury	<0.00013	0.00016 J	<0.00013	0.00017 J	<0.00013	<0.00013	<0.00013	<0.00013	0.00014 J	0.00014 J	<0.00013	<0.00013	<0.00013	0.00013 J	
	Molybdenum	<0.00074	<0.00074	0.0034 J	0.0039 J	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.0037	0.0070 J	0.0076 J	<0.00074	<0.00074	
	Comb. Radium 226/228	0.0657 U	0.789 U	0.919 U	0.390 U	0.967 U	1.52	0.297 U	1.05	1.38	1.71	0.345 U	0.505 U	0.431 U	1.02	
Selenium	<0.0014	<0.0014	<0.0014	<0.0014	0.0078	0.0070 J	<0.0014	<0.0014	0.0083	0.0089 J	<0.0014	<0.0014	<0.0014	0.0023 J		
Thallium	<0.00018	<0.00018	<0.00018	<0.00018	0.00025 J	<0.0009	<0.00018	<0.00018	<0.00018	<0.0009	<0.00018	<0.00018	<0.00018	<0.00018		
GEOCHEM	Bicarbonate Alkalinity	--	43.7	--	260	--	<5.0	--	89.0	--	<5.0	--	147	--	89.8	
	Iron	--	0.026 J	--	0.12	--	1.1	--	0.081	--	0.062	--	0.77	--	1.1	
	Magnesium	--	42.4	--	33.8	--	44.0	--	54.4	--	66.3	--	21.9	--	54.7	
	Manganese	--	11.6	--	6.6	--	3.7	--	5.1	--	9.5	--	0.066	--	7.6	
	Potassium	--	0.74	--	2.0	--	11.6	--	11.9	--	8.4	--	0.92	--	8.2	
	Sodium	--	13.2	--	13.2	--	9.9	--	11.7	--	11.8	--	28.8	--	20.8	
	Sulfide	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	

Table 6
Summary of Surface Water Sampling Analytical Data
Plant Hammond AP-2, Floyd County, Georgia

		Unnamed Creek Sample Locations ⁽³⁾						Coosa River Sample Locations ⁽³⁾					
Sample ID:		AP2-Up	AP2-Up	AP2-Mid	AP2-Mid	AP2-Down	AP2-Down	H+0.25	H+0.25	H+0.35	H+0.35	H+0.75	H+0.75
Sample Date:		1/24/2022	8/5/2022	1/24/2022	8/5/2022	1/24/2022	8/5/2022	1/24/2022	8/5/2022	1/24/2022	8/5/2022	1/24/2022	8/5/2022
Parameter ^(1,2)													
APP. III	Boron	<0.040	<0.040	0.043	0.045	0.041	0.092	<0.040	0.12	<0.040	0.11	<0.040	0.10
	Calcium	28.8	46.2	31.9	47.1	31.9	15.9	18.4	16.7	17.7	16.4	18.0	16.5
	Chloride	1.2	1.6	1.9	2.3	2.1	7.5	5.0	8.0	5.0	8.0	4.9	7.9
	Fluoride	<0.10	0.11	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	pH	8.35	7.53	7.47	7.59	7.20	7.52	7.43	7.42	7.14	7.43	7.22	7.46
	Sulfate	6.0	8.1	11.4	13.0	11.6	11.5	7.8	9.1	8.3	9.8	9.1	11.1
	TDS	102	151	95.0	154	117	90.0	93.0	93.0	108	87.0	98.0	98.0
APP. IV	Cobalt	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Fluoride	<0.10	0.11	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Lithium	<0.030	--	<0.030	--	<0.030	--	<0.030	--	<0.030	--	<0.030	--
	Molybdenum	<0.010	--	<0.010	--	<0.010	--	<0.010	--	<0.010	--	<0.010	--
GEOCHEM	Bicarbonate Alkalinity	75.8	123	75.5	125	76.4	51.3	56.4	54.8	55.4	53.1	54.1	52.4
	Total Alkalinity	75.8	123	75.5	125	76.4	51.3	56.4	54.8	55.4	53.1	54.1	52.4
	Magnesium	2.7	5.0	3.0	5.2	3.1	4.4	5.1	4.6	4.8	4.6	4.9	4.6
	Potassium	0.56	0.50	0.60	0.58	0.62	1.8	1.9	1.8	1.7	1.9	1.9	1.9
	Sodium	1.9	1.9	1.9	2.0	1.9	7.6	5.6	5.9	5.5	6.6	5.9	7.4

Notes:

-- = Parameter was not analyzed.

< = Indicates the parameter was not detected above the analytical reporting limit (RL).

TDS = Total dissolved solids

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L).

(2) Metals were analyzed by EPA Method 6010D/6020B, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C, pH was analyzed by EPA 9040C, and alkalinity by SM2320B.

(3) Refer to included Figure 2 for locations. Sample locations are presented as positioned relative to the plant, beginning with upstream locations.

Table 7
Summary of Background Concentrations and Groundwater Protection Standards
Plant Hammond AP-2, Floyd County, Georgia

Analyte	Units	MCL	CCR-Rule Specified ⁽¹⁾	Background Limit ⁽²⁾	GWPS ^(3,4)
Antimony	mg/L	0.006	N/A	0.003	0.006
Arsenic	mg/L	0.01	N/A	0.005	0.01
Barium	mg/L	2	N/A	0.46	2
Beryllium	mg/L	0.004	N/A	0.0005	0.004
Cadmium	mg/L	0.005	N/A	0.0005	0.005
Chromium	mg/L	0.1	N/A	0.0019	0.1
Cobalt	mg/L	N/A	0.006	0.038	0.038
Fluoride	mg/L	4	N/A	0.96	4
Lead	mg/L	N/A	0.015	0.001	0.015
Lithium	mg/L	N/A	0.040	0.048	0.048
Mercury	mg/L	0.002	N/A	0.0002	0.002
Molybdenum	mg/L	N/A	0.100	0.01	0.1
Selenium	mg/L	0.05	N/A	0.005	0.05
Thallium	mg/L	0.002	N/A	0.001	0.002
Combined Radium-226/228	pCi/L	5	N/A	1.65, 1.62	5

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

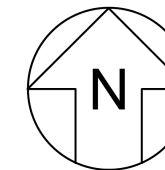
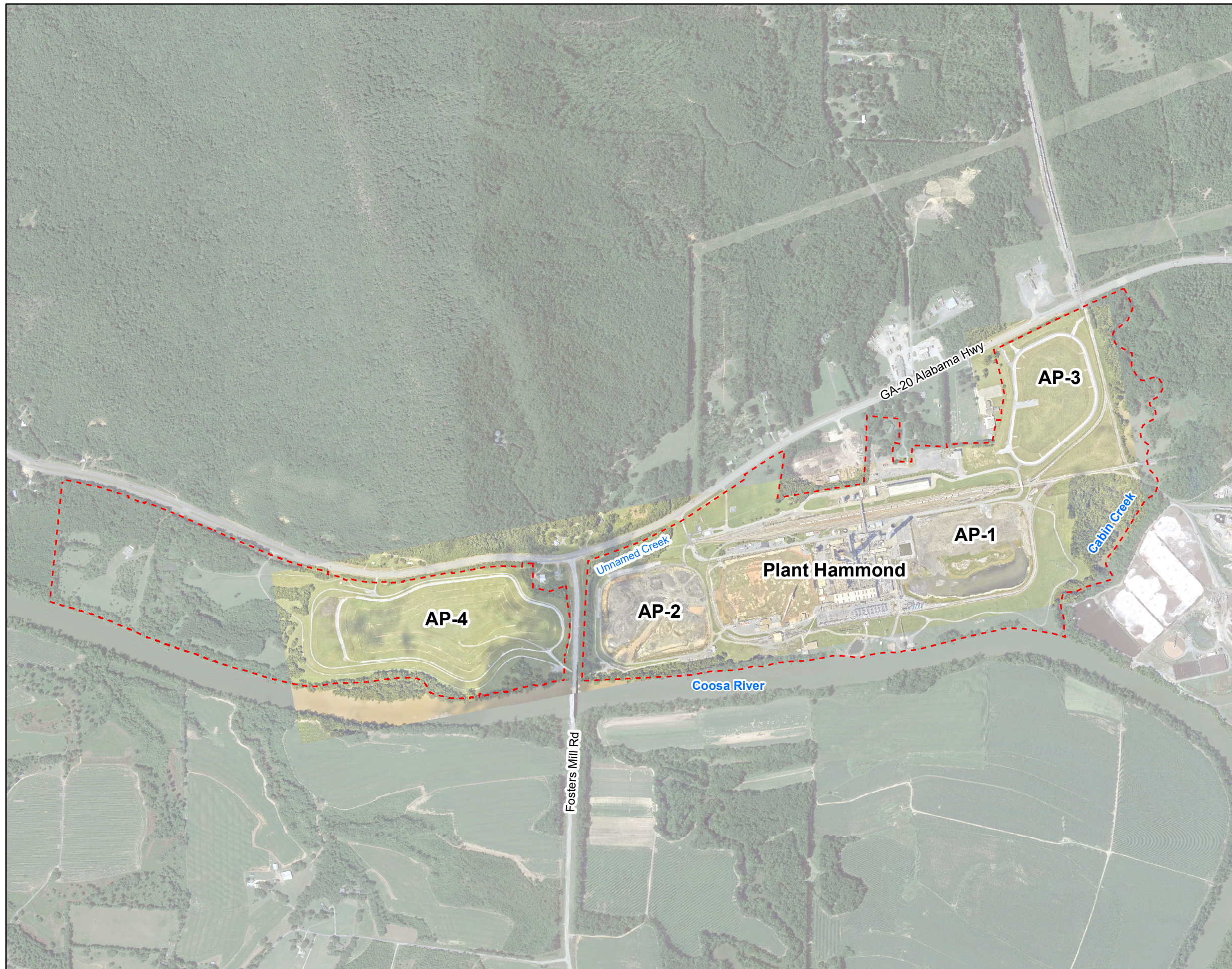
mg/L = milligrams per liter

N/A = Not Applicable

pCi/L = picocuries per liter

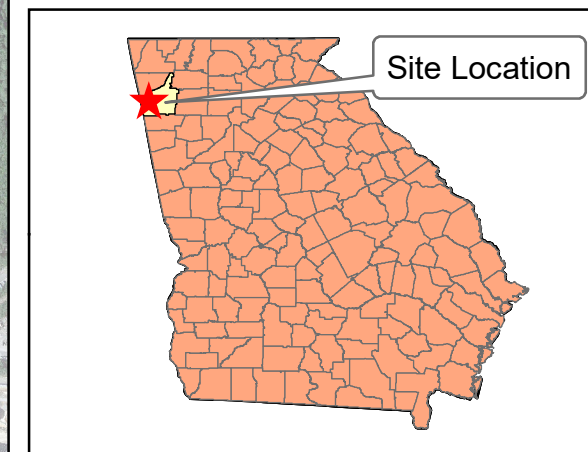
- (1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.
- (2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).
 A cell with two values denotes that different background concentrations were calculated per semiannual event, presented in the order of the events.
- (3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.
- (4) The GWPS apply to the January/February, and August 2022 sampling events.

FIGURES



LEGEND

Plant Hammond Property Boundary



Note:
 1. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, August 2022.



SCALE IN FEET

SITE LOCATION MAP

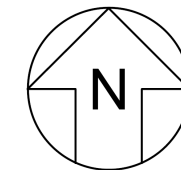
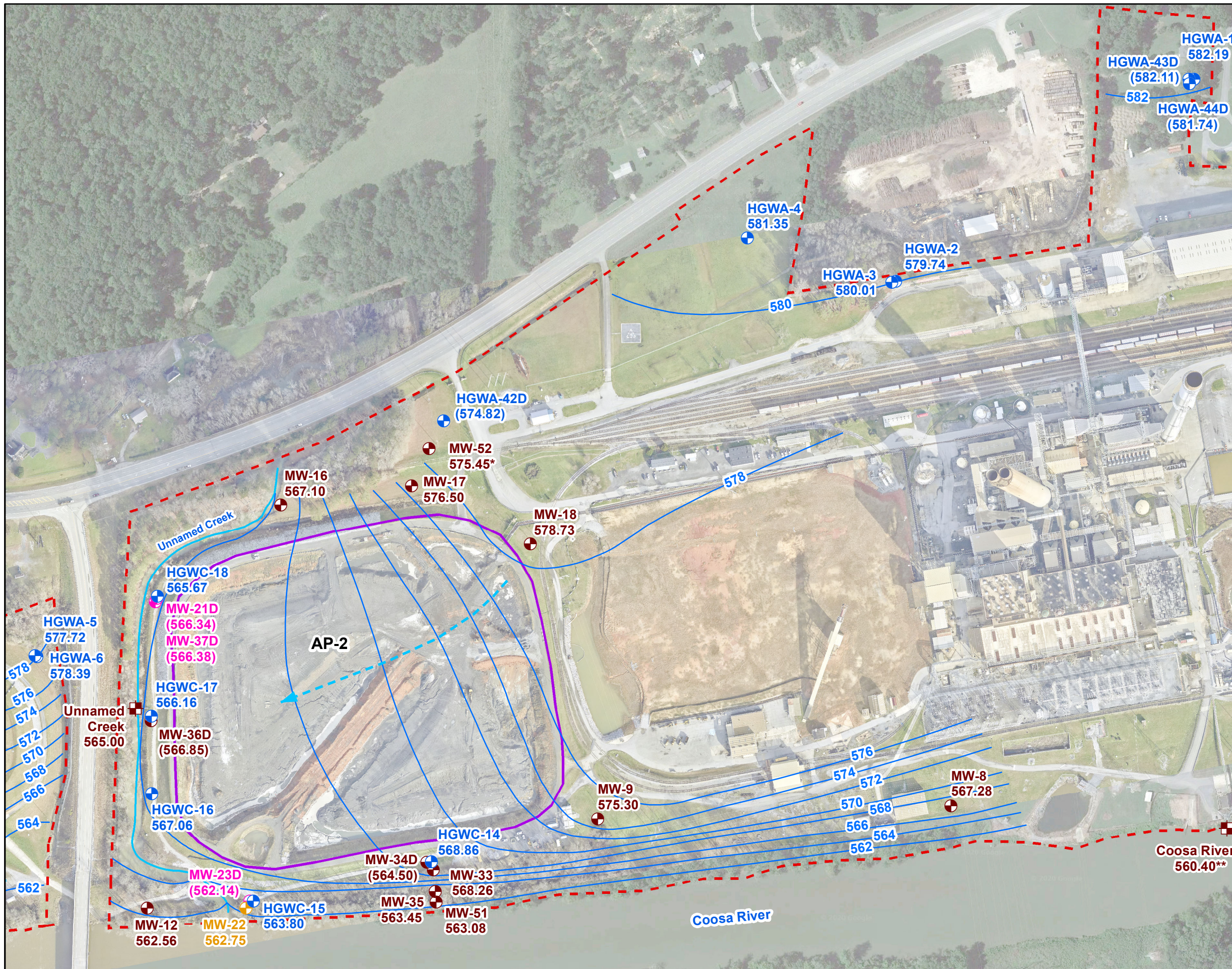
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-2
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA JANUARY 2023

FIGURE
1



LEGEND

- Compliance Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Surface Water Level Gauge Point
- Groundwater Elevation Iso-Contour
- Unnamed Creek
- Approximate Groundwater Flow Direction
- Approximate AP-2 Boundary
- Plant Hammond Property Boundary

Notes:

1. Water level elevation recorded on January 31, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
3. An asterisk (*) denotes that the groundwater elevation at MW-52 was not used to develop groundwater contours because the water elevation is likely not presenting accurate static level at the time due to very recent well development and potential slow recharge of the well.
4. A double asterisk (**) denotes the water level for the Coosa River was gauged approximately 950 feet upstream of MW-8 at the staff gauge near AP-1.
5. Aerial photograph source: Google Earth Pro, August 2019, And Georgia Power Company, January 2022.



SCALE IN FEET



POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2022

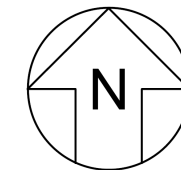
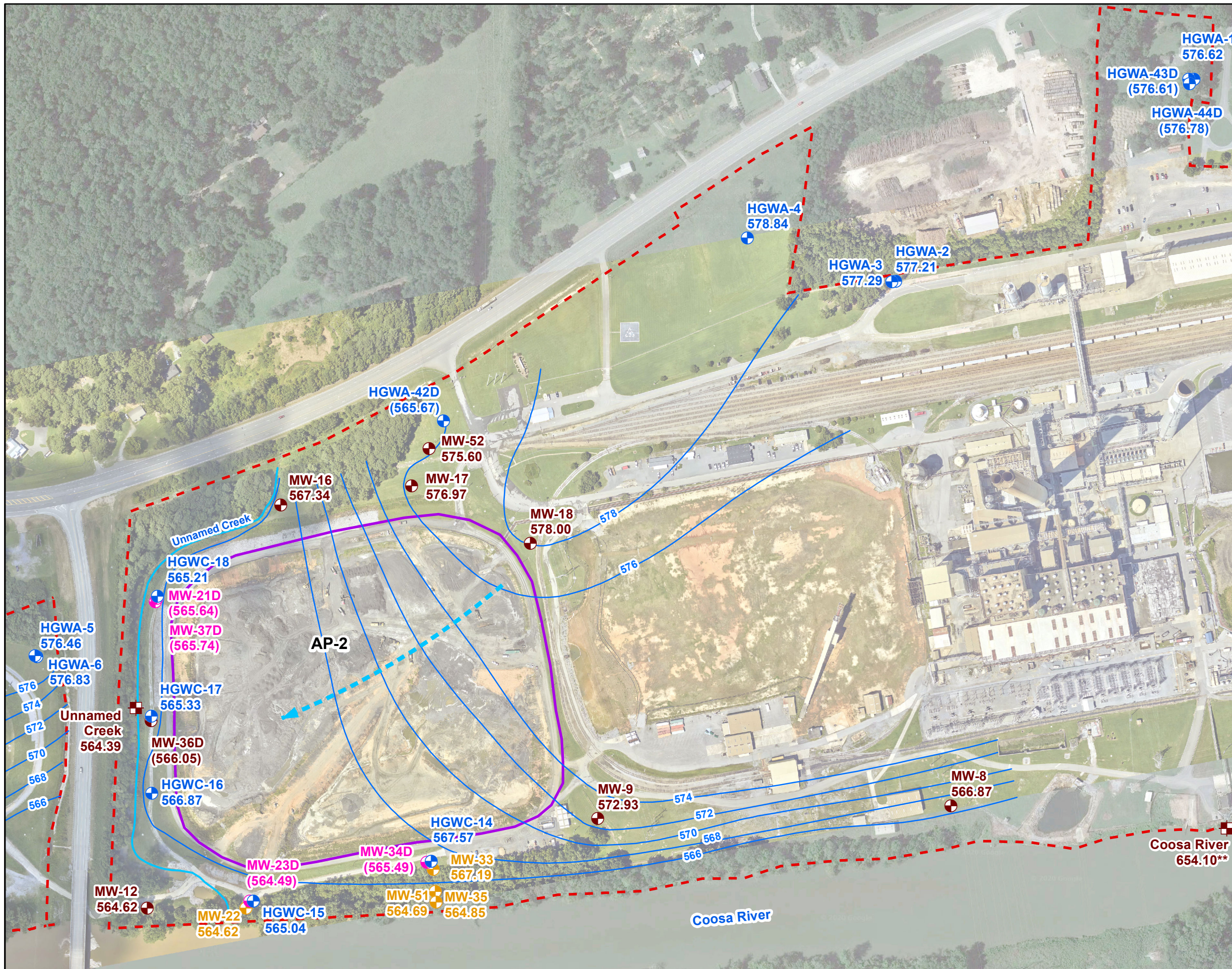
GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

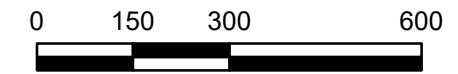
FIGURE
3

KENNESAW, GA JANUARY 2023



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring Well
 - Vertical Assessment Monitoring Well
 - Piezometer
 - Surface Water Level Gauge Point
 - Groundwater Elevation Iso-Contour
 - Unnamed Creek
 - Approximate Groundwater Flow Direction
 - Approximate AP-2 Boundary
 - Plant Hammond Property Boundary

- Notes:**
1. Water level elevation recorded on August 1, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
 2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
 3. A double asterisk (**) denotes the water level for the Coosa River was gauged approximately 950 feet upstream of MW-8 at the staff gauge near AP-1.
 4. Aerial photograph source: Google Earth Pro, August 2019, And Georgia Power Company, August 2022.



SCALE IN FEET



**POTENTIOMETRIC SURFACE CONTOUR
MAP - AUGUST 2022**

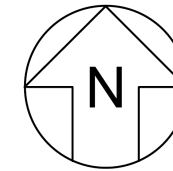
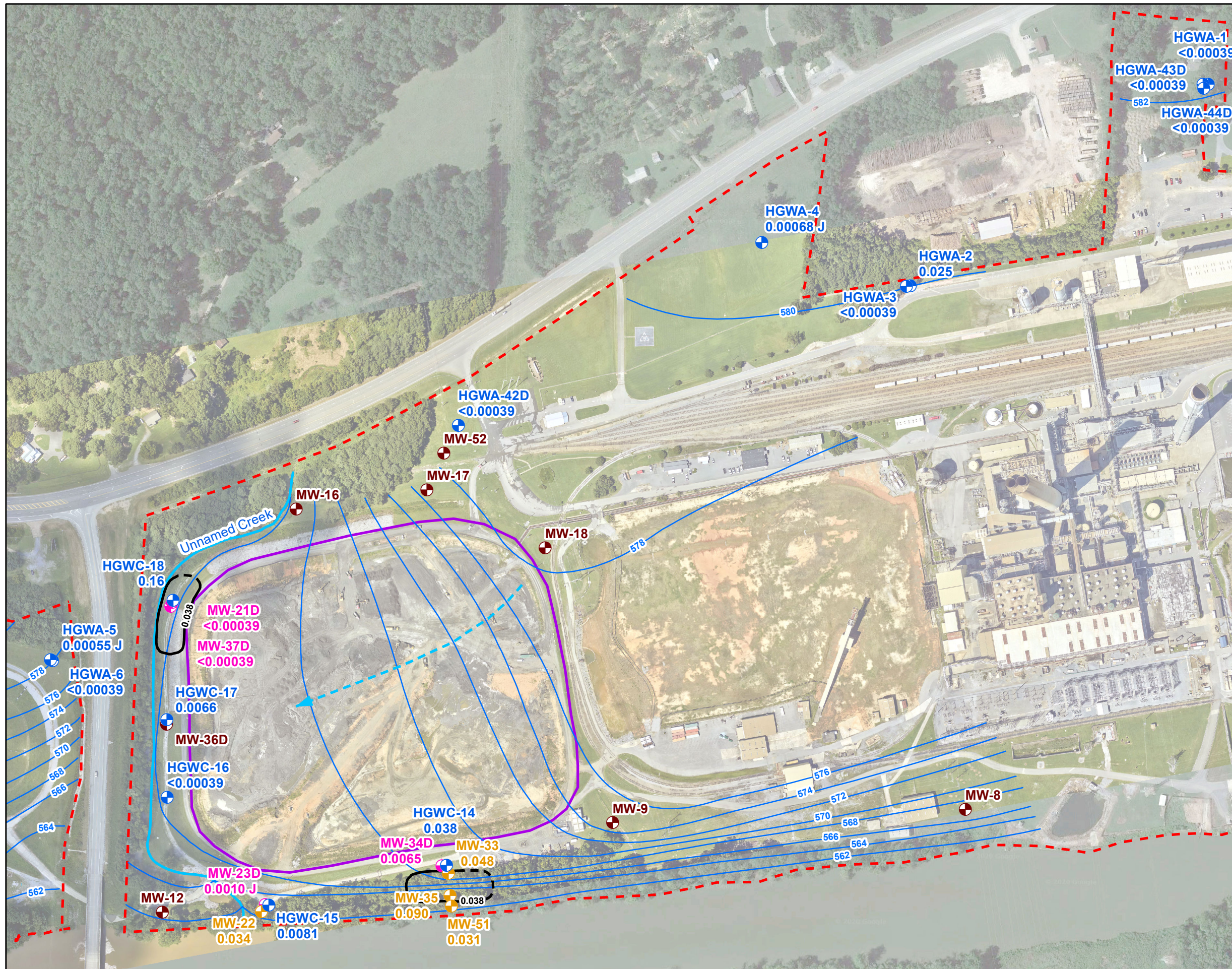
GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

**FIGURE
4**

KENNESAW, GA JANUARY 2023

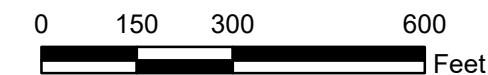


LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer
- GWPS Cobalt Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow
- Approximate AP-2
- Plant Hammond Property Boundary

Notes:

1. Concentration data from groundwater samples collected during the February 2022 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-42D, HGWA-43D, HGWA-44D, MW-21D, MW-23D, MW-34D, MW-37D). Concentrations are reported in mg/L.
2. Water level elevation recorded on January 31, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for cobalt is 0.038 mg/L.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, August 2022.



SCALE IN FEET

**ISO-CONCENTRATION MAP
COBALT - FEBRUARY 2022**

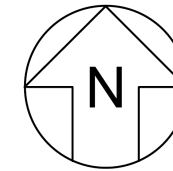
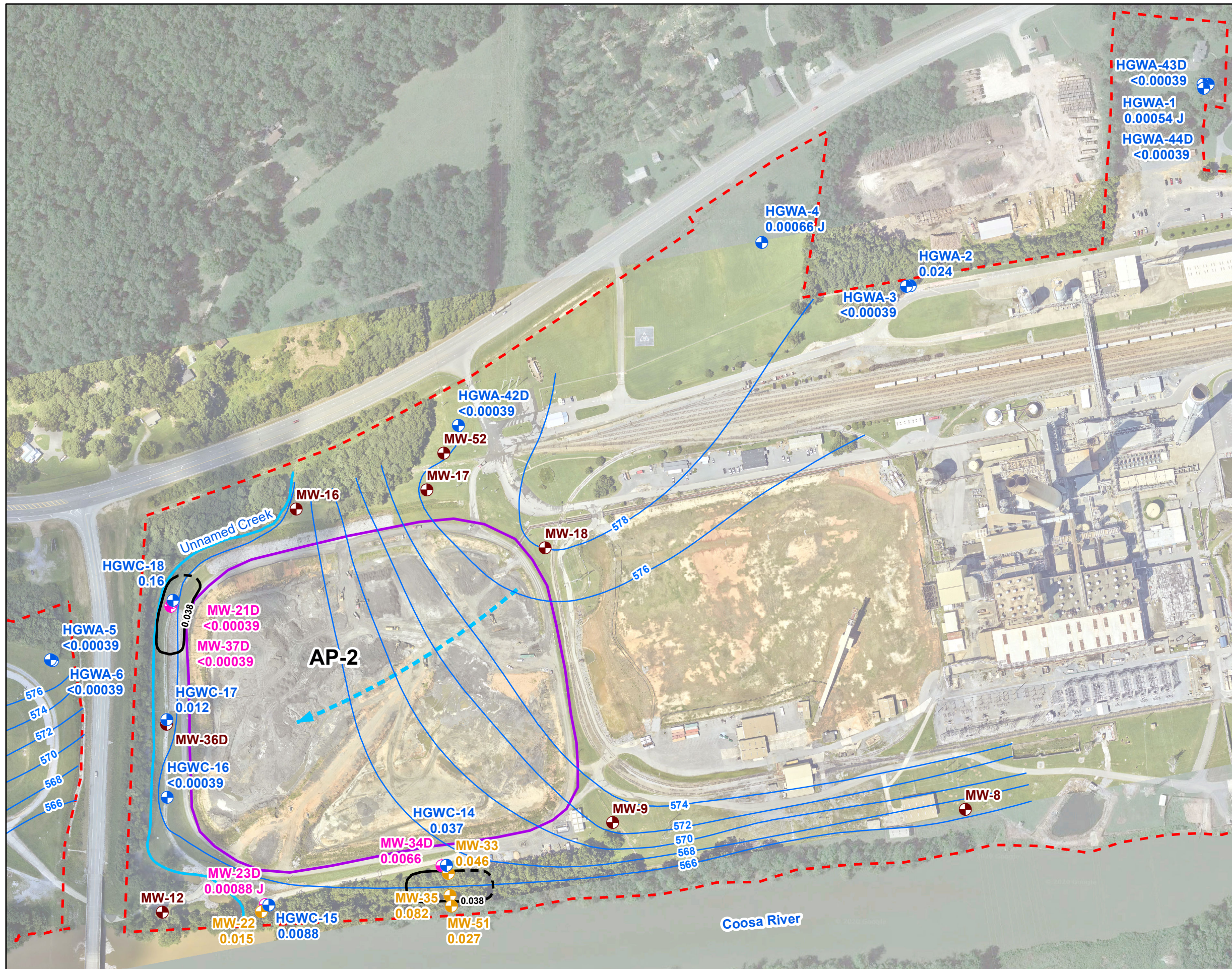
GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

**FIGURE
5**

KENNESAW, GA JANUARY 2023

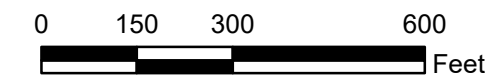


LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- GWPS Cobalt Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow
- Approximate AP-2
- Plant Hammond Property Boundary

Notes:

1. Concentration data from groundwater samples collected during the August 2022 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-42D, HGWA-43D, HGWA-44D, MW-21D, MW-34D, MW-37D). Concentrations are reported in mg/L.
2. Water level elevation recorded on August 1, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for cobalt is 0.038 mg/L.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, August 2022.



SCALE IN FEET

**ISO-CONCENTRATION MAP
COBALT - AUGUST 2022**

GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

**FIGURE
6**

KENNESAW, GA JANUARY 2023

APPENDIX A

Well Design, Installation, and Development Report – Addendum No. 5, Plant Hammond Ash Pond 2 (AP-2), June 2022



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, AND DEVELOPMENT REPORT - ADDENDUM

No. 5

**PLANT HAMMOND ASH POND 2
(AP-2)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581B

June 2022



**WELL DESIGN, INSTALLATION, AND DEVELOPMENT
REPORT – ADDENDUM No. 5**

Plant Hammond

Ash Pond 2

June 3, 2022



Whitney Law, P.E.

Georgia Professional Engineer No. 36641

Project Manager

Geosyntec Consultants

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Appendix B	Boring and Well Construction Log
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Appendix D	Certified Well Survey Data

LIST OF ACRONYMS

AP	Ash Pond
ASTM	American Society for Testing and Materials
CCR	coal combustion residual
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of one piezometer, MW-52, to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 2 (AP-2). MW-52 will be used to gauge water levels to define groundwater flow direction and gradients upgradient of AP-2. The report was prepared as an addendum to previously submitted well design, installation, development and decommissioning reports issued for the Site (ERM, 2017, Geosyntec, 2019b, 2020a, 2020b, and 2021), and meets the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Hammond is located in Floyd County, approximately 10 miles west of Rome, Georgia. The current groundwater monitoring system at AP-2 includes a network of compliance monitoring wells, delineation wells, and piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Midland, North Carolina under contact with, and the supervision of, Southern Company Services (SCS) Civil Field Services (CFS) personnel. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. CFS personnel oversaw the drilling and installation efforts. A professional geologist (PG) employed with Geosyntec Consultants (Geosyntec) and registered to practice in the State of Georgia documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities. Geosyntec was also responsible for the developing the newly installed well.

MW-52 was installed and completed in January 2022. The location of this well is shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The borehole was advanced using rotosonic drilling techniques with continuous core collection. A Terra Sonic Compact Crawler size drill rig with a 6-inch sonic drill rod was used to install the well. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities.

2.2 Screened Interval

Details regarding the well screened interval are provided in **Table 1**. The well is screened in the uppermost water bearing unit of the Site. MW-52 is screened from approximately 573.29 to 563.29 feet [referenced to the North American Vertical Datum of 1988 (NAVD 88)]. MW-52 is constructed with a 10 foot well screen segment.

2.3 Well Casings and Screens

The well was constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The well was installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots. The casing and pre-packed

screen arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screen was constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the well. A threaded bottom cap was attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

The well was designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in the well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite of Consolidated Aggregates Co. silica sand filter pack was used as the appropriate gradation for the well. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screen and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Filter pack material placed in the annular space outside of the well screen extended approximately 2 feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, the well was pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screen. The depth of top of filter pack was measured and recorded on the well construction log provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (PelPlug time-release-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. The bentonite was hydrated with potable water for a duration meeting the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AQUAGUARD bentonite grout placed via tremie pipe and direct pour methods from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around the well. The pad was mounded slightly outward to direct surface drainage away from the well.

2.7 Cap and Protective Casing

The well riser was fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The well was clearly marked with the proper well identification number on the stand-up casing.

3. WELL DEVELOPMENT

The monitoring well was developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The well was alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed, and field parameters were stabilized following low-flow sampling procedures in accordance with the approved Groundwater Monitoring Plan for AP-2 (Geosyntec, 2020). The well development field forms are included in **Appendix C**.

4. SURVEY

Upon completion of the well installation, select horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor on April 6, 2022. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at the well pad were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the new well is provided in **Appendix D**.

5. REFERENCES

- Environmental Resources Management (ERM), 2017. *Well Design, Installation, Development, and Decommissioning Report – Plant Hammond Ash Ponds 1 and 2*. October 2017.
- Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.
- Geosyntec Consultants, 2019b. Well Design, Installation and Development Report – Addendum, Plant Hammond Ash Ponds 1 and 2 (AP-1 and AP-2). June 2019.
- Geosyntec Consultants, 2020. Groundwater Monitoring Plan, Plant Hammond – Ash Pond 2 (AP-2), Floyd County, Georgia, for Georgia Power, Submitted November 2018, Revised January 2020. January 2020.
- Geosyntec Consultants, 2020a. Well Design, Installation and Development Report – Addendum No 2, Plant Hammond Ash Pond 2. July 2020.
- Geosyntec Consultants, 2020b. Well Design, Installation and Development Report – Addendum No 3, Plant Hammond Ash Pond 2. November 2020.
- Geosyntec Consultants, 2021. Well Design, Installation and Development Report – Addendum No 4, Plant Hammond Ash Pond 2. September 2021.
- United States Environmental Protection Agency. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81, April 2015

TABLE

Table 1
 Summary of Well Construction Details
 Plant Hammond AP-2, Floyd County, Georgia

Well ID	Purpose	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation ⁽²⁾ (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Elevation (ft NAVD88)	Well Depth (ft bgs) ⁽³⁾
MW-52	Piezometer	1/25/2022	1549277.59	1938398.82	583.25	586.11	573.29	563.29	20.29

Notes:

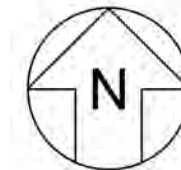
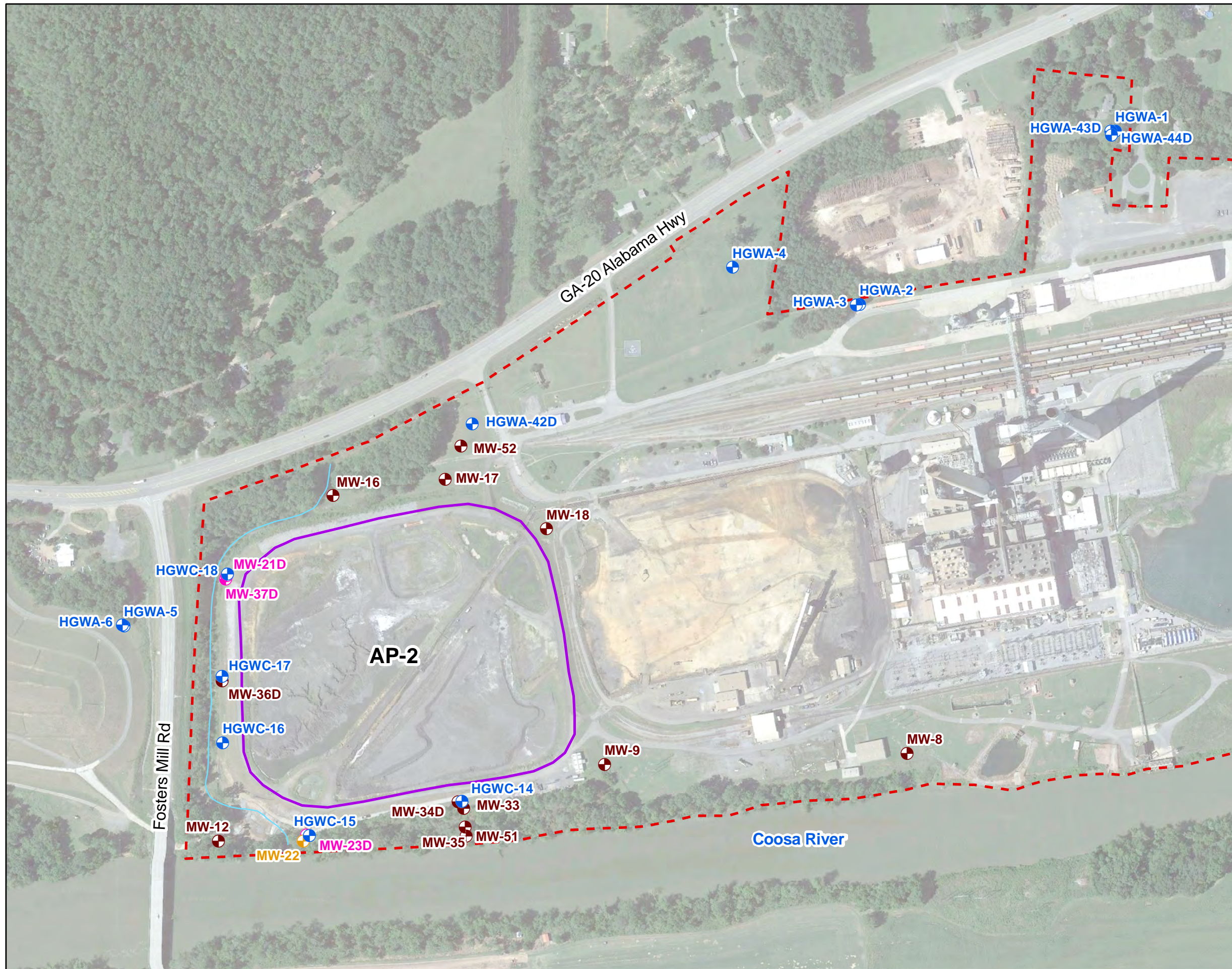
ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified April 11, 2022.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad. Survey was completed by GEL Solutions and certified April 11, 2022.

(3) Total well depth accounts for 4-inch sump.

FIGURE



- LEGEND**
- Compliance Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Unnamed Creek
 - Approximate AP-2 Boundary
 - - - Plant Hammond Property Boundary



Note:
1. Aerial photograph source: Google Earth Pro, August 2019.



GROUNDWATER MONITORING NETWORK MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA JUNE 2022

FIGURE
1

APPENDIX A

Well Driller Performance Bonds



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

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

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

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

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

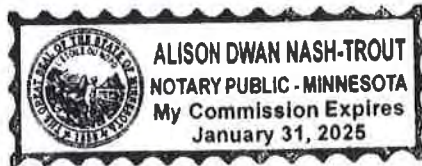
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.



By 
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.





Notary Public

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

Signed and sealed. Dated 12 day of April, 2021.

This Power of Attorney expires
January 31, 2025




Kara Barrow, Secretary

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

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

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

does hereby continue said bond in force for the further period

beginning on 06/30/2021
(MONTH-DAY-YEAR)

and ending on 06/30/2023
(MONTH-DAY-YEAR)

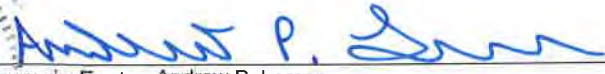
Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

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

Signed and dated on April 12th, 2021
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent
2233 112th Ave NE Bellevue, WA 98004

Address of Agent

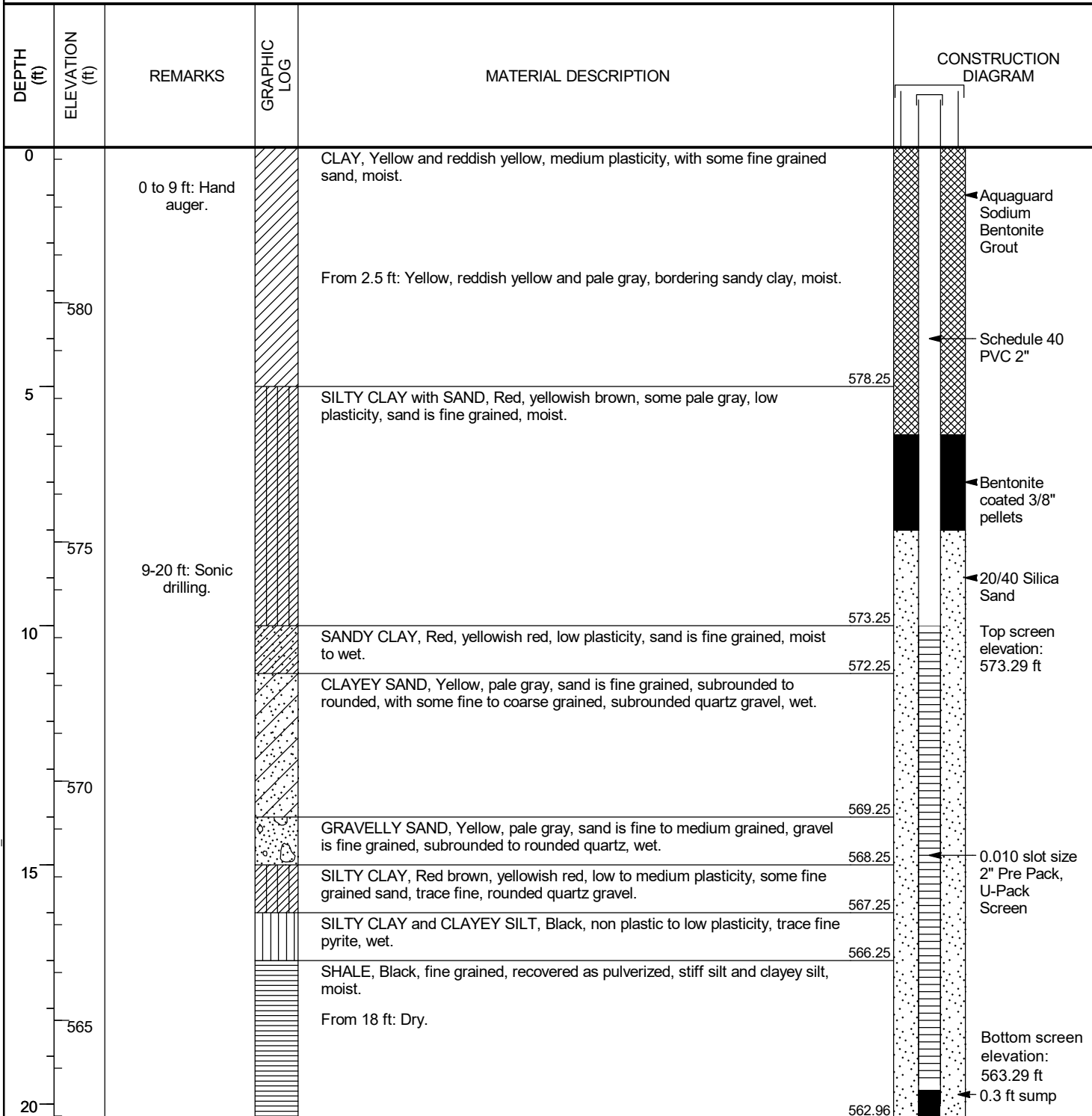
425-709-3600

Telephone Number of Agent

APPENDIX B

Boring and Well Construction Log

CLIENT Southern Company Services	PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581B	PROJECT LOCATION Plant Hammond
DATE STARTED 1/25/2022	COMPLETED 1/25/2022
DRILLER Cascade Drilling	NORTHING 1549277.59 ft
DRILLING METHOD Sonic 4x6	EASTING 1938398.82 ft
SAMPLING METHOD 4" core 6" override	GROUND ELEVATION 583.25 ft
RIG TYPE Terra Sonic Compact Crawler	BORING DIAMETER 6 in
	TOP OF CASING ELEVATION 586.11 ft
	GEOPHYSICAL CONTRACTOR ---
	LOGGED BY C. Hug
	CHECKED BY J. Ivanowski



Bottom of borehole at 20.3 feet.

SCS MONITORING WELLS PLANT HAMMOND MW-52 JANUARY 2022.GPJ ACP GINT LIBRARY CH.GLB 4/15/22

APPENDIX C

Well Development Forms

WELL DEVELOPMENT LOG SHEET

deu

pg 1 of 2

Client: SCS
 Site: AP-2
 Well ID: MW-5C
 Total Depth (ft) (after purge): 23.15
 Depth to Water (ft): 10.21'
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d₂h: 2.12
 Well Volume (L) = gal * 3.785: 8.03

Project No.: GLWGS81
 Location: Plant Hammond
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 20' BGS ~ 23.12'
 Start/Stop Purge Time: 0900/1210
 Purge Rate (mL/min): 2000
 Total Purge Volume (L): 315

Development Date: 1/28/2022
 Field Personnel Name: Thomas Messin

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0900							0.21	3000	0	
0914										pre-purge for turbidity
0929	6.36	534.24	-156.5	8.56	15.06	11.40	11.40	3000	42	well dry - allow for recharge Reduce flow to 2K ml/min
0936								2000	57	
0936	6.21	566.65	-125.4	2.32	17.72	overrange	21.00	2000	67	
0941	6.25	603.55	-133.6	2.98	18.06	682	21.00	2000	77	pause for 10 min Recharge
0951	6.63	2.44	44.6	8.82	15.26	1246	12.62	2000	77	- troll error - restart log
0956	6.25	615.69	-105.0	2.01	17.90	overrange	20.52	2000	87	purge slowly
1001	6.25	630.19	-114.6	2.59	17.86	overrange	20.40	2000	97	
1006	6.30	663.30	-147.8	1.53	18.35	overrange	20.60	2000	107	clear water observed
1011	6.31	643.42	-137.4	2.15	17.86	overrange	20.50	2000	117	
1016	6.30	636.08	-145.7	1.07	18.43	3712	20.6	2000	127	
1021	6.304	643.19	-172.3	1.29	18.26	overrange	17.9'	2000	137	
1026	6.37	646.54	-214.1	0.36	18.31	154	20.0	2000	147	
1031	6.34	656.21	-124.5	0.58	17.91	630	20.5	2000	157	(20 min) (photocall) allow min recharge (concrete)
1035	6.26	725.16	-44.7	3.18	17.31	1027	12.20	2000	167	
1100	6.36	724.44	-86.1	0.67	18.72	24	14.45	2000	177	visibly clear
1105	6.31	641.61	-70.1	1.73	18.84	51	16.35	2000	187	
1110	6.37	733.35	-96.0	0.32	18.44	30.7	17.10	2000	197	
Stabilizing Criteria	+/- 0.1 SU	+/- 5%		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		< 5 NTUs				

WELL DEVELOPMENT LOG SHEET

Low flow test

pg 1 of 2

Client: SCS
 Site: wp2
 Well ID: MLW-52
 Total Depth (ft) (after purge): 73.15
 Depth to Water (ft): 12.00
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d₂h:
 Well Volume (L) = gal * 3.785:

Project No.: GLW6581
 Location: Plant Hammerd
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 18.10
 Start/Stop Purge Time: 1233/1446
 Purge Rate (mL/min): 200
 Total Purge Volume (L): 27

Development Date: 11/28/2022
 Field Personnel Name: Thomas Messer

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1233	6.43	729.78	-52.9	1.17	16.11	43.6	12.00	200	0	
1238	6.42	729.27	-53.2	1.03	16.43	26.9	12.15	200	1	
1243	6.40	727.76	-51.5	1.12	16.42	31.9	12.25	200	2	
1248	6.41	726.53	-51.9	1.05	16.44	16.2	12.10	200	3	
1253	6.41	728.35	-51.4	1.02	16.25	21.6	12.10	200	4	
1300	6.43	718.56	-59.1	0.94	15.44	15.6	12.10	200	5	
1303	6.42	737.79	-51.0	0.88	15.12	13.3	12.10	200	6	
1308	6.41	726.74	-49.7	0.99	16.30	29.7	12.10	200	7	
1313	6.42	741.84	-51.5	0.84	15.71	14.8	12.10	200	8	
1318	6.41	737.77	-51.8	0.84	16.62	14.2	12.10	200	9	
1323	6.44	718.93	-57.7	0.83	15.22	14.7	12.10	200	10	
1328	6.45	723.66	-47.3	0.72	13.95	6.79	12.10	200	11	
1333	6.42	743.15	-49.7	0.73	14.86	6.50	12.10	200	12	
1338	6.42	718.34	-53.9	0.87	14.40	15.2	12.10	200	13	
1343	6.44	726.65	-44.8	0.83	13.50	13.3	11.0	200	14	
1348	6.46	729.46	-45.4	0.65	12.91	6.84	11.3	200	15	pump stalled
1353	6.45	734.77	-44.9	0.63	13.04	5.44	11.3	200	16	pump stalled
1358	6.43	729.03	-44.1	0.77	14.04	9.36	11.3	200	17	
1403	6.43	727.75	-44.0	0.85	14.76	8.63	11.3	200	18	
Stabilizing Criteria	+/- 0.1 SU	+/- 5%		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		< 5 NTUs				

Low-Flow Test Report:

Test Date / Time: 1/28/2022 9:42:42 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: Device Location Initial Depth to Water: 11.7 ft	Estimated Total Volume Pumped: 315 liter Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 8.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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Test Notes:

Well development

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/28/2022 9:42 AM	00:00	6.28 pH	18.16 °C	613.77 µS/cm	1.78 mg/L	--	-174.3 mV	11.70 ft	2,000.0 ml/min
1/28/2022 9:43 AM	00:50	6.27 pH	18.35 °C	603.30 µS/cm	3.07 mg/L	--	-203.3 mV	11.70 ft	2,000.0 ml/min
1/28/2022 9:54 AM	11:57	6.63 pH	15.26 °C	2.44 µS/cm	8.82 mg/L	1,246.0 NTU	44.6 mV	12.62 ft	2,000.0 ml/min
1/28/2022 9:59 AM	16:57	6.25 pH	17.90 °C	617.69 µS/cm	2.01 mg/L	--	-105.0 mV	20.52 ft	2,000.0 ml/min
1/28/2022 10:04 AM	21:57	6.25 pH	17.86 °C	630.19 µS/cm	2.59 mg/L	--	-114.6 mV	20.40 ft	2,000.0 ml/min
1/28/2022 10:09 AM	26:57	6.30 pH	18.35 °C	663.30 µS/cm	1.53 mg/L	--	-147.8 mV	20.60 ft	2,000.0 ml/min
1/28/2022 10:14 AM	31:57	6.31 pH	17.86 °C	643.42 µS/cm	2.18 mg/L	--	-137.4 mV	20.80 ft	2,000.0 ml/min
1/28/2022 10:19 AM	36:57	6.30 pH	18.43 °C	686.08 µS/cm	1.07 mg/L	3,712.0 NTU	-145.7 mV	20.80 ft	2,000.0 ml/min
1/28/2022 10:24 AM	41:57	6.34 pH	18.26 °C	693.19 µS/cm	1.29 mg/L	--	-172.3 mV	17.90 ft	2,000.0 ml/min
1/28/2022 10:29 AM	46:57	6.37 pH	18.31 °C	696.54 µS/cm	0.36 mg/L	1,554.0 NTU	-214.1 mV	20.00 ft	2,000.0 ml/min
1/28/2022 10:34 AM	51:57	6.34 pH	17.92 °C	686.21 µS/cm	0.58 mg/L	630.00 NTU	-124.5 mV	20.00 ft	2,000.0 ml/min
1/28/2022 10:55 AM	01:12:30	6.26 pH	17.81 °C	683.17 µS/cm	3.18 mg/L	1,027.0 NTU	-44.7 mV	20.00 ft	2,000.0 ml/min
1/28/2022 11:00 AM	01:17:30	6.36 pH	18.72 °C	729.49 µS/cm	0.67 mg/L	24.00 NTU	-86.1 mV	14.45 ft	2,000.0 ml/min
1/28/2022 11:05 AM	01:22:30	6.31 pH	18.84 °C	641.61 µS/cm	1.73 mg/L	51.00 NTU	-70.1 mV	16.35 ft	2,000.0 ml/min
1/28/2022 11:10 AM	01:27:30	6.37 pH	18.44 °C	733.35 µS/cm	0.32 mg/L	30.70 NTU	-96.0 mV	17.10 ft	2,000.0 ml/min
1/28/2022 11:15 AM	01:32:30	6.23 pH	18.48 °C	611.53 µS/cm	3.25 mg/L	46.70 NTU	-57.6 mV	18.85 ft	2,000.0 ml/min
1/28/2022 11:20 AM	01:37:30	6.43 pH	19.19 °C	748.03 µS/cm	0.02 mg/L	698.00 NTU	-132.6 mV	19.65 ft	2,000.0 ml/min

1/28/2022 11:25 AM	01:42:30	6.33 pH	19.06 °C	693.20 µS/cm	0.84 mg/L	40.00 NTU	-77.0 mV	20.22 ft	2,000.0 ml/min
1/28/2022 11:30 AM	01:47:30	6.38 pH	19.06 °C	737.18 µS/cm	0.92 mg/L	38.90 NTU	-85.0 mV	19.15 ft	2,000.0 ml/min
1/28/2022 11:35 AM	01:52:30	6.41 pH	18.83 °C	732.79 µS/cm	0.55 mg/L	22.00 NTU	-89.9 mV	20.53 ft	2,000.0 ml/min
1/28/2022 11:40 AM	01:57:30	6.40 pH	18.75 °C	730.11 µS/cm	0.56 mg/L	50.90 NTU	-85.3 mV	20.80 ft	2,000.0 ml/min
1/28/2022 11:45 AM	02:02:30	6.34 pH	18.92 °C	673.33 µS/cm	2.35 mg/L	1,164.0 NTU	-54.3 mV	20.60 ft	2,000.0 ml/min
1/28/2022 11:50 AM	02:07:30	6.38 pH	18.93 °C	708.17 µS/cm	1.79 mg/L	25.30 NTU	-76.5 mV	20.60 ft	2,000.0 ml/min
1/28/2022 11:55 AM	02:12:30	6.38 pH	18.66 °C	702.91 µS/cm	1.52 mg/L	7.61 NTU	-72.3 mV	20.60 ft	2,000.0 ml/min
1/28/2022 12:00 PM	02:17:30	6.38 pH	18.57 °C	707.69 µS/cm	1.68 mg/L	6.87 NTU	-70.5 mV	20.60 ft	2,000.0 ml/min
1/28/2022 12:05 PM	02:22:30	6.38 pH	18.53 °C	707.17 µS/cm	1.91 mg/L	8.27 NTU	-57.7 mV	20.60 ft	2,000.0 ml/min
1/28/2022 12:10 PM	02:27:30	6.37 pH	18.38 °C	702.43 µS/cm	1.41 mg/L	16.80 NTU	-65.8 mV	20.60 ft	2,000.0 ml/min

Low-Flow Test Report:

Test Date / Time: 1/28/2022 12:33:03 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Initial Depth to Water: 12 ft	Pump Type: Monsoon Pump Intake From TOC: 18.13 ft Estimated Total Volume Pumped: 27 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: -0.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728550
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Test Notes:

Low flow test, no samples

Weather Conditions:

Cloudy, 37 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/28/2022 12:33 PM	00:00	6.43 pH	16.11 °C	729.78 µS/cm	1.17 mg/L	43.60 NTU	-52.9 mV	12.00 ft	200.00 ml/min
1/28/2022 12:38 PM	05:00	6.42 pH	16.43 °C	729.27 µS/cm	1.03 mg/L	26.90 NTU	-53.2 mV	12.18 ft	200.00 ml/min
1/28/2022 12:43 PM	10:00	6.40 pH	16.92 °C	727.76 µS/cm	1.12 mg/L	31.90 NTU	-51.5 mV	12.25 ft	200.00 ml/min
1/28/2022 12:48 PM	15:00	6.41 pH	16.60 °C	726.53 µS/cm	1.05 mg/L	16.20 NTU	-51.9 mV	12.10 ft	200.00 ml/min
1/28/2022 12:53 PM	20:00	6.41 pH	16.25 °C	728.35 µS/cm	1.02 mg/L	21.60 NTU	-51.4 mV	12.10 ft	200.00 ml/min
1/28/2022 12:58 PM	25:00	6.43 pH	15.44 °C	718.36 µS/cm	0.94 mg/L	15.60 NTU	-59.1 mV	12.10 ft	200.00 ml/min
1/28/2022 1:03 PM	30:00	6.42 pH	15.12 °C	737.79 µS/cm	0.88 mg/L	13.30 NTU	-51.0 mV	12.10 ft	200.00 ml/min
1/28/2022 1:08 PM	35:00	6.41 pH	16.30 °C	726.74 µS/cm	0.99 mg/L	29.70 NTU	-49.7 mV	12.10 ft	200.00 ml/min
1/28/2022 1:13 PM	40:00	6.42 pH	15.71 °C	741.84 µS/cm	0.84 mg/L	14.80 NTU	-51.5 mV	12.10 ft	200.00 ml/min
1/28/2022 1:18 PM	45:00	6.41 pH	16.62 °C	737.77 µS/cm	0.84 mg/L	14.40 NTU	-51.8 mV	12.10 ft	200.00 ml/min
1/28/2022 1:23 PM	50:00	6.44 pH	15.22 °C	718.93 µS/cm	0.83 mg/L	14.70 NTU	-57.7 mV	12.10 ft	200.00 ml/min
1/28/2022 1:28 PM	55:00	6.45 pH	13.95 °C	723.06 µS/cm	0.72 mg/L	6.79 NTU	-47.3 mV	12.10 ft	200.00 ml/min
1/28/2022 1:33 PM	01:00:00	6.42 pH	14.86 °C	743.15 µS/cm	0.75 mg/L	6.50 NTU	-49.7 mV	12.10 ft	200.00 ml/min
1/28/2022 1:38 PM	01:05:00	6.44 pH	14.40 °C	718.34 µS/cm	0.87 mg/L	15.20 NTU	-53.9 mV	11.50 ft	200.00 ml/min

1/28/2022 1:43 PM	01:10:00	6.44 pH	13.50 °C	726.65 µS/cm	0.83 mg/L	13.30 NTU	-44.8 mV	11.00 ft	200.00 ml/min
1/28/2022 1:48 PM	01:15:00	6.46 pH	12.91 °C	729.46 µS/cm	0.65 mg/L	6.84 NTU	-45.4 mV	11.30 ft	200.00 ml/min
1/28/2022 1:53 PM	01:20:00	6.45 pH	13.04 °C	734.77 µS/cm	0.63 mg/L	5.44 NTU	-44.9 mV	11.30 ft	200.00 ml/min
1/28/2022 1:58 PM	01:25:00	6.43 pH	14.04 °C	729.03 µS/cm	0.77 mg/L	9.36 NTU	-44.1 mV	11.30 ft	200.00 ml/min
1/28/2022 2:03 PM	01:30:00	6.43 pH	14.76 °C	722.75 µS/cm	0.85 mg/L	8.63 NTU	-44.0 mV	11.30 ft	200.00 ml/min
1/28/2022 2:08 PM	01:35:00	6.45 pH	13.27 °C	700.47 µS/cm	0.90 mg/L	11.30 NTU	-47.7 mV	11.30 ft	200.00 ml/min
1/28/2022 2:13 PM	01:40:00	6.46 pH	11.03 °C	718.23 µS/cm	0.87 mg/L	8.57 NTU	-47.7 mV	11.30 ft	200.00 ml/min
1/28/2022 2:18 PM	01:45:00	6.39 pH	13.77 °C	720.54 µS/cm	1.00 mg/L	18.00 NTU	-46.0 mV	11.50 ft	200.00 ml/min
1/28/2022 2:23 PM	01:50:00	6.36 pH	14.46 °C	673.84 µS/cm	1.60 mg/L		-35.6 mV	11.50 ft	200.00 ml/min
1/28/2022 2:26 PM	01:53:18	6.22 pH	16.79 °C	566.50 µS/cm	2.93 mg/L	20.00 NTU	-6.2 mV	11.50 ft	200.00 ml/min
1/28/2022 2:31 PM	01:58:18	6.33 pH	13.99 °C	698.66 µS/cm	1.79 mg/L	15.70 NTU	-36.6 mV	11.50 ft	200.00 ml/min
1/28/2022 2:36 PM	02:03:18	6.41 pH	13.39 °C	718.56 µS/cm	0.94 mg/L	4.75 NTU	-48.0 mV	11.50 ft	200.00 ml/min
1/28/2022 2:41 PM	02:08:18	6.42 pH	12.98 °C	732.40 µS/cm	0.75 mg/L	5.57 NTU	-41.6 mV	11.50 ft	200.00 ml/min
1/28/2022 2:46 PM	02:13:18	6.44 pH	13.09 °C	715.92 µS/cm	0.71 mg/L	4.80 NTU	-50.7 mV	11.50 ft	200.00 ml/min
1/28/2022 2:51 PM	02:18:18	6.42 pH	12.87 °C	743.80 µS/cm	0.76 mg/L	3.94 NTU	-42.5 mV	11.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
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EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Messler Date: 11/28/2022 Time (start): 0811 Time (finish): 0828
 smarTroll SN: 77855C Turbidity Meter Type: LaMotte 2020we SN: 2491-2312
 Weather Conditions: overcast, 40° Facility and Unit: Plant Hammer Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	2010708B	8.18	4490	4745.5	4745.5 4490	+/- 5%	<input checked="" type="radio"/> Yes No	
pH (4)	0512022		4.00	4.16	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	<input checked="" type="radio"/> Yes No	⊗
pH (7)	21010000 0512022	9.85	7.00	7.37	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No	⊗
pH (10)	21050195 0512022	10.76	10.00	10.61	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No	⊗
ORP (mV)	21140141 0512022	10.33	228	236.6	228	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.6	100	+/- 6% saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0	0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.14	1.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	9.37	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728550
Created 1/28/2022

Sensor **RDO**

Serial Number 728776
Last Calibrated 1/28/2022

Calibration Details

Slope 1.152685
Offset 0.00 mg/L

Calibration point 100%

Concentration 10.56 mg/L
Temperature 6.29 °C
Barometric Pressure 998.41 mbar

Sensor **Conductivity**

Serial Number 728550
Last Calibrated 1/28/2022

Calibration Details

Cell Constant 0.987
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 718937
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	20796
Last Calibrated	1/28/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 160.5 mV
Temperature 9.28 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -3.5 mV
Temperature 10.04 °C

Calibration Point 3

pH of Buffer 10.12 pH
pH mV -163.1 mV
Temperature 10.31 °C

Slope and Offset 1

Slope -53.58 mV/pH
Offset -0.3 mV

Slope and Offset 2

Slope -52.18 mV/pH
Offset -0.4 mV

ORP

ORP Solution ORP Standard
Offset -21.7 mV
Temperature 10.33 °C

APPENDIX D

Certified Well Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
MW-52	1549277.589	1938398.817	586.11	1549277.411	1938400.126	583.25	NAIL ON PAD
Benchmark	Northing	Easting	Elevation				
BM-H2	1548149.4490	1938960.2220	590.68				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 04/06/2022. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARKS BM-H1 AND BM-H2 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

4/11/2022



COA - LS003119
Exp. 06/30/2022

APPENDIX B

Well Maintenance and Repair Documentation Memoranda

MEMORANDUM

DATE: June 22, 2022

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.

CC: Ben Hodges, P.G., Georgia Power Company

FROM: Geosyntec Consultants

SUBJECT: Plant Hammond Ash Pond 2 (AP-2) – Well Maintenance and Repair Documentation, Georgia Power Company

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond AP-2 during the 2022 semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Hammond/AP-2	1/31/2022	All Wells	Checked and cleared weep holes of debris.

ATTACHMENT

Well Inspection Forms

January 2022

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP 1/2/3
 Field Technician C. CAIN
 Well ID HGRA-1

Date (mm/dd/yyyy) 01/31/22
 Field Conditions Sec 55

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1/31/22</u>
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Baldror pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond JAP 1/2/3
 Field Technician C. CAIN
 Well ID HGLCA-2

Date (mm/dd/yyyy) 6/31/22
 Field Conditions sun 55

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP 1/2/3
 Field Technician C. CAIN 1/31/22
 Well ID HGRA-3

Date (mm/dd/yyyy) 01/31/22
 Field Conditions Sun 55

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bollard pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond
 Field Technician C. CAIN
 Well ID HGW/A-4

Date (mm/dd/yyyy) 1/31/22
 Field Conditions Spring 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1/31/22</u>
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician A. Szwarz
 Well ID HGW A-5

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Dedicated sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Placent Hammond AP.2
 Field Technician Thomas Hessler
 Well ID H-6

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sun, SC

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Black -</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Humpstone/AP-2
 Field Technician Thomas Hesse
 Well ID HGLWA-42D

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well visible and accessible?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well properly identified with the correct well ID?
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is the well in a high traffic area?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are appropriate measures in place to protect the well (e.g., bollards)?
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the protective casing free from apparent damage and able to be secured?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the casing free of degradation or deterioration?
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the casing have a functioning weep hole?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well locked?
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If locked, is the well lock in good condition?
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well lid in good condition?
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well pad in good condition (not cracked or broken)?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well pad sloped away from the protective casing?
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well pad in complete contact with the protective casing?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the pad surface clean (not covered with sediment or debris)?
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the cap prevent entry of foreign material into the well?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well properly vented for equilibration of air pressure?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the survey point clearly marked on the inner casing?
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the depth of the well consistent with the original well log?
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 and Data Collection Equipment			
a	<input type="checkbox"/>	<input type="checkbox"/>	Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .
b	<input type="checkbox"/>	<input type="checkbox"/>	If equipped with dedicated sampling equipment, is it in good operational condition?
c	<input type="checkbox"/>	<input type="checkbox"/>	If equipped with a dedicated water quality sonde, is it in good operational condition?
d	<input type="checkbox"/>	<input type="checkbox"/>	Does the desiccant need to be replaced on the water quality sonde?
e	<input type="checkbox"/>	<input type="checkbox"/>	If equipped with a water level data logger, is it in good operational condition?
f	<input type="checkbox"/>	<input type="checkbox"/>	Does the well recharge adequately when purged?
g	<input type="checkbox"/>	<input type="checkbox"/>	Does the well require redevelopment (low flow, excess turbidity)?
6 Corrective Actions			
a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are corrective actions needed?
If yes, indicate here:			

*Bluebird-
 W/LD
 W/LD
 W/LD
 W/LD
 W/LD*

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1/213
 Field Technician C. CAIN
 Well ID HGWA-43D

Date (mm/dd/yyyy) 11/31/22
 Field Conditions Sm 55

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP 11213
 Field Technician C. CAIN
 Well ID HGW-44D

Date (mm/dd/yyyy) 01/31/22
 Field Conditions sun 55

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician A. Swasey
 Well ID H6W6-14

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated water quality sonde dedicated water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician A. Swast
 Well ID UoWC-15

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Hunt Hammond / AP-2
 Field Technician A. Sewast
 Well ID HGW-16

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions SUNNY, 50°F

	Yes	No	Comments
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?		✓	
d Are appropriate measures in place to protect the well (e.g., bollards)?	✓		
e 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?	✓		
f If locked, is the well lock in good condition?	✓		
g Is the well lid 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 and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	✓		
f Does the well recharge adequately when purged?	✓		
g Does the well require redevelopment (low flow, excess turbidity)?		✓	
6 Corrective Actions			
a Are corrective actions needed?		✓	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician A. Szwasz
 Well ID HGVC-17

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny 50°F

	Yes	No	Comments
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?		✓	
d Are appropriate measures in place to protect the well (e.g., bollards)?	✓		
e 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?	✓		
f If locked, is the well lock in good condition?	✓		
g Is the well lid 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 and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	✓		
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	✓		
g Does the well require redevelopment (low flow, excess turbidity)?		✓	
6 Corrective Actions			
a Are corrective actions needed?		✓	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician A. Szwest
 Well ID H6-WC-18

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated water quality sonde dedicated water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond WPI/2
 Field Technician Thomas Messler
 Well ID MW-8

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sun, 50'

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?			<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?			<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Mammox / AP-2
 Field Technician Richard Hesse
 Well ID WW-9

Date (mm/dd/yyyy) 02/13/2028
 Field Conditions sun, 50°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2, AP-4
 Field Technician A. Szewast
 Well ID MW-12

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions sunny, 50°F

	Yes	No	Comments
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?		✓	
d Are appropriate measures in place to protect the well (e.g., bollards)?	✓		
e 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?	✓		
f If locked, is the well lock in good condition?	✓		
g Is the well lid 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 and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	✓		
f Does the well recharge adequately when purged?	✓		
g Does the well require redevelopment (low flow, excess turbidity)?		✓	
Corrective Actions			
a Are corrective actions needed?		✓	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammers / AP-2
 Field Technician Fluency Keesch
 Well ID mw-16

Date (mm/dd/yyyy) 01/13/2022
 Field Conditions sun - 50°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?			<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?			<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Murray Beesh
 Well ID WH-17

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions sun, 50°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?			<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?			<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammer / HP2
 Field Technician Harold Hegg
 Well ID ML-15

Date (mm/dd/yyyy) 02/13/2022
 Field Conditions sun, so

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
b	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
c	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

If yes, indicate here:

Well Inspection Form

Plant Name/Unit Name Plant Hancock / AP-2
 Field Technician Francis Hessler
 Well ID MCW-33

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sun, 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>BlueDe-</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name MTD Plant Hammond / JPS
 Field Technician Thompson, ash
 Well ID mid-34D

Date (mm/dd/yyyy) 01/31/2024
 Field Conditions sun, 50°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician A. Szwarz
 Well ID MW-35

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated water quality sonde dedicated water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>MA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Does the desiccant need to be replaced on the water quality sonde?			<u>MA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here: <hr/> <hr/>			

Well Inspection Form

Plant Name/Unit Name Plant Hemmings / A-2
 Field Technician Thomas Bessie
 Well ID MW-3GD

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?			<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?			<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Phonics Hestel
 Well ID MW-51

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions SUN, SO.

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Thomson/30
 Field Technician Plant Services/APC
 Well ID MW 52

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions SLM, SO

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hummer / AP-2
 Field Technician TUCOUB [Signature]
 Well ID WV-3112

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sun, 550

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well visible and accessible?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well properly identified with the correct well ID?
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is the well in a high traffic area?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are appropriate measures in place to protect the well (e.g., bollards)?
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the protective casing free from apparent damage and able to be secured?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the casing free of degradation or deterioration?
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the casing have a functioning weep hole?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well locked?
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If locked, is the well lock in good condition?
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well lid in good condition?
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well pad in good condition (not cracked or broken)?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well pad sloped away from the protective casing?
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well pad in complete contact with the protective casing?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the pad surface clean (not covered with sediment or debris)?
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the cap prevent entry of foreign material into the well?
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the well properly vented for equilibration of air pressure?
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the survey point clearly marked on the inner casing?
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the depth of the well consistent with the original well log?
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 and Data Collection Equipment			
a	<input type="checkbox"/>	<input type="checkbox"/>	Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . N/A
b	<input type="checkbox"/>	<input type="checkbox"/>	If equipped with dedicated sampling equipment, is it in good operational condition? N/A
c	<input type="checkbox"/>	<input type="checkbox"/>	If equipped with a dedicated water quality sonde, is it in good operational condition? N/A
d	<input type="checkbox"/>	<input type="checkbox"/>	Does the desiccant need to be replaced on the water quality sonde? N/A
e	<input type="checkbox"/>	<input type="checkbox"/>	If equipped with a water level data logger, is it in good operational condition? N/A
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the well recharge adequately when purged?
g	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Does the well require redevelopment (low flow, excess turbidity)?
6 Corrective Actions			
a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are corrective actions needed?
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician A. Szwarz
 Well ID MU-22

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, 50°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Stroms/Bestu
 Field Technician Plant Hammer / ADZ *50*
 Well ID MW-23D

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions Sunny, CO

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Yuma Wash 50
 Field Technician Plum Hammer/AD-20
 Well ID WW-37D

Date (mm/dd/yyyy) 01/31/2022
 Field Conditions sun, 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

MEMORANDUM

DATE: November 11, 2022

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.

CC: Ben Hodges, P.G., Georgia Power Company

FROM: Geosyntec Consultants

SUBJECT: Plant Hammond Ash Pond 2 (AP-2) – Well Maintenance and Repair Documentation, Georgia Power Company

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond AP-2 during the 2022 semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Hammond/AP-2	8/1/2022	All Wells	Checked and cleared weep holes of debris.

ATTACHMENT

Well Inspection Forms

August 2022

Well Inspection Form

Plant Name/Unit Name Plant Hummon, AP-112/3
 Field Technician Thomas Kessler
 Well ID HGWJ-1

Date (mm/dd/yyyy) 08/01/2022
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1/2/3
 Field Technician Thomas Kessler
 Well ID F(2)W4-2

Date (mm/dd/yyyy) 08/11/2022
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a	<input checked="" type="checkbox"/> Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .		
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>BlueData</u>
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
d	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
e	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>N/A</u>
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

If yes, indicate here:

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1/213
 Field Technician Thomas K.
 Well ID HGWA-3

Date (mm/dd/yyyy) 08/01/2022
 Field Conditions 5 cmHg, 80°

	Yes	No	Comments
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?		/	
d Are appropriate measures in place to protect the well (e.g., bollards)?	/		
e 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?	/		
f If locked, is the well lock in good condition?	/		
g Is the well lid 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 and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			BlueJa-
b If equipped with dedicated sampling equipment, is it in good operational condition?	/		
c If equipped with a dedicated water quality sonde, is it in good operational condition?			N/A
d Does the desiccant need to be replaced on the water quality sonde?			N/A
e If equipped with a water level data logger, is it in good operational condition?			N/A
f Does the well recharge adequately when purged?	/		N/A
g Does the well require redevelopment (low flow, excess turbidity)?			N/A
6 Corrective Actions			
a Are corrective actions needed?		/	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1213
 Field Technician Thomas K.
 Well ID Flower - 413 D

Date (mm/dd/yyyy) 08/10/2022
 Field Conditions Sunny 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Blank</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>WLS</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>WLS</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>W/L</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1/213
 Field Technician Thomas K
 Well ID HGLW 2-44D

Date (mm/dd/yyyy) 08/01/2022
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

If yes, indicate here:

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician Instan O.
 Well ID HGWd-4

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Justin O.
 Well ID H019-5

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician TRUSTAN O
 Well ID HGWA-6

Date (mm/dd/yyyy) 8/1/22
 Field Conditions sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician Tristan D.
 Well ID HGWA-42D
HGWA-42D
 C.Hug 9.1.2022

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan O.
 Well ID HWC-14

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

1 Location/Identification

- | | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|----------|
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e 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"/> | |

2 Protective Casing

- | | | | |
|---|-------------------------------------|--------------------------|--|
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" 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"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" 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"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" 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"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" 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"/> | |
| 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"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with past well logs? | <input checked="" 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"/> | |

5 Sampling and Data Collection Equipment

- | | | | |
|--|-------------------------------------|-------------------------------------|------------------------------------|
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Bladder water quality sonde</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>NA TO 8/1/22</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

6 Corrective Actions

- | | | | |
|----------------------------------|--------------------------|-------------------------------------|--|
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Rustan D.
 Well ID HGWG-15

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan O
 Well ID HGWIC-16

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>water level data logger</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician Tristan O.
 Well ID HGWC-17

Date (mm/dd/yyyy) 8/1/22
 Field Conditions sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/ AP-2
 Field Technician Tristan O.
 Well ID HG-WC-18

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>water quality sonde</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-112
 Field Technician Thomas K
 Well ID MW-5

Date (mm/dd/yyyy) 08/01/2020
 Field Conditions 08/01/2020

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<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"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?			<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?			<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP. 2
 Field Technician Thomas Kessler
 Well ID mw-7

Date (mm/dd/yyyy) 08/01/2008
 Field Conditions overcast 88°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?			<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?			<u>N/A</u>
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond #P214
 Field Technician Thomas Messler
 Well ID MW-R

Date (mm/dd/yyyy) 08/01/2022
 Field Conditions overcast, 85°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>level troll</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Does the well recharge adequately when purged?		<input checked="" type="checkbox"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?		<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / HP-2
 Field Technician Thomas Messler
 Well ID MCW-16

Date (mm/dd/yyyy) 08/01/2029
 Field Conditions overcast, 85°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input type="checkbox"/>	<u>w/q</u>
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician Thomas Messer
 Well ID MW-17

Date (mm/dd/yyyy) 08/10/2024
 Field Conditions overcast, 85°

	Yes	No	Comments
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?		✓	
d Are appropriate measures in place to protect the well (e.g., bollards)?	✓		
e 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?	✓		
f If locked, is the well lock in good condition?	✓		
g Is the well lid 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 and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			w/q
b If equipped with dedicated sampling equipment, is it in good operational condition?			w/q
c If equipped with a dedicated water quality sonde, is it in good operational condition?			w/q
d Does the desiccant need to be replaced on the water quality sonde?			w/q
e If equipped with a water level data logger, is it in good operational condition?			w/l
f Does the well recharge adequately when purged?			w/q
g Does the well require redevelopment (low flow, excess turbidity)?			w/q
6 Corrective Actions			
a Are corrective actions needed?		✓	
If yes, indicate here:			

Well Inspection Form

Plant Hammond / P-2

Plant Name/Unit Name AW-15
 Field Technician Thomas Nebler
 Well ID MW-15

Date (mm/dd/yyyy) 08/01/2022
 Field Conditions overcast, 85°

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
6 Corrective Actions			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan D.
 Well ID MW-21D

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>NA TO 8/1/22</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan O.
 Well ID MW-22

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>		
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>		
c Is the well in a high traffic area?		<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>		
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>		
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>		
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>		
c Does the casing have a functioning weep hole?	<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"/>		
e Is the well locked?	<input checked="" type="checkbox"/>		
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>		
g Is the well lid in good condition?	<input checked="" type="checkbox"/>		
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>		
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>		
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>		
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>		
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>		
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>		
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>		
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>		
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>		
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>		
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>		
g Does the well require redevelopment (low flow, excess turbidity)?		<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Rustan O.
 Well ID MU-23D

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80'

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			
<hr/>			
<hr/>			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan D
 Well ID MW-33

Date (mm/dd/yyyy) 8/11/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan O
 Well ID MW-34D

Date (mm/dd/yyyy) 8/1/22
 Field Conditions sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician Tristan C.
 Well ID MW-35

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>water quality sonde</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name P Unit Hammond/AP-2
 Field Technician Anthony S.
 Well ID MW-36D

Date (mm/dd/yyyy) 08/01/2022
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" 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"/>	
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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			N/A
b If equipped with dedicated sampling equipment, is it in good operational condition?			N/A
c If equipped with a dedicated water quality sonde, is it in good operational condition?			N/A
d Does the desiccant need to be replaced on the water quality sonde?			N/A
e If equipped with a water level data logger, is it in good operational condition?			N/A
f Does the well recharge adequately when purged?			N/A
g Does the well require redevelopment (low flow, excess turbidity)?			N/A
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Trestan O.
 Well ID MW-37D

Date (mm/dd/yyyy) 8/11/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Bladder</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			
<hr/> <hr/>			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Tristan O.
 Well ID MW-51

Date (mm/dd/yyyy) 8/1/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician TRISTON O
 Well ID MW-52

Date (mm/dd/yyyy) 8/11/22
 Field Conditions Sunny, 80°

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e 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"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" 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"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" 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"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" 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"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" 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"/>	
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"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" 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"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA TO 8/11/22</u>
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

APPENDIX C

Laboratory Analytical and Field Sampling Reports

LABORATORY ANALYTICAL REPORTS

January 2022
(Surface Water Sampling)

February 01, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 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.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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 - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584176

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92584176001	H-0.05 (Mid)	Water	01/24/22 11:38	01/25/22 08:36
92584176002	H+0.25 (Mid)	Water	01/24/22 11:29	01/25/22 08:36
92584176003	H+0.35 (Mid)	Water	01/24/22 11:22	01/25/22 08:36
92584176004	H+0.75 (Mid)	Water	01/24/22 11:15	01/25/22 08:36

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92584176001	H-0.05 (Mid)	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92584176002	H+0.25 (Mid)	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92584176003	H+0.35 (Mid)	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92584176004	H+0.75 (Mid)	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Sample: H-0.05 (Mid)		Lab ID: 92584176001	Collected: 01/24/22 11:38	Received: 01/25/22 08:36	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Calcium	17.8	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:15	7440-70-2	
Potassium	1.7	mg/L	0.20	1	01/25/22 13:29	01/25/22 21:13	7440-09-7	
Sodium	4.3	mg/L	1.0	1	01/25/22 13:29	01/25/22 21:13	7440-23-5	
Magnesium	5.0	mg/L	0.050	1	01/25/22 13:29	01/25/22 21:13	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Arsenic	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 17:59	7440-38-2	
Boron	ND	mg/L	0.040	1	01/27/22 09:56	01/28/22 17:59	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 17:59	7440-48-4	
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 17:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 17:59	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	88.0	mg/L	10.0	1		01/28/22 10:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	4.9	mg/L	1.0	1		01/26/22 19:01	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/26/22 19:01	16984-48-8	
Sulfate	5.3	mg/L	1.0	1		01/26/22 19:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Sample: H+0.25 (Mid)		Lab ID: 92584176002	Collected: 01/24/22 11:29	Received: 01/25/22 08:36	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Calcium	18.4	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:19	7440-70-2	
Potassium	1.9	mg/L	0.20	1	01/25/22 13:29	01/25/22 21:41	7440-09-7	
Sodium	5.6	mg/L	1.0	1	01/25/22 13:29	01/25/22 21:41	7440-23-5	
Magnesium	5.1	mg/L	0.050	1	01/25/22 13:29	01/25/22 21:41	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	01/27/22 09:56	01/28/22 18:05	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:05	7440-48-4	
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 18:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 18:05	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	93.0	mg/L	10.0	1		01/28/22 10:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	5.0	mg/L	1.0	1		01/26/22 19:15	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/26/22 19:15	16984-48-8	
Sulfate	7.8	mg/L	1.0	1		01/26/22 19:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Sample: H+0.35 (Mid)		Lab ID: 92584176003	Collected: 01/24/22 11:22	Received: 01/25/22 08:36	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Calcium	17.7	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:24	7440-70-2	
Potassium	1.7	mg/L	0.20	1	01/25/22 13:29	01/25/22 21:46	7440-09-7	
Sodium	5.5	mg/L	1.0	1	01/25/22 13:29	01/25/22 21:46	7440-23-5	
Magnesium	4.8	mg/L	0.050	1	01/25/22 13:29	01/25/22 21:46	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	01/27/22 09:56	01/28/22 18:11	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:11	7440-48-4	
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 18:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 18:11	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	108	mg/L	10.0	1		01/28/22 10:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	5.0	mg/L	1.0	1		01/26/22 19:29	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/26/22 19:29	16984-48-8	
Sulfate	8.3	mg/L	1.0	1		01/26/22 19:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Sample: H+0.75 (Mid)		Lab ID: 92584176004	Collected: 01/24/22 11:15	Received: 01/25/22 08:36	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Calcium	18.0	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:29	7440-70-2	
Potassium	1.9	mg/L	0.20	1	01/25/22 13:29	01/25/22 21:50	7440-09-7	
Sodium	5.9	mg/L	1.0	1	01/25/22 13:29	01/25/22 21:50	7440-23-5	
Magnesium	4.9	mg/L	0.050	1	01/25/22 13:29	01/25/22 21:50	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	ND	mg/L	0.040	1	01/27/22 09:56	01/28/22 18:17	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:17	7440-48-4	
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 18:17	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	98.0	mg/L	10.0	1		01/28/22 10:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	4.9	mg/L	1.0	1		01/26/22 19:43	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/26/22 19:43	16984-48-8	
Sulfate	9.1	mg/L	1.0	1		01/26/22 19:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

QC Batch: 673704 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

METHOD BLANK: 3526379 Matrix: Water
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	01/25/22 20:59	
Magnesium	mg/L	ND	0.050	01/25/22 20:59	
Potassium	mg/L	ND	0.20	01/25/22 20:59	
Sodium	mg/L	ND	1.0	01/25/22 20:59	

LABORATORY CONTROL SAMPLE: 3526380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3526381 3526382

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584176001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	17.8	1	1	18.4	19.1	61	127	75-125	4	20
Magnesium	mg/L	5.0	1	1	6.0	6.2	94	114	75-125	3	20
Potassium	mg/L	1.7	1	1	2.7	2.8	105	114	75-125	3	20
Sodium	mg/L	4.3	1	1	5.3	5.5	100	123	75-125	4	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

QC Batch: 674075 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

METHOD BLANK: 3528272 Matrix: Water
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	01/28/22 17:47	
Boron	mg/L	ND	0.040	01/28/22 17:47	
Cobalt	mg/L	ND	0.0050	01/28/22 17:47	
Lithium	mg/L	ND	0.030	01/28/22 17:47	
Molybdenum	mg/L	ND	0.010	01/28/22 17:47	

LABORATORY CONTROL SAMPLE: 3528273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.092	92	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528285 3528286

Parameter	Units	92584409012 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	1.8J ug/L	0.1	0.1	0.097	0.098	95	96	75-125	1	20	
Boron	mg/L	ND	1	1	1.1	1.0	106	102	75-125	4	20	
Cobalt	mg/L	2.0J ug/L	0.1	0.1	0.097	0.10	95	98	75-125	3	20	
Lithium	mg/L	16.4J ug/L	0.1	0.1	0.13	0.13	112	110	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

QC Batch: 674255 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

METHOD BLANK: 3528806 Matrix: Water
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	01/28/22 10:29	

LABORATORY CONTROL SAMPLE: 3528807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 3528809

Parameter	Units	92584530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1740	1870	7	25	

SAMPLE DUPLICATE: 3530611

Parameter	Units	92583953011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1520	1540	1	25	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

QC Batch: 673904 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: 92584176001, 92584176002, 92584176003, 92584176004

METHOD BLANK: 3527216 Matrix: Water
Associated Lab Samples: 92584176001, 92584176002, 92584176003, 92584176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/26/22 17:51	
Fluoride	mg/L	ND	0.10	01/26/22 17:51	
Sulfate	mg/L	ND	1.0	01/26/22 17:51	

LABORATORY CONTROL SAMPLE: 3527217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527218 3527219

Parameter	Units	92584141001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	18.4	50	50	69.0	69.2	101	102	90-110	0	10		
Fluoride	mg/L	0.41	2.5	2.5	2.9	2.9	100	100	90-110	1	10		
Sulfate	mg/L	14.2	50	50	64.1	64.1	100	100	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527220 3527221

Parameter	Units	92584178003		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	2.1	50	50	53.4	54.4	102	105	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	3	10		
Sulfate	mg/L	11.6	50	50	62.4	63.0	102	103	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584176

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92584176001	H-0.05 (Mid)	EPA 3010A	673704	EPA 6010D	673782
92584176002	H+0.25 (Mid)	EPA 3010A	673704	EPA 6010D	673782
92584176003	H+0.35 (Mid)	EPA 3010A	673704	EPA 6010D	673782
92584176004	H+0.75 (Mid)	EPA 3010A	673704	EPA 6010D	673782
92584176001	H-0.05 (Mid)	EPA 3005A	674075	EPA 6020B	674297
92584176002	H+0.25 (Mid)	EPA 3005A	674075	EPA 6020B	674297
92584176003	H+0.35 (Mid)	EPA 3005A	674075	EPA 6020B	674297
92584176004	H+0.75 (Mid)	EPA 3005A	674075	EPA 6020B	674297
92584176001	H-0.05 (Mid)	SM 2540C-2015	674255		
92584176002	H+0.25 (Mid)	SM 2540C-2015	674255		
92584176003	H+0.35 (Mid)	SM 2540C-2015	674255		
92584176004	H+0.75 (Mid)	SM 2540C-2015	674255		
92584176001	H-0.05 (Mid)	EPA 300.0 Rev 2.1 1993	673904		
92584176002	H+0.25 (Mid)	EPA 300.0 Rev 2.1 1993	673904		
92584176003	H+0.35 (Mid)	EPA 300.0 Rev 2.1 1993	673904		
92584176004	H+0.75 (Mid)	EPA 300.0 Rev 2.1 1993	673904		

REPORT OF LABORATORY ANALYSIS

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

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:

Arcadis

Project #:

WO# : 92584176

PM: MP

Due Date: 02/01/22

CLIENT: GA-ArcadAt1

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MP/25/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.5 Correction Factor: ±0.1
 Add/Subtract (°C)

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
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: _____

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

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

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

Project #

WO# : 92584176

Due Date: 02/01/22

PH: MP

CLIENT: GA-ArcadAt1

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
	1																													
	2																													
	3																													
	4																													
	5																													
	6																													
	7																													
	8																													
	9																													
	10																													
	11																													
	12																													

pH Adjustment Log for Preserved Samples

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

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 27, 2022

Maiya Parks
Pace Analytical Atlanta

110 Technology Pkwy
Peachtree Corners GA 30092

RE: 92584176

Dear Maiya Parks:

Order No: 2201R34

Analytical Environmental Services, Inc. received 4 samples on 1/26/2022 7:55:00 AM for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES’s accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi

Paris Masoudi
Project Manager

Chain of Custody

PASI Charlotte Laboratory



Workorder: 92584176

Workorder Name: Plant Hammond-CCR Ash Pond

Results Requested By: 2/1/2022

Report / Invoice To		Subcontract To				Requested Analysis																	
Maiya Parks Pace Analytical Atlanta 110 Technology Parkway Peachtree Corners, GA 30092 Phone (770)734-4200 Email: maiya.parks@pacelabs.com		AES Atlanta				P.O. 92584176MP																	
State of Sample Origin: GA																							
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved	Preserved Containers						2320B Alkalinity	LAB USE ONLY										
1	H-0.05 (Mid)	1/24/2022 11:38	92584176001	Water	1							X											
2	H+0.25 (Mid)	1/24/2022 11:29	92584176002	Water	1							X											
3	H+0.35 (Mid)	1/24/2022 11:22	92584176003	Water	1							X											
4	H+0.75 (Mid)	1/24/2022 11:15	92584176004	Water	1							X											
5																							
Transfers												Comments											
Released By	Date/Time	Received By	Date/Time	Total & BiCarb Alk																			
Ryan Williams / Pra	1/24/22 07:55	Dave Compendall	1/24/22 7:55																				
Cooler Temperature on Receipt _____ °C				Custody Seal Y or N				Received on Ice Y or N				Samples Intact Y or N											

Client: Pace Analytical Atlanta	Client Sample ID: H-0.05 (MID)
Project Name: 92584176	Collection Date: 1/24/2022 11:38:00 AM
Lab ID: 2201R34-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	58.5	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	58.7	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: H+0.25 (MID)
Project Name: 92584176	Collection Date: 1/24/2022 11:29:00 AM
Lab ID: 2201R34-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	56.4	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	56.4	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: H+0.35 (MID)
Project Name: 92584176	Collection Date: 1/24/2022 11:22:00 AM
Lab ID: 2201R34-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	55.4	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	55.4	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: H+0.75 (MID)
Project Name: 92584176	Collection Date: 1/24/2022 11:15:00 AM
Lab ID: 2201R34-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	54.1	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	54.1	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



Pace Analytical Atlanta

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: Pace Analytical Atlanta AES Work Order Number: 2201R34

2. Carrier: FedEx UPS USPS Client Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 3-12 regarding shipping conditions, temperature, and TAT.

13. Cooler 1 Temperature 3.4 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials). HM 1/26/22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 16-26 regarding sample containers, COC, and analyses.

27. Comments: I certify that I have completed sections 16-27 (dated initials). HM 1/26/22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 28-30 regarding chemical preservation and pH adjustment.

31. * Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
32. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation. I certify that I have completed sections 28-30 (dated initials). HM 1/26/22

Client: Pace Analytical Atlanta
 Project Name: 92584176
 Workorder: 2201R34

ANALYTICAL QC SUMMARY REPORT

BatchID: R475961

Sample ID: LCS-R475961	Client ID:	Units: mg/L	Prep Date:	Run No: 475961							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R475961	Analysis Date: 01/26/2022	Seq No: 10983447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	124.4	3.00	125.0		99.5	90	110				
------------------------------	-------	------	-------	--	------	----	-----	--	--	--	--

Sample ID: 2201O31-006CDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 475961							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R475961	Analysis Date: 01/26/2022	Seq No: 10983453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	536.5	3.00						539.3	0.522	30	
------------------------------	-------	------	--	--	--	--	--	-------	-------	----	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

February 01, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 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.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

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 - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584178

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92584178001	AP2 Up	Water	01/24/22 13:35	01/25/22 08:36
92584178002	AP2 Mid	Water	01/24/22 12:35	01/25/22 08:36
92584178003	AP2 Down	Water	01/24/22 12:24	01/25/22 08:36

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584178

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92584178001	AP2 Up	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	4	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92584178002	AP2 Mid	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92584178003	AP2 Down	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	5	PASI-GA
		SM 2540C-2015	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

Sample: AP2 Up	Lab ID: 92584178001	Collected: 01/24/22 13:35	Received: 01/25/22 08:36	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.8	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:48	7440-70-2		
Potassium	0.56	mg/L	0.20	1	01/25/22 13:29	01/25/22 22:09	7440-09-7		
Sodium	1.9	mg/L	1.0	1	01/25/22 13:29	01/25/22 22:09	7440-23-5		
Magnesium	2.7	mg/L	0.050	1	01/25/22 13:29	01/25/22 22:09	7439-95-4		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	ND	mg/L	0.040	1	01/27/22 09:56	01/28/22 18:23	7440-42-8		
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:23	7440-48-4		
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 18:23	7439-93-2		
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 18:23	7439-98-7		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	102	mg/L	10.0	1		01/31/22 19:10			
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	1		01/26/22 21:07	16887-00-6		
Fluoride	ND	mg/L	0.10	1		01/26/22 21:07	16984-48-8		
Sulfate	6.0	mg/L	1.0	1		01/26/22 21:07	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

Sample: AP2 Mid	Lab ID: 92584178002	Collected: 01/24/22 12:35	Received: 01/25/22 08:36	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	0.60	mg/L	0.20	1	01/25/22 13:29	01/25/22 22:14	7440-09-7	
Sodium	1.9	mg/L	1.0	1	01/25/22 13:29	01/25/22 22:14	7440-23-5	
Magnesium	3.0	mg/L	0.050	1	01/25/22 13:29	01/25/22 22:14	7439-95-4	
Calcium	31.9	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:53	7440-70-2	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:29	7440-38-2	
Boron	0.043	mg/L	0.040	1	01/27/22 09:56	01/28/22 18:29	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:29	7440-48-4	
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 18:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 18:29	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	95.0	mg/L	10.0	1		01/31/22 19:10		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	1.9	mg/L	1.0	1		01/26/22 21:20	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/26/22 21:20	16984-48-8	
Sulfate	11.4	mg/L	1.0	1		01/26/22 21:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: AP2 Down Lab ID: 92584178003 Collected: 01/24/22 12:24 Received: 01/25/22 08:36 Matrix: Water								
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	0.62	mg/L	0.20	1	01/25/22 13:29	01/25/22 22:19	7440-09-7	
Sodium	1.9	mg/L	1.0	1	01/25/22 13:29	01/25/22 22:19	7440-23-5	
Magnesium	3.1	mg/L	0.050	1	01/25/22 13:29	01/25/22 22:19	7439-95-4	
Calcium	31.9	mg/L	1.0	1	01/25/22 13:29	01/26/22 13:57	7440-70-2	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:34	7440-38-2	
Boron	0.041	mg/L	0.040	1	01/27/22 09:56	01/28/22 18:34	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	01/27/22 09:56	01/28/22 18:34	7440-48-4	
Lithium	ND	mg/L	0.030	1	01/27/22 09:56	01/28/22 18:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	01/27/22 09:56	01/28/22 18:34	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	117	mg/L	10.0	1		01/31/22 19:10		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	2.1	mg/L	1.0	1		01/26/22 21:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/26/22 21:34	16984-48-8	
Sulfate	11.6	mg/L	1.0	1		01/26/22 21:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

QC Batch: 673704 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584178001, 92584178002, 92584178003

METHOD BLANK: 3526379 Matrix: Water
Associated Lab Samples: 92584178001, 92584178002, 92584178003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	01/25/22 20:59	
Magnesium	mg/L	ND	0.050	01/25/22 20:59	
Potassium	mg/L	ND	0.20	01/25/22 20:59	
Sodium	mg/L	ND	1.0	01/25/22 20:59	

LABORATORY CONTROL SAMPLE: 3526380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3526381 3526382

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584176001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	17.8	1	1	18.4	19.1	61	127	75-125	4	20
Magnesium	mg/L	5.0	1	1	6.0	6.2	94	114	75-125	3	20
Potassium	mg/L	1.7	1	1	2.7	2.8	105	114	75-125	3	20
Sodium	mg/L	4.3	1	1	5.3	5.5	100	123	75-125	4	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584178

QC Batch:	674075	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92584178001, 92584178002, 92584178003

METHOD BLANK: 3528272 Matrix: Water

Associated Lab Samples: 92584178001, 92584178002, 92584178003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	01/28/22 17:47	
Boron	mg/L	ND	0.040	01/28/22 17:47	
Cobalt	mg/L	ND	0.0050	01/28/22 17:47	
Lithium	mg/L	ND	0.030	01/28/22 17:47	
Molybdenum	mg/L	ND	0.010	01/28/22 17:47	

LABORATORY CONTROL SAMPLE: 3528273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.092	92	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3528285 3528286

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92584409012	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/L	1.8J ug/L	0.1	0.1	0.097	0.098	95	96	75-125	1	20
Boron	mg/L	ND	1	1	1.1	1.0	106	102	75-125	4	20
Cobalt	mg/L	2.0J ug/L	0.1	0.1	0.097	0.10	95	98	75-125	3	20
Lithium	mg/L	16.4J ug/L	0.1	0.1	0.13	0.13	112	110	75-125	2	20
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

QC Batch: 674961 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92584178001, 92584178002, 92584178003

METHOD BLANK: 3532863 Matrix: Water
Associated Lab Samples: 92584178001, 92584178002, 92584178003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	01/31/22 19:09	

LABORATORY CONTROL SAMPLE: 3532864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3532865

Parameter	Units	92583955011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	502	526	5	25	

SAMPLE DUPLICATE: 3532866

Parameter	Units	92583953014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	426	422	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92584178

QC Batch: 673904 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: 92584178001, 92584178002, 92584178003

METHOD BLANK: 3527216 Matrix: Water
Associated Lab Samples: 92584178001, 92584178002, 92584178003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/26/22 17:51	
Fluoride	mg/L	ND	0.10	01/26/22 17:51	
Sulfate	mg/L	ND	1.0	01/26/22 17:51	

LABORATORY CONTROL SAMPLE: 3527217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527218 3527219

Parameter	Units	92584141001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	18.4	50	50	69.0	69.2	101	102	90-110	0	10		
Fluoride	mg/L	0.41	2.5	2.5	2.9	2.9	100	100	90-110	1	10		
Sulfate	mg/L	14.2	50	50	64.1	64.1	100	100	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3527220 3527221

Parameter	Units	92584178003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	2.1	50	50	53.4	54.4	102	105	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	3	10		
Sulfate	mg/L	11.6	50	50	62.4	63.0	102	103	90-110	1	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584178

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92584178

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92584178001	AP2 Up	EPA 3010A	673704	EPA 6010D	673782
92584178002	AP2 Mid	EPA 3010A	673704	EPA 6010D	673782
92584178003	AP2 Down	EPA 3010A	673704	EPA 6010D	673782
92584178001	AP2 Up	EPA 3005A	674075	EPA 6020B	674297
92584178002	AP2 Mid	EPA 3005A	674075	EPA 6020B	674297
92584178003	AP2 Down	EPA 3005A	674075	EPA 6020B	674297
92584178001	AP2 Up	SM 2540C-2015	674961		
92584178002	AP2 Mid	SM 2540C-2015	674961		
92584178003	AP2 Down	SM 2540C-2015	674961		
92584178001	AP2 Up	EPA 300.0 Rev 2.1 1993	673904		
92584178002	AP2 Mid	EPA 300.0 Rev 2.1 1993	673904		
92584178003	AP2 Down	EPA 300.0 Rev 2.1 1993	673904		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcadis

Project #

WO# : 92584178

PM: MP

Due Date: 02/01/22

CLIENT: GA-ArcadAt1

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MP1/25/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 4.5 Correction Factor: Add/Subtract (°C) ±0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

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 type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
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: _____



Document Name:
Bottle Identification Form (BIF)
 Document No.:
F-CAR-CS-043-Rev.01

Document issued: November 15, 2021
 Page 1 of 1
 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.

Project #

WO# : 92584178

PM: MP

Due Date: 02/01/22

CLIENT: GA-ArcadAtI

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

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

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGfU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																											
2		3	1																											
3		2	1																											
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

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 ENVIRONMENTAL SERVICES, INC.

January 27, 2022

Maiya Parks
Pace Analytical Atlanta

110 Technology Pkwy
Peachtree Corners GA 30092

RE: 92584178

Dear Maiya Parks:

Order No: 2201R35

Analytical Environmental Services, Inc. received 3 samples on 1/26/2022 7:55:00 AM for the analyses presented in following report.

“No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES’s accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/21-06/30/22.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/23.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Paris Masoudi
Project Manager

Client: Pace Analytical Atlanta	Client Sample ID: AP2 UP
Project Name: 92584178	Collection Date: 1/24/2022 1:35:00 PM
Lab ID: 2201R35-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	75.8	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	75.8	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: AP2 MID
Project Name: 92584178	Collection Date: 1/24/2022 12:35:00 PM
Lab ID: 2201R35-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE SM4500-CO2-D								
Bicarbonate Alkalinity	75.5	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	75.5	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Pace Analytical Atlanta	Client Sample ID: AP2 DOWN
Project Name: 92584178	Collection Date: 1/24/2022 12:24:00 PM
Lab ID: 2201R35-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CARBON DIOXIDE								
SM4500-CO2-D								
Bicarbonate Alkalinity	76.4	10.0		mg/L	R475961	1	01/26/2022 14:55	GY
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	76.4	3.00		mg/L	R475961	1	01/26/2022 14:55	GY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



Pace Analytical Atlanta

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: Pace Analytical Atlanta AES Work Order Number: 2201R35

2. Carrier: FedEx UPS USPS Client Courier Other

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 3-12 regarding shipping conditions, temperature, and TAT.

13. Cooler 1 Temperature 3.4 °C Cooler 2 Temperature °C Cooler 3 Temperature °C Cooler 4 Temperature °C
14. Cooler 5 Temperature °C Cooler 6 Temperature °C Cooler 7 Temperature °C Cooler 8 Temperature °C

15. Comments: I certify that I have completed sections 1-15 (dated initials). HM 1/26/22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 16-26 regarding sample containers, COC, and analyses.

27. Comments: I certify that I have completed sections 16-27 (dated initials). HM 1/26/22

Table with 5 columns: Question, Yes, No, N/A, Details, Comments. Contains items 28-30 regarding chemical preservation and pH adjustment.

31. * Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.
32. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.
33. I certify that I have completed sections 28-30 (dated initials). HM 1/26/22

Client: Pace Analytical Atlanta
 Project Name: 92584178
 Workorder: 2201R35

ANALYTICAL QC SUMMARY REPORT

BatchID: R475961

Sample ID: LCS-R475961	Client ID:	Units: mg/L	Prep Date:	Run No: 475961							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R475961	Analysis Date: 01/26/2022	Seq No: 10983447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	124.4	3.00	125.0		99.5	90	110				
------------------------------	-------	------	-------	--	------	----	-----	--	--	--	--

Sample ID: 2201O31-006CDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 475961							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R475961	Analysis Date: 01/26/2022	Seq No: 10983453							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)	536.5	3.00						539.3	0.522	30	
------------------------------	-------	------	--	--	--	--	--	-------	-------	----	--

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

Plant Hammond AP-2 (Tributary) Surface Water Samples 01/24/2022

Sample ID	Time	Temp(C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
AP2 Up	13:35	13.05	8.35	-90.1	8.31	4.31	0.129	34.252514, -85.353819
AP2 Mid	12:35	13.30	7.47	-87.5	9.19	3.86	0.141	34.251308, 85.354189
AP2 Down	12:24	13.03	7.20	-58.7	10.11	3.8	0.141	34.249366, -85.354189

Plant Hammond (Coosa River) Surface Water Samples 01/24/2022

Sample ID	Time	Total Depth	Sample Depth	Temp(C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance – (mS/cm)	Coordinates
H-0.05 (Mid)	11:38	4.6	2.30	6.90	7.35	-88.5	11.68	18.1	0.144	34.249957, -85.337365
H+0.25 (Mid)	11:29	5.3	2.60	7.10	7.43	-87.0	11.67	12.6	0.150	34.249261, -85.350334
H+0.35 (Mid)	11:22	2.7	1.40	7.14	7.56	-91.5	12.08	13.0	0.150	34.249103, -85.351854
H+0.75 (Mid)	11:15	4.9	2.50	7.22	7.82	-113.7	13.54	15.8	0.152	34.248819, -85.356505

August 2022
(Surface Water Sampling)

August 12, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Dear Kelley Sharpe:


Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 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 - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618893

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618893

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618893001	H-0.05	Water	08/05/22 09:26	08/05/22 13:30
92618893002	H+0.25	Water	08/05/22 08:46	08/05/22 13:30
92618893003	H+0.35	Water	08/05/22 08:40	08/05/22 13:30
92618893004	H+0.75	Water	08/05/22 08:26	08/05/22 13:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618893001	H-0.05	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92618893002	H+0.25	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92618893003	H+0.35	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92618893004	H+0.75	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Sample: H-0.05		Lab ID: 92618893001		Collected: 08/05/22 09:26	Received: 08/05/22 13:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	1.8	mg/L	0.20	1	08/08/22 14:04	08/08/22 21:13	7440-09-7	
Sodium	4.3	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:13	7440-23-5	M1
Calcium	16.5	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:13	7440-70-2	M1
Magnesium	4.6	mg/L	0.050	1	08/08/22 14:04	08/08/22 21:13	7439-95-4	M1
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	0.10	mg/L	0.040	1	08/09/22 11:55	08/10/22 13:14	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 13:14	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	84.0	mg/L	10.0	1		08/09/22 10:27		
9040 pH		Analytical Method: EPA 9040C Pace Analytical Services - Peachtree Corners, GA						
pH at 25 Degrees C	7.7	Std. Units	0.10	1		08/12/22 14:51		H3,H6
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity,Bicarbonate (CaCO ₃)	52.4	mg/L	5.0	1		08/11/22 21:04		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1		08/11/22 21:04		
Alkalinity, Total as CaCO ₃	52.4	mg/L	5.0	1		08/11/22 21:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	7.4	mg/L	1.0	1		08/09/22 02:22	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/09/22 02:22	16984-48-8	
Sulfate	5.2	mg/L	1.0	1		08/09/22 02:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Sample: H+0.25		Lab ID: 92618893002		Collected: 08/05/22 08:46	Received: 08/05/22 13:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	1.8	mg/L	0.20	1	08/08/22 14:04	08/08/22 21:32	7440-09-7	
Sodium	5.9	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:32	7440-23-5	
Calcium	16.7	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:32	7440-70-2	
Magnesium	4.6	mg/L	0.050	1	08/08/22 14:04	08/08/22 21:32	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	0.12	mg/L	0.040	1	08/09/22 11:55	08/10/22 13:38	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 13:38	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	93.0	mg/L	10.0	1		08/09/22 10:27		
9040 pH		Analytical Method: EPA 9040C Pace Analytical Services - Peachtree Corners, GA						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		08/12/22 14:48		H3,H6
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity,Bicarbonate (CaCO ₃)	54.8	mg/L	5.0	1		08/11/22 21:10		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	5.0	1		08/11/22 21:10		
Alkalinity, Total as CaCO ₃	54.8	mg/L	5.0	1		08/11/22 21:10		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	8.0	mg/L	1.0	1		08/09/22 02:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/09/22 02:37	16984-48-8	
Sulfate	9.1	mg/L	1.0	1		08/09/22 02:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Sample: H+0.35		Lab ID: 92618893003		Collected: 08/05/22 08:40	Received: 08/05/22 13:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	1.9	mg/L	0.20	1	08/08/22 14:04	08/08/22 21:46	7440-09-7	
Sodium	6.6	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:46	7440-23-5	
Calcium	16.4	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:46	7440-70-2	
Magnesium	4.6	mg/L	0.050	1	08/08/22 14:04	08/08/22 21:46	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	0.11	mg/L	0.040	1	08/09/22 11:55	08/10/22 13:44	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 13:44	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	87.0	mg/L	10.0	1		08/09/22 10:27		
9040 pH		Analytical Method: EPA 9040C Pace Analytical Services - Peachtree Corners, GA						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		08/12/22 14:47		H3,H6
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity,Bicarbonate (CaCO3)	53.1	mg/L	5.0	1		08/11/22 15:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/11/22 15:56		
Alkalinity, Total as CaCO3	53.1	mg/L	5.0	1		08/11/22 15:56		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	8.0	mg/L	1.0	1		08/09/22 02:52	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/09/22 02:52	16984-48-8	
Sulfate	9.8	mg/L	1.0	1		08/09/22 02:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Sample: H+0.75	Lab ID: 92618893004	Collected: 08/05/22 08:26	Received: 08/05/22 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.9	mg/L	0.20	1	08/08/22 14:04	08/08/22 21:51	7440-09-7	
Sodium	7.4	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:51	7440-23-5	
Calcium	16.5	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:51	7440-70-2	
Magnesium	4.6	mg/L	0.050	1	08/08/22 14:04	08/08/22 21:51	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.10	mg/L	0.040	1	08/09/22 11:55	08/10/22 13:50	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 13:50	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	98.0	mg/L	10.0	1		08/09/22 10:27		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		08/12/22 14:35		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	52.4	mg/L	5.0	1		08/11/22 16:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/11/22 16:03		
Alkalinity, Total as CaCO3	52.4	mg/L	5.0	1		08/11/22 16:03		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	7.9	mg/L	1.0	1		08/09/22 03:07	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/09/22 03:07	16984-48-8	
Sulfate	11.1	mg/L	1.0	1		08/09/22 03:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

QC Batch: 715680 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

METHOD BLANK: 3730907 Matrix: Water
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	08/08/22 21:03	
Magnesium	mg/L	ND	0.050	08/08/22 21:03	
Potassium	mg/L	ND	0.20	08/08/22 21:03	
Sodium	mg/L	ND	1.0	08/08/22 21:03	

LABORATORY CONTROL SAMPLE: 3730908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	ND	100	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730909 3730910

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618893001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	16.5	1	1	18.4	17.9	184	134	75-125	3	20 M1
Magnesium	mg/L	4.6	1	1	5.9	5.7	127	110	75-125	3	20 M1
Potassium	mg/L	1.8	1	1	2.9	2.9	116	112	75-125	1	20
Sodium	mg/L	4.3	1	1	5.6	5.4	131	113	75-125	3	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

QC Batch: 715913 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

METHOD BLANK: 3732012 Matrix: Water
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	08/10/22 13:02	
Cobalt	mg/L	ND	0.0050	08/10/22 13:02	

LABORATORY CONTROL SAMPLE: 3732013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732014 3732015

Parameter	Units	92618893001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.10	1	1	1.2	1.1	108	104	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

QC Batch: 715874 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

METHOD BLANK: 3731839 Matrix: Water
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/09/22 10:22	

LABORATORY CONTROL SAMPLE: 3731840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	80-120	

SAMPLE DUPLICATE: 3731841

Parameter	Units	92618822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	47.0	2	25	

SAMPLE DUPLICATE: 3731990

Parameter	Units	92618829005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	341	9	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618893

QC Batch: 716902

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

SAMPLE DUPLICATE: 3737340

Parameter	Units	92618893004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	10	H3,H6

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

QC Batch: 716338 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92618893001, 92618893002

METHOD BLANK: 3734166 Matrix: Water
Associated Lab Samples: 92618893001, 92618893002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	08/11/22 17:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	08/11/22 17:33	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	08/11/22 17:33	

LABORATORY CONTROL SAMPLE: 3734167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.7	97	80-120	

LABORATORY CONTROL SAMPLE: 3734168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3734169 3734170

Parameter	Units	92618880001		3734170		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Alkalinity, Total as CaCO3	mg/L	178	50	50	237	232	120	109	80-120	2	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3734171 3734172

Parameter	Units	92618880011		3734172		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	12.6	13.3	25	27	80-120	6	25	M1	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

QC Batch: 716554 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92618893003, 92618893004

METHOD BLANK: 3735108 Matrix: Water
Associated Lab Samples: 92618893003, 92618893004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	08/11/22 15:15	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	08/11/22 15:15	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	08/11/22 15:15	

LABORATORY CONTROL SAMPLE: 3735109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	48.2	96	80-120	

LABORATORY CONTROL SAMPLE: 3735110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3735977 3735978

Parameter	Units	3735977		3735978		% Rec Limits	Max RPD	Qual			
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				MS % Rec	MSD % Rec	
Alkalinity, Total as CaCO ₃	mg/L	52.4	50	50	101	101	96	98	80-120	1	25

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

QC Batch: 715805 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: 92618893001, 92618893002, 92618893003, 92618893004

METHOD BLANK: 3731642 Matrix: Water
Associated Lab Samples: 92618893001, 92618893002, 92618893003, 92618893004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/08/22 22:53	
Fluoride	mg/L	ND	0.10	08/08/22 22:53	
Sulfate	mg/L	ND	1.0	08/08/22 22:53	

LABORATORY CONTROL SAMPLE: 3731643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.3	105	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	51.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3731644 3731645

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618573001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.5	50	50	56.2	56.2	105	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	3.1	3.2	124	128	90-110	3	10		
Sulfate	mg/L	ND	50	50	53.9	53.7	107	106	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3731646 3731647

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618893004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	7.9	50	50	60.7	60.6	106	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	97	97	90-110	0	10		
Sulfate	mg/L	11.1	50	50	64.1	63.9	106	106	90-110	0	10		

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618893

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618893

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618893001	H-0.05	EPA 3010A	715680	EPA 6010D	715758
92618893002	H+0.25	EPA 3010A	715680	EPA 6010D	715758
92618893003	H+0.35	EPA 3010A	715680	EPA 6010D	715758
92618893004	H+0.75	EPA 3010A	715680	EPA 6010D	715758
92618893001	H-0.05	EPA 3005A	715913	EPA 6020B	716019
92618893002	H+0.25	EPA 3005A	715913	EPA 6020B	716019
92618893003	H+0.35	EPA 3005A	715913	EPA 6020B	716019
92618893004	H+0.75	EPA 3005A	715913	EPA 6020B	716019
92618893001	H-0.05	SM 2540C-2015	715874		
92618893002	H+0.25	SM 2540C-2015	715874		
92618893003	H+0.35	SM 2540C-2015	715874		
92618893004	H+0.75	SM 2540C-2015	715874		
92618893001	H-0.05	EPA 9040C	716902		
92618893002	H+0.25	EPA 9040C	716902		
92618893003	H+0.35	EPA 9040C	716902		
92618893004	H+0.75	EPA 9040C	716902		
92618893001	H-0.05	SM 2320B-2011	716338		
92618893002	H+0.25	SM 2320B-2011	716338		
92618893003	H+0.35	SM 2320B-2011	716554		
92618893004	H+0.75	SM 2320B-2011	716554		
92618893001	H-0.05	EPA 300.0 Rev 2.1 1993	715805		
92618893002	H+0.25	EPA 300.0 Rev 2.1 1993	715805		
92618893003	H+0.35	EPA 300.0 Rev 2.1 1993	715805		
92618893004	H+0.75	EPA 300.0 Rev 2.1 1993	715805		

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CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

W0#: 92618893



92618893



Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: ARCADIS - Atlanta	Report To: Kristen Jurinko, Allison Keeler, Ben Hodges	Attention: Kristen Jurinko
Address: 2838 Paces Ferry Rd Atlanta, GA 30339	Copy To: Warren Johnson	Company Name: GPC
Email: warren.johnson@arcadis.com	Purchase Order #: SCS10382775	Address:
Phone: 678.485.5298	Fax:	Pace Quote:
Requested Due Date: 5 day TAT	Project Name: Plant Hammond - AP-2	Pace Project Manager: Mayra Parks@paceclabs.com.
	Project #:	Pace Profile #: 2239
		Requested Analysis Filtered (Y/N)
		State / Location GA
		Regulatory Agency

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives								Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)											
					START TIME	END TIME	DATE	TIME		H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol	Other	CCR Appendix III ¹									Major Ions ²	Cobalt									
1	H+0.05	WS	G	G	0916				3	2	1								X	X	X															
2	H+0.25	WS	G	G	0846				3	2	1								X	X	X															
3	H+0.35	WS	G	G	0840				3	2	1								X	X	X															
4	H+0.75	WS	G	G	0826				3	2	1								X	X	X															
5																																				
6																																				
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10																																				
11																																				

CCR Appendix III¹ - B, C, D, E, F, Sulfides, Total Dissolved Solids (TDS)

Major Ions² - Mg, Na, K, Total alkalinity, bicarbonate alkalinity

ADDITIONAL COMMENTS: *PP Arcadis*

RELINQUISHED BY / AFFILIATION: *PP Arcadis*

DATE: *8/5/12*

TIME: *1330*

ACCEPTED BY / AFFILIATION: *Quinn*

DATE: *8/5/12*

TIME: *1330*

SAMPLER NAME AND SIGNATURE: *Gregory Grabowski*

PRINT Name of SAMPLER: *Gregory Grabowski*

SIGNATURE of SAMPLER: *Gregory Grabowski*

DATE Signed: *8-5-12*



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:

Project #:

WO#: 92618893

PM: MP Due Date: 08/12/22
CLIENT: GA-ArcadAt1

Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 4.5 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 4.5

USDA Regulated Soil (N/A, water sample)

Date/Initials Person Examining Contents: MT 108.05

Biological Tissue Frozen? Yes No N/A

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

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 checked="" type="checkbox"/> Yes	<input 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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<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-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92618893

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

Project #

PM: MP

Due Date: 08/12/22

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

CLIENT: GA-ArcadAt1

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

***Check all unpreserved Nitrates for chlorine

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)	BP9R-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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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 #
H + 0.25	Nitric acid	3	8/15/22	1500	2.5 mL	062022-2617

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.

August 12, 2022

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 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 - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618895

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618895001	AP2 Up	Water	08/05/22 10:55	08/05/22 13:30
92618895002	AP2 Mid	Water	08/05/22 10:08	08/05/22 13:30
92618895003	AP2 Down	Water	08/05/22 09:55	08/05/22 13:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618895

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618895001	AP2 Up	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92618895002	AP2 Mid	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
92618895003	AP2 Down	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	BTS	1	PASI-GA
		EPA 9040C	BAO	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

Sample: AP2 Up	Lab ID: 92618895001	Collected: 08/05/22 10:55	Received: 08/05/22 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	0.50	mg/L	0.20	1	08/08/22 14:04	08/08/22 21:56	7440-09-7	
Sodium	1.9	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:56	7440-23-5	
Calcium	46.2	mg/L	1.0	1	08/08/22 14:04	08/08/22 21:56	7440-70-2	
Magnesium	5.0	mg/L	0.050	1	08/08/22 14:04	08/08/22 21:56	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	08/09/22 11:55	08/10/22 13:56	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 13:56	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	151	mg/L	10.0	1		08/09/22 10:31		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		08/12/22 15:08		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	123	mg/L	5.0	1		08/11/22 16:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/11/22 16:09		
Alkalinity, Total as CaCO3	123	mg/L	5.0	1		08/11/22 16:09		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	1.6	mg/L	1.0	1		08/09/22 03:51	16887-00-6	
Fluoride	0.11	mg/L	0.10	1		08/09/22 03:51	16984-48-8	
Sulfate	8.1	mg/L	1.0	1		08/09/22 03:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

Sample: AP2 Mid	Lab ID: 92618895002	Collected: 08/05/22 10:08	Received: 08/05/22 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	0.58	mg/L	0.20	1	08/08/22 14:04	08/08/22 22:01	7440-09-7	
Sodium	2.0	mg/L	1.0	1	08/08/22 14:04	08/08/22 22:01	7440-23-5	
Calcium	47.1	mg/L	1.0	1	08/08/22 14:04	08/08/22 22:01	7440-70-2	
Magnesium	5.2	mg/L	0.050	1	08/08/22 14:04	08/08/22 22:01	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.045	mg/L	0.040	1	08/09/22 11:55	08/10/22 14:26	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 14:26	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	154	mg/L	10.0	1		08/09/22 10:31		
9040 pH								
Analytical Method: EPA 9040C								
Pace Analytical Services - Peachtree Corners, GA								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		08/12/22 15:05		H3,H6
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	1		08/11/22 16:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/11/22 16:18		
Alkalinity, Total as CaCO3	125	mg/L	5.0	1		08/11/22 16:18		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	2.3	mg/L	1.0	1		08/09/22 04:06	16887-00-6	
Fluoride	0.11	mg/L	0.10	1		08/09/22 04:06	16984-48-8	
Sulfate	13.0	mg/L	1.0	1		08/09/22 04:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

Sample: AP2 Down		Lab ID: 92618895003		Collected: 08/05/22 09:55	Received: 08/05/22 13:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA						
Potassium	1.8	mg/L	0.20	1	08/08/22 14:04	08/08/22 22:05	7440-09-7	
Sodium	7.6	mg/L	1.0	1	08/08/22 14:04	08/08/22 22:05	7440-23-5	
Calcium	15.9	mg/L	1.0	1	08/08/22 14:04	08/08/22 22:05	7440-70-2	
Magnesium	4.4	mg/L	0.050	1	08/08/22 14:04	08/08/22 22:05	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA						
Boron	0.092	mg/L	0.040	1	08/09/22 11:55	08/10/22 14:32	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	08/09/22 11:55	08/10/22 14:32	7440-48-4	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA						
Total Dissolved Solids	90.0	mg/L	10.0	1		08/09/22 10:31		
9040 pH		Analytical Method: EPA 9040C Pace Analytical Services - Peachtree Corners, GA						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		08/12/22 15:04		H3,H6
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville						
Alkalinity,Bicarbonate (CaCO3)	51.3	mg/L	5.0	1		08/11/22 16:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		08/11/22 16:37		
Alkalinity, Total as CaCO3	51.3	mg/L	5.0	1		08/11/22 16:37		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville						
Chloride	7.5	mg/L	1.0	1		08/09/22 04:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/09/22 04:21	16984-48-8	
Sulfate	11.5	mg/L	1.0	1		08/09/22 04:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

QC Batch: 715680 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618895001, 92618895002, 92618895003

METHOD BLANK: 3730907 Matrix: Water
Associated Lab Samples: 92618895001, 92618895002, 92618895003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	08/08/22 21:03	
Magnesium	mg/L	ND	0.050	08/08/22 21:03	
Potassium	mg/L	ND	0.20	08/08/22 21:03	
Sodium	mg/L	ND	1.0	08/08/22 21:03	

LABORATORY CONTROL SAMPLE: 3730908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	ND	100	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730909 3730910

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618893001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	16.5	1	1	18.4	17.9	184	134	75-125	3	20 M1
Magnesium	mg/L	4.6	1	1	5.9	5.7	127	110	75-125	3	20 M1
Potassium	mg/L	1.8	1	1	2.9	2.9	116	112	75-125	1	20
Sodium	mg/L	4.3	1	1	5.6	5.4	131	113	75-125	3	20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

QC Batch: 715913 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618895001, 92618895002, 92618895003

METHOD BLANK: 3732012 Matrix: Water
Associated Lab Samples: 92618895001, 92618895002, 92618895003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	08/10/22 13:02	
Cobalt	mg/L	ND	0.0050	08/10/22 13:02	

LABORATORY CONTROL SAMPLE: 3732013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732014 3732015

Parameter	Units	92618893001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.10	1	1	1.2	1.1	108	104	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

QC Batch: 715874 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618895001, 92618895002, 92618895003

METHOD BLANK: 3731839 Matrix: Water
Associated Lab Samples: 92618895001, 92618895002, 92618895003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	08/09/22 10:22	

LABORATORY CONTROL SAMPLE: 3731840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	80-120	

SAMPLE DUPLICATE: 3731841

Parameter	Units	92618822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	47.0	2	25	

SAMPLE DUPLICATE: 3731990

Parameter	Units	92618829005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	341	9	25	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618895

QC Batch: 716902

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618895001, 92618895002, 92618895003

SAMPLE DUPLICATE: 3737340

Parameter	Units	92618893004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	10	H3,H6

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

QC Batch: 716554 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618895001, 92618895002, 92618895003

METHOD BLANK: 3735108 Matrix: Water
Associated Lab Samples: 92618895001, 92618895002, 92618895003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	08/11/22 15:15	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	08/11/22 15:15	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	08/11/22 15:15	

LABORATORY CONTROL SAMPLE: 3735109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	48.2	96	80-120	

LABORATORY CONTROL SAMPLE: 3735110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3735977 3735978

Parameter	Units	3735977		3735978		% Rec Limits	Max RPD	Qual			
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO ₃	mg/L	52.4	50	50	101	101	96	98	80-120	1	25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92618895

QC Batch: 715805 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: 92618895001, 92618895002, 92618895003

METHOD BLANK: 3731642 Matrix: Water
Associated Lab Samples: 92618895001, 92618895002, 92618895003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/08/22 22:53	
Fluoride	mg/L	ND	0.10	08/08/22 22:53	
Sulfate	mg/L	ND	1.0	08/08/22 22:53	

LABORATORY CONTROL SAMPLE: 3731643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.3	105	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	51.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3731644 3731645

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618573001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.5	50	50	56.2	56.2	105	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	3.1	3.2	124	128	90-110	3	10		
Sulfate	mg/L	ND	50	50	53.9	53.7	107	106	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3731646 3731647

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618893004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	7.9	50	50	60.7	60.6	106	105	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	97	97	90-110	0	10		
Sulfate	mg/L	11.1	50	50	64.1	63.9	106	106	90-110	0	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618895

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond

Pace Project No.: 92618895

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618895001	AP2 Up	EPA 3010A	715680	EPA 6010D	715758
92618895002	AP2 Mid	EPA 3010A	715680	EPA 6010D	715758
92618895003	AP2 Down	EPA 3010A	715680	EPA 6010D	715758
92618895001	AP2 Up	EPA 3005A	715913	EPA 6020B	716019
92618895002	AP2 Mid	EPA 3005A	715913	EPA 6020B	716019
92618895003	AP2 Down	EPA 3005A	715913	EPA 6020B	716019
92618895001	AP2 Up	SM 2540C-2015	715874		
92618895002	AP2 Mid	SM 2540C-2015	715874		
92618895003	AP2 Down	SM 2540C-2015	715874		
92618895001	AP2 Up	EPA 9040C	716902		
92618895002	AP2 Mid	EPA 9040C	716902		
92618895003	AP2 Down	EPA 9040C	716902		
92618895001	AP2 Up	SM 2320B-2011	716554		
92618895002	AP2 Mid	SM 2320B-2011	716554		
92618895003	AP2 Down	SM 2320B-2011	716554		
92618895001	AP2 Up	EPA 300.0 Rev 2.1 1993	715805		
92618895002	AP2 Mid	EPA 300.0 Rev 2.1 1993	715805		
92618895003	AP2 Down	EPA 300.0 Rev 2.1 1993	715805		

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:

Arcadis

Project #:

WO#: **92618895**

PM: MP

Due Date: 08/12/22

CLIENT: GA-ArcadAt1

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

Thermometer:

IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 4.5 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 4.5

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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>WT</u>	
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-HUN1-0083 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#: 92618895

PM: MP

Due Date: 08/12/22

CLIENT: GA-ArcadAtI

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-)	WGFW-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)	DG94-250 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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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 (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

January/February 2022

March 23, 2022

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

RE: Project: HAMMOND AP-2
Pace Project No.: 92587322

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 03, 2022 and February 11, 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 - Peachtree Corners, GA

Revision 1: This revision was issued on 3/23/22 to include updated COCs.

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: Anna Bottum, ERM
Andrea Brazell, ERM
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants

Ms. Lauren Petty, Southern Company
Lacy Smith, ERM
Anthony Szwest, Geosyntec
Nardos Tilahun, GeoSyntec
Caitlin Tillema, ERM
Christine Weaver, ERM
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND AP-2

Pace Project No.: 92587322

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587322001	HGWA-4	Water	02/07/22 14:28	02/09/22 12:40
92587322002	HGWA-5	Water	02/07/22 16:51	02/09/22 12:40
92587322003	HGWA-6	Water	02/07/22 16:31	02/09/22 12:40
92587322004	HGWA-42D	Water	02/07/22 15:57	02/09/22 12:40
92587322005	HGWC-15	Water	02/08/22 13:49	02/09/22 12:40
92587322006	HGWC-16	Water	02/08/22 12:09	02/09/22 12:40
92587322007	HGWC-17	Water	02/08/22 10:33	02/09/22 12:40
92587322008	HGWC-18	Water	02/08/22 15:40	02/09/22 12:40
92587322009	MW-21D	Water	02/08/22 14:30	02/09/22 12:40
92587322010	MW-22	Water	02/08/22 16:59	02/09/22 12:40
92587322011	MW-33	Water	02/08/22 16:35	02/09/22 12:40
92587322012	MW-35	Water	02/08/22 12:39	02/09/22 12:40
92587322013	MW-37D	Water	02/08/22 12:14	02/09/22 12:40
92587322014	MW-51	Water	02/08/22 14:10	02/09/22 12:40
92587322015	DUP-2	Water	02/08/22 00:00	02/09/22 12:40
92587322017	HGWA-44D	Water	02/01/22 13:35	02/03/22 12:32
92587322018	HGWA-2	Water	02/01/22 11:52	02/03/22 12:32
92587322019	HGWA-3	Water	02/01/22 09:58	02/03/22 12:32
92587322020	HGWA-1	Water	02/01/22 12:13	02/03/22 12:32
92587322021	HGWA-43D	Water	02/01/22 10:28	02/03/22 12:32
92587322022	HGWC-14	Water	02/09/22 15:23	02/11/22 11:35
92587322023	MW-34D	Water	02/09/22 13:50	02/11/22 11:35
92587322024	MW-23D	Water	02/10/22 09:49	02/11/22 11:35
92587322025	EB-2	Water	02/10/22 10:25	02/11/22 11:35
92587322026	FB-2	Water	02/10/22 10:30	02/11/22 11:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587322001	HGWA-4	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322002	HGWA-5	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322003	HGWA-6	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322004	HGWA-42D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322005	HGWC-15	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322006	HGWC-16	EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322007	HGWC-17	EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322008	HGWC-18	EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2
Pace Project No.: 92587322

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587322009	MW-21D	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322010	MW-22	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
92587322011	MW-33	EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
92587322012	MW-35	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587322013	MW-37D	EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
92587322014	MW-51	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322015	DUP-2	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2
Pace Project No.: 92587322

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587322017	HGWA-44D	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322018	HGWA-2	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322019	HGWA-3	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322020	HGWA-1	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322021	HGWA-43D	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322022	HGWC-14	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322023	MW-34D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587322024	MW-23D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587322025	EB-2	EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587322026	FB-2	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322001	HGWA-4					
	Performed by	CUSTOMER			02/09/22 17:31	
	pH	5.24	Std. Units		02/09/22 17:31	
EPA 6010D	Calcium	5.9	mg/L	1.0	02/25/22 16:56	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/25/22 16:31	
EPA 6020B	Beryllium	0.00017J	mg/L	0.00050	02/25/22 16:31	
EPA 6020B	Boron	0.017J	mg/L	0.040	02/25/22 16:31	
EPA 6020B	Cobalt	0.00068J	mg/L	0.0050	02/25/22 16:31	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	02/25/22 16:31	
SM 2540C-2015	Total Dissolved Solids	54.0	mg/L	10.0	02/11/22 11:41	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/16/22 09:30	
EPA 300.0 Rev 2.1 1993	Sulfate	2.9	mg/L	1.0	02/16/22 09:30	
92587322002	HGWA-5					
	Performed by	CUSTOMER			02/09/22 17:31	
	pH	6.51	Std. Units		02/09/22 17:31	
EPA 6010D	Calcium	30.0	mg/L	1.0	02/25/22 17:01	
EPA 6020B	Barium	0.038	mg/L	0.0050	02/25/22 16:37	
EPA 6020B	Cobalt	0.00055J	mg/L	0.0050	02/25/22 16:37	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/25/22 16:37	
SM 2540C-2015	Total Dissolved Solids	135	mg/L	10.0	02/11/22 11:41	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	02/16/22 09:45	
EPA 300.0 Rev 2.1 1993	Sulfate	20.6	mg/L	1.0	02/16/22 09:45	
92587322003	HGWA-6					
	Performed by	CUSTOMER			02/09/22 17:31	
	pH	7.65	Std. Units		02/09/22 17:31	
EPA 6010D	Calcium	53.4	mg/L	1.0	02/25/22 18:53	M1
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	02/25/22 17:01	
EPA 6020B	Barium	0.18	mg/L	0.0050	02/25/22 17:01	
EPA 6020B	Boron	0.019J	mg/L	0.040	02/25/22 17:01	
EPA 6020B	Lithium	0.0097J	mg/L	0.030	02/25/22 17:01	
SM 2540C-2015	Total Dissolved Solids	224	mg/L	10.0	02/11/22 11:41	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 10:00	
EPA 300.0 Rev 2.1 1993	Sulfate	33.0	mg/L	1.0	02/16/22 10:00	
92587322004	HGWA-42D					
	Performed by	CUSTOMER			02/09/22 17:32	
	pH	7.85	Std. Units		02/09/22 17:32	
EPA 6010D	Calcium	48.7	mg/L	1.0	02/25/22 17:06	
EPA 6020B	Barium	0.18	mg/L	0.0050	02/25/22 17:07	
EPA 6020B	Boron	0.047	mg/L	0.040	02/25/22 17:07	
EPA 6020B	Lithium	0.0097J	mg/L	0.030	02/25/22 17:07	
EPA 6020B	Molybdenum	0.00099J	mg/L	0.010	02/25/22 17:07	
SM 2540C-2015	Total Dissolved Solids	190	mg/L	10.0	02/11/22 11:41	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	02/16/22 10:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	02/16/22 10:15	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322004	HGWA-42D					
EPA 300.0 Rev 2.1 1993	Sulfate	10.4	mg/L	1.0	02/16/22 10:15	
92587322005	HGWC-15					
	Performed by	CUSTOME			02/09/22 17:33	
		R				
	pH	6.04	Std. Units		02/09/22 17:33	
EPA 6010D	Calcium	186	mg/L	1.0	02/28/22 20:54	
EPA 6020B	Antimony	0.0020J	mg/L	0.0030	02/25/22 17:13	
EPA 6020B	Barium	0.0098	mg/L	0.0050	02/25/22 17:13	
EPA 6020B	Boron	1.9	mg/L	0.040	02/25/22 17:13	
EPA 6020B	Cadmium	0.0011	mg/L	0.00050	02/25/22 17:13	
EPA 6020B	Cobalt	0.0081	mg/L	0.0050	02/25/22 17:13	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/25/22 17:13	
SM 2540C-2015	Total Dissolved Solids	866	mg/L	20.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	76.6	mg/L	1.0	02/16/22 10:30	
EPA 300.0 Rev 2.1 1993	Sulfate	360	mg/L	7.0	02/16/22 15:00	
92587322006	HGWC-16					
	Performed by	CUSTOME			02/09/22 17:33	
		R				
	pH	7.18	Std. Units		02/09/22 17:33	
EPA 6010D	Calcium	218	mg/L	1.0	02/28/22 21:08	
EPA 6020B	Barium	0.10	mg/L	0.0050	02/25/22 18:37	
EPA 6020B	Boron	2.6	mg/L	0.40	02/28/22 18:38	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	02/25/22 18:37	
SM 2540C-2015	Total Dissolved Solids	852	mg/L	20.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	96.4	mg/L	1.0	02/16/22 11:15	
EPA 300.0 Rev 2.1 1993	Sulfate	238	mg/L	5.0	02/16/22 15:15	
92587322007	HGWC-17					
	Performed by	CUSTOME			02/09/22 17:33	
		R				
	pH	6.42	Std. Units		02/09/22 17:33	
EPA 6010D	Calcium	280	mg/L	1.0	02/28/22 21:13	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/25/22 18:44	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/25/22 18:44	
EPA 6020B	Boron	7.8	mg/L	0.40	02/28/22 18:44	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	02/25/22 18:44	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/25/22 18:44	
SM 2540C-2015	Total Dissolved Solids	1160	mg/L	20.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	117	mg/L	8.0	02/16/22 15:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/16/22 11:30	
EPA 300.0 Rev 2.1 1993	Sulfate	364	mg/L	8.0	02/16/22 15:30	M1
92587322008	HGWC-18					
	Performed by	CUSTOME			02/09/22 17:34	
		R				
	pH	4.59	Std. Units		02/09/22 17:34	
EPA 6010D	Calcium	418	mg/L	10.0	02/28/22 21:18	
EPA 6020B	Arsenic	0.0050J	mg/L	0.0050	02/25/22 18:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322008	HGWC-18					
EPA 6020B	Barium	0.020	mg/L	0.0050	02/25/22 18:50	
EPA 6020B	Beryllium	0.0026	mg/L	0.0025	02/28/22 18:50	
EPA 6020B	Boron	8.1	mg/L	0.20	02/28/22 18:50	
EPA 6020B	Cadmium	0.00076	mg/L	0.00050	02/25/22 18:50	
EPA 6020B	Cobalt	0.16	mg/L	0.0050	02/25/22 18:50	
EPA 6020B	Lead	0.00090J	mg/L	0.0010	02/25/22 18:50	
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/25/22 18:50	
EPA 6020B	Selenium	0.0082	mg/L	0.0050	02/25/22 18:50	
SM 2540C-2015	Total Dissolved Solids	1770	mg/L	50.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	105	mg/L	19.0	02/16/22 16:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/16/22 12:15	
EPA 300.0 Rev 2.1 1993	Sulfate	960	mg/L	19.0	02/16/22 16:14	
92587322009	MW-21D					
	Performed by	CUSTOME			02/09/22 17:34	
		R				
	pH	7.09	Std. Units		02/09/22 17:34	
EPA 6010D	Calcium	366	mg/L	10.0	02/28/22 21:23	
EPA 6020B	Barium	0.033	mg/L	0.0050	02/25/22 18:56	
EPA 6020B	Boron	5.9	mg/L	0.40	02/28/22 18:56	
EPA 6020B	Lithium	0.022J	mg/L	0.030	02/25/22 18:56	
EPA 6020B	Molybdenum	0.016	mg/L	0.010	02/25/22 18:56	
SM 2540C-2015	Total Dissolved Solids	1810	mg/L	100	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	196	mg/L	16.0	02/16/22 20:00	
EPA 300.0 Rev 2.1 1993	Sulfate	779	mg/L	16.0	02/16/22 20:00	
92587322010	MW-22					
	Performed by	CUSTOME			02/09/22 17:34	
		R				
	pH	5.37	Std. Units		02/09/22 17:34	
EPA 6010D	Calcium	221	mg/L	1.0	02/28/22 21:27	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/25/22 19:02	
EPA 6020B	Beryllium	0.000079J	mg/L	0.00050	02/25/22 19:02	
EPA 6020B	Boron	3.2	mg/L	0.40	02/28/22 19:29	
EPA 6020B	Cadmium	0.0020	mg/L	0.00050	02/25/22 19:02	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	02/25/22 19:02	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/25/22 19:02	
SM 2540C-2015	Total Dissolved Solids	1070	mg/L	20.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	110	mg/L	9.0	02/16/22 18:46	
EPA 300.0 Rev 2.1 1993	Sulfate	449	mg/L	9.0	02/16/22 18:46	
92587322011	MW-33					
	Performed by	CUSTOME			02/09/22 17:34	
		R				
	pH	4.42	Std. Units		02/09/22 17:34	
EPA 6010D	Calcium	548	mg/L	10.0	03/02/22 15:05	
EPA 6020B	Arsenic	0.0069	mg/L	0.0050	02/25/22 19:08	
EPA 6020B	Barium	0.020	mg/L	0.0050	02/25/22 19:08	
EPA 6020B	Beryllium	0.00087J	mg/L	0.0025	02/28/22 19:35	D3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322011	MW-33					
EPA 6020B	Boron	8.4	mg/L	0.20	02/28/22 19:35	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	02/25/22 19:08	
EPA 6020B	Cobalt	0.048	mg/L	0.0050	02/25/22 19:08	
EPA 6020B	Lead	0.0014	mg/L	0.0010	02/25/22 19:08	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/25/22 19:08	
EPA 6020B	Selenium	0.0078	mg/L	0.0050	02/25/22 19:08	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	02/25/22 19:08	
SM 2540C-2015	Total Dissolved Solids	2480	mg/L	100	02/15/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	166	mg/L	24.0	02/16/22 19:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/16/22 13:00	
EPA 300.0 Rev 2.1 1993	Sulfate	1220	mg/L	24.0	02/16/22 19:01	
92587322012	MW-35					
	Performed by	CUSTOMER			02/09/22 17:35	
	pH	4.86	Std. Units		02/09/22 17:35	
EPA 6010D	Calcium	519	mg/L	10.0	03/02/22 15:20	
EPA 6020B	Antimony	0.0029J	mg/L	0.0030	02/25/22 19:14	
EPA 6020B	Arsenic	0.0072	mg/L	0.0050	02/25/22 19:14	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/25/22 19:14	
EPA 6020B	Beryllium	0.00070J	mg/L	0.0025	02/28/22 19:41	D3
EPA 6020B	Boron	10.8	mg/L	0.20	02/28/22 19:41	
EPA 6020B	Cadmium	0.0015	mg/L	0.00050	02/25/22 19:14	
EPA 6020B	Cobalt	0.090	mg/L	0.0050	02/25/22 19:14	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/25/22 19:14	
EPA 6020B	Selenium	0.0083	mg/L	0.0050	02/25/22 19:14	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	02/25/22 13:15	
SM 2540C-2015	Total Dissolved Solids	2410	mg/L	100	02/15/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	202	mg/L	23.0	02/16/22 19:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	02/16/22 13:15	
EPA 300.0 Rev 2.1 1993	Sulfate	1190	mg/L	23.0	02/16/22 19:16	
92587322013	MW-37D					
	Performed by	CUSTOMER			02/09/22 17:35	
	pH	7.63	Std. Units		02/09/22 17:35	
EPA 6010D	Calcium	167	mg/L	1.0	03/01/22 00:54	M1
EPA 6020B	Barium	0.11	mg/L	0.0050	02/25/22 20:49	
EPA 6020B	Boron	0.14	mg/L	0.040	02/28/22 16:55	
EPA 6020B	Lithium	0.029J	mg/L	0.030	02/28/22 16:55	
EPA 6020B	Molybdenum	0.0070J	mg/L	0.010	02/25/22 20:49	
SM 2540C-2015	Total Dissolved Solids	882	mg/L	20.0	02/15/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	151	mg/L	5.0	02/16/22 19:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/16/22 13:30	
EPA 300.0 Rev 2.1 1993	Sulfate	248	mg/L	5.0	02/16/22 19:30	
92587322014	MW-51					
	Performed by	CUSTOMER			02/09/22 17:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322014	MW-51					
	pH	6.57	Std. Units		02/09/22 17:35	
EPA 6010D	Calcium	537	mg/L	10.0	03/02/22 15:25	
EPA 6020B	Arsenic	0.0046J	mg/L	0.0050	02/25/22 20:55	
EPA 6020B	Barium	0.046	mg/L	0.0050	02/25/22 20:55	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	02/25/22 20:55	
EPA 6020B	Boron	10.5	mg/L	2.0	02/28/22 17:01	M1
EPA 6020B	Cadmium	0.00024J	mg/L	0.00050	02/25/22 20:55	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	02/25/22 20:55	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/25/22 20:55	
SM 2540C-2015	Total Dissolved Solids	2430	mg/L	100	02/15/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	194	mg/L	15.0	02/19/22 17:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	02/18/22 23:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1150	mg/L	15.0	02/19/22 17:18	
92587322015	DUP-2					
EPA 6010D	Calcium	188	mg/L	1.0	03/01/22 01:18	
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	02/25/22 21:19	
EPA 6020B	Barium	0.013	mg/L	0.0050	02/25/22 21:19	
EPA 6020B	Boron	2.0	mg/L	0.40	02/28/22 17:18	
EPA 6020B	Cadmium	0.0013	mg/L	0.00050	02/25/22 21:19	
EPA 6020B	Cobalt	0.013	mg/L	0.0050	02/25/22 21:19	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/25/22 21:19	
SM 2540C-2015	Total Dissolved Solids	894	mg/L	20.0	02/15/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	74.7	mg/L	1.0	02/16/22 14:15	
EPA 300.0 Rev 2.1 1993	Sulfate	361	mg/L	7.0	02/16/22 19:45	
92587322017	HGWA-44D					
	Performed by	CUSTOMER			02/09/22 17:36	
	pH	8.25	Std. Units		02/09/22 17:36	
EPA 6010D	Calcium	24.8	mg/L	1.0	02/17/22 16:48	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/18/22 17:43	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/18/22 17:43	
EPA 6020B	Barium	0.23	mg/L	0.0050	02/18/22 17:43	
EPA 6020B	Boron	0.44	mg/L	0.040	02/18/22 17:43	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/18/22 17:43	
EPA 6020B	Lithium	0.048	mg/L	0.030	02/18/22 17:43	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	02/18/22 17:43	
SM 2540C-2015	Total Dissolved Solids	444	mg/L	10.0	02/07/22 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	44.8	mg/L	1.0	02/08/22 12:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.96	mg/L	0.10	02/08/22 12:23	
EPA 300.0 Rev 2.1 1993	Sulfate	56.3	mg/L	1.0	02/08/22 12:23	
92587322018	HGWA-2					
	Performed by	CUSTOMER			02/09/22 17:36	
	pH	5.24	Std. Units		02/09/22 17:36	
EPA 6010D	Calcium	27.2	mg/L	1.0	02/17/22 16:53	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	02/18/22 17:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322018	HGWA-2					
EPA 6020B	Barium	0.13	mg/L	0.0050	02/18/22 17:49	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	02/18/22 17:49	
EPA 6020B	Boron	0.056	mg/L	0.040	02/18/22 17:49	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	02/18/22 17:49	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	02/18/22 17:49	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	02/18/22 17:49	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/07/22 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/08/22 13:36	
EPA 300.0 Rev 2.1 1993	Sulfate	67.1	mg/L	1.0	02/08/22 13:36	
92587322019	HGWA-3					
	Performed by	CUSTOMER			02/09/22 17:36	
	pH	7.45	Std. Units		02/09/22 17:36	
EPA 6010D	Calcium	85.1	mg/L	1.0	02/17/22 16:58	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/18/22 17:55	
EPA 6020B	Barium	0.12	mg/L	0.0050	02/18/22 17:55	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/18/22 17:55	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/18/22 17:55	
SM 2540C-2015	Total Dissolved Solids	350	mg/L	10.0	02/07/22 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/08/22 13:50	
EPA 300.0 Rev 2.1 1993	Sulfate	46.0	mg/L	1.0	02/08/22 13:50	
92587322020	HGWA-1					
	Performed by	CUSTOMER			02/09/22 17:36	
	pH	7.19	Std. Units		02/09/22 17:36	
EPA 6010D	Calcium	106	mg/L	1.0	02/17/22 17:02	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/18/22 18:01	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/18/22 18:01	
EPA 6020B	Boron	0.016J	mg/L	0.040	02/18/22 18:01	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/18/22 18:01	
SM 2540C-2015	Total Dissolved Solids	270	mg/L	10.0	02/07/22 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/08/22 14:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/08/22 14:03	
EPA 300.0 Rev 2.1 1993	Sulfate	43.7	mg/L	1.0	02/08/22 14:03	
92587322021	HGWA-43D					
	Performed by	CUSTOMER			02/09/22 17:37	
	pH	7.52	Std. Units		02/09/22 17:37	
EPA 6010D	Calcium	55.9	mg/L	1.0	02/17/22 17:07	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/18/22 18:07	
EPA 6020B	Barium	0.29	mg/L	0.0050	02/18/22 18:07	
EPA 6020B	Boron	0.050	mg/L	0.040	02/18/22 18:07	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	02/18/22 18:07	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	02/18/22 18:07	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/07/22 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/08/22 14:17	

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587322021	HGWA-43D					
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/08/22 14:17	
EPA 300.0 Rev 2.1 1993	Sulfate	37.5	mg/L	1.0	02/08/22 14:17	
92587322022	HGWC-14					
	Performed by	CUSTOMER			02/11/22 15:57	
	pH	4.97	Std. Units		02/11/22 15:57	
EPA 6010D	Calcium	571	mg/L	10.0	03/02/22 15:30	
EPA 6020B	Arsenic	0.0077	mg/L	0.0050	02/25/22 22:37	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/25/22 22:37	
EPA 6020B	Beryllium	0.00056	mg/L	0.00050	02/25/22 22:37	
EPA 6020B	Boron	9.9	mg/L	2.0	02/28/22 18:20	
EPA 6020B	Cobalt	0.038	mg/L	0.0050	02/25/22 22:37	
EPA 6020B	Lead	0.0014	mg/L	0.0010	02/25/22 22:37	
EPA 6020B	Selenium	0.0047J	mg/L	0.0050	02/25/22 22:37	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	02/25/22 22:37	
SM 2540C-2015	Total Dissolved Solids	2310	mg/L	100	02/16/22 13:54	
EPA 300.0 Rev 2.1 1993	Chloride	174	mg/L	24.0	02/18/22 00:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/17/22 13:11	
EPA 300.0 Rev 2.1 1993	Sulfate	1190	mg/L	24.0	02/18/22 00:24	
92587322023	MW-34D					
	Performed by	CUSTOMER			02/11/22 15:57	
	pH	7.21	Std. Units		02/11/22 15:57	
EPA 6010D	Calcium	557	mg/L	10.0	03/02/22 15:35	
EPA 6020B	Arsenic	0.0054	mg/L	0.0050	02/25/22 22:43	
EPA 6020B	Barium	0.040	mg/L	0.0050	02/25/22 22:43	
EPA 6020B	Beryllium	0.000065J	mg/L	0.00050	02/25/22 22:43	
EPA 6020B	Boron	9.6	mg/L	2.0	02/28/22 18:26	
EPA 6020B	Cadmium	0.00072	mg/L	0.00050	02/25/22 22:43	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	02/25/22 22:43	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/25/22 22:43	
SM 2540C-2015	Total Dissolved Solids	2260	mg/L	100	02/16/22 13:54	
EPA 300.0 Rev 2.1 1993	Chloride	251	mg/L	21.0	02/18/22 00:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	02/17/22 13:26	
EPA 300.0 Rev 2.1 1993	Sulfate	1050	mg/L	21.0	02/18/22 00:38	
92587322024	MW-23D					
	Performed by	CUSTOMER			02/11/22 15:57	
	pH	6.87	Std. Units		02/11/22 15:57	
EPA 6010D	Calcium	288	mg/L	10.0	03/02/22 15:39	
EPA 6020B	Barium	0.050	mg/L	0.0050	02/25/22 23:01	
EPA 6020B	Boron	3.2	mg/L	0.40	02/28/22 18:32	
EPA 6020B	Cadmium	0.00024J	mg/L	0.00050	02/25/22 23:01	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	02/25/22 23:01	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/25/22 23:01	
EPA 6020B	Molybdenum	0.0034J	mg/L	0.010	02/25/22 23:01	

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SUMMARY OF DETECTION

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587322024	MW-23D					
SM 2540C-2015	Total Dissolved Solids	1260	mg/L	50.0	02/16/22 14:18	
EPA 300.0 Rev 2.1 1993	Chloride	138	mg/L	9.0	02/18/22 00:53	
EPA 300.0 Rev 2.1 1993	Sulfate	430	mg/L	9.0	02/18/22 00:53	
92587322025	EB-2					
EPA 6020B	Barium	0.0024J	mg/L	0.0050	02/25/22 23:07	
EPA 6020B	Boron	0.020J	mg/L	0.040	02/25/22 23:07	
92587322026	FB-2					
EPA 6020B	Barium	0.0025J	mg/L	0.0050	02/25/22 23:13	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/25/22 23:13	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2

Pace Project No.: 92587322

Sample: HGWA-4 **Lab ID: 92587322001** Collected: 02/07/22 14:28 Received: 02/09/22 12:40 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		02/09/22 17:31		
pH	5.24	Std. Units			1		02/09/22 17:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.9	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 16:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 16:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 16:31	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 16:31	7440-39-3	
Beryllium	0.00017J	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 16:31	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 16:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 16:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 16:31	7440-47-3	
Cobalt	0.00068J	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 16:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 16:31	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 16:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 16:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 16:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 16:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	54.0	mg/L	10.0	10.0	1		02/11/22 11:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		02/16/22 09:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 09:30	16984-48-8	
Sulfate	2.9	mg/L	1.0	0.50	1		02/16/22 09:30	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-5		Lab ID: 92587322002		Collected: 02/07/22 16:51		Received: 02/09/22 12:40		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		02/09/22 17:31		
pH	6.51	Std. Units			1		02/09/22 17:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.0	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 17:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 16:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 16:37	7440-38-2	
Barium	0.038	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 16:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 16:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 16:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 16:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 16:37	7440-47-3	
Cobalt	0.00055J	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 16:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 16:37	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 16:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 16:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 16:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 16:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	135	mg/L	10.0	10.0	1		02/11/22 11:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.4	mg/L	1.0	0.60	1		02/16/22 09:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 09:45	16984-48-8	
Sulfate	20.6	mg/L	1.0	0.50	1		02/16/22 09:45	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-6		Lab ID: 92587322003		Collected: 02/07/22 16:31		Received: 02/09/22 12:40		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		02/09/22 17:31		
pH	7.65	Std. Units			1		02/09/22 17:31		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	53.4	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:53	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 17:01	7440-38-2	
Barium	0.18	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 17:01	7440-41-7	
Boron	0.019J	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 17:01	7439-92-1	
Lithium	0.0097J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 17:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 17:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 17:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	224	mg/L	10.0	10.0	1		02/11/22 11:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 10:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 10:00	16984-48-8	
Sulfate	33.0	mg/L	1.0	0.50	1		02/16/22 10:00	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-42D		Lab ID: 92587322004		Collected: 02/07/22 15:57		Received: 02/09/22 12:40		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		02/09/22 17:32		
pH	7.85	Std. Units			1		02/09/22 17:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	48.7	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 17:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 17:07	7440-38-2	
Barium	0.18	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 17:07	7440-41-7	
Boron	0.047	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 17:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 17:07	7439-92-1	
Lithium	0.0097J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 17:07	7439-93-2	
Molybdenum	0.00099J	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 17:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 17:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	190	mg/L	10.0	10.0	1		02/11/22 11:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.1	mg/L	1.0	0.60	1		02/16/22 10:15	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		02/16/22 10:15	16984-48-8	
Sulfate	10.4	mg/L	1.0	0.50	1		02/16/22 10:15	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWC-15		Lab ID: 92587322005		Collected: 02/08/22 13:49		Received: 02/09/22 12:40		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		02/09/22 17:33		
pH	6.04	Std. Units			1		02/09/22 17:33		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	186	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 20:54	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0020J	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 17:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 17:13	7440-38-2	
Barium	0.0098	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 17:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 17:13	7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 17:13	7440-42-8	
Cadmium	0.0011	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 17:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 17:13	7440-47-3	
Cobalt	0.0081	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 17:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 17:13	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 17:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 17:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 17:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	866	mg/L	20.0	20.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	76.6	mg/L	1.0	0.60	1		02/16/22 10:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 10:30	16984-48-8	
Sulfate	360	mg/L	7.0	3.5	7		02/16/22 15:00	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWC-16		Lab ID: 92587322006		Collected: 02/08/22 12:09		Received: 02/09/22 12:40		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		02/09/22 17:33		
pH	7.18	Std. Units			1		02/09/22 17:33		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	218	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 18:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:37	7440-38-2	
Barium	0.10	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 18:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 18:37	7440-41-7	
Boron	2.6	mg/L	0.40	0.086	10	02/25/22 07:37	02/28/22 18:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 18:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 18:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 18:37	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 18:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 18:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 18:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	852	mg/L	20.0	20.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	96.4	mg/L	1.0	0.60	1		02/16/22 11:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 11:15	16984-48-8	
Sulfate	238	mg/L	5.0	2.5	5		02/16/22 15:15	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWC-17 Lab ID: 92587322007 Collected: 02/08/22 10:33 Received: 02/09/22 12:40 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		02/09/22 17:33		
pH	6.42	Std. Units			1		02/09/22 17:33		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	280	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 18:44	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:44	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 18:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 18:44	7440-41-7	
Boron	7.8	mg/L	0.40	0.086	10	02/25/22 07:37	02/28/22 18:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 18:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:44	7440-47-3	
Cobalt	0.0066	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 18:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 18:44	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 18:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 18:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 18:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1160	mg/L	20.0	20.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	117	mg/L	8.0	4.8	8		02/16/22 15:30	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/16/22 11:30	16984-48-8	
Sulfate	364	mg/L	8.0	4.0	8		02/16/22 15:30	14808-79-8	M1

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWC-18		Lab ID: 92587322008		Collected: 02/08/22 15:40		Received: 02/09/22 12:40		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		02/09/22 17:34		
pH	4.59	Std. Units			1		02/09/22 17:34		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	418	mg/L	10.0	1.2	10	02/25/22 07:39	02/28/22 21:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 18:50	7440-36-0	
Arsenic	0.0050J	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:50	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 18:50	7440-39-3	
Beryllium	0.0026	mg/L	0.0025	0.00027	5	02/25/22 07:37	02/28/22 18:50	7440-41-7	
Boron	8.1	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 18:50	7440-42-8	
Cadmium	0.00076	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 18:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:50	7440-47-3	
Cobalt	0.16	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 18:50	7440-48-4	
Lead	0.00090J	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 18:50	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 18:50	7439-98-7	
Selenium	0.0082	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 18:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1770	mg/L	50.0	50.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	105	mg/L	19.0	11.4	19		02/16/22 16:14	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.050	1		02/16/22 12:15	16984-48-8	
Sulfate	960	mg/L	19.0	9.5	19		02/16/22 16:14	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: MW-21D		Lab ID: 92587322009		Collected: 02/08/22 14:30		Received: 02/09/22 12:40		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		02/09/22 17:34		
pH	7.09	Std. Units			1		02/09/22 17:34		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	366	mg/L	10.0	1.2	10	02/25/22 07:39	02/28/22 21:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 18:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:56	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 18:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 18:56	7440-41-7	
Boron	5.9	mg/L	0.40	0.086	10	02/25/22 07:37	02/28/22 18:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 18:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 18:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 18:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 18:56	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 18:56	7439-93-2	
Molybdenum	0.016	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 18:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 18:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 18:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1810	mg/L	100	100	1		02/15/22 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	196	mg/L	16.0	9.6	16		02/16/22 20:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:30	16984-48-8	
Sulfate	779	mg/L	16.0	8.0	16		02/16/22 20:00	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample:	MW-22	Lab ID:	92587322010	Collected:	02/08/22 16:59	Received:	02/09/22 12:40	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		02/09/22 17:34		
pH	5.37	Std. Units			1		02/09/22 17:34		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	221	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:02	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:02	7440-39-3	
Beryllium	0.000079J	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:02	7440-41-7	
Boron	3.2	mg/L	0.40	0.086	10	02/25/22 07:37	02/28/22 19:29	7440-42-8	
Cadmium	0.0020	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:02	7440-47-3	
Cobalt	0.034	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:02	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	1070	mg/L	20.0	20.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	110	mg/L	9.0	5.4	9		02/16/22 18:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:45	16984-48-8	
Sulfate	449	mg/L	9.0	4.5	9		02/16/22 18:46	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2

Pace Project No.: 92587322

Sample: MW-33 Lab ID: 92587322011 Collected: 02/08/22 16:35 Received: 02/09/22 12:40 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		02/09/22 17:34		
pH	4.42	Std. Units			1		02/09/22 17:34		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	548	mg/L	10.0	1.2	10	02/25/22 10:43	03/02/22 15:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:08	7440-36-0	
Arsenic	0.0069	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:08	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:08	7440-39-3	
Beryllium	0.00087J	mg/L	0.0025	0.00027	5	02/25/22 07:37	02/28/22 19:35	7440-41-7	D3
Boron	8.4	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 19:35	7440-42-8	
Cadmium	0.00013J	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:08	7440-47-3	
Cobalt	0.048	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:08	7440-48-4	
Lead	0.0014	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:08	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:08	7439-98-7	
Selenium	0.0078	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:08	7782-49-2	
Thallium	0.00025J	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2480	mg/L	100	100	1		02/15/22 16:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	166	mg/L	24.0	14.4	24		02/16/22 19:01	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		02/16/22 13:00	16984-48-8	
Sulfate	1220	mg/L	24.0	12.0	24		02/16/22 19:01	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: MW-35		Lab ID: 92587322012		Collected: 02/08/22 12:39		Received: 02/09/22 12:40		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		02/09/22 17:35		
pH	4.86	Std. Units			1		02/09/22 17:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	519	mg/L	10.0	1.2	10	02/25/22 10:43	03/02/22 15:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0029J	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:14	7440-36-0	
Arsenic	0.0072	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:14	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:14	7440-39-3	
Beryllium	0.00070J	mg/L	0.0025	0.00027	5	02/25/22 07:37	02/28/22 19:41	7440-41-7	D3
Boron	10.8	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 19:41	7440-42-8	
Cadmium	0.0015	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:14	7440-47-3	
Cobalt	0.090	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:14	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:14	7439-98-7	
Selenium	0.0083	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2410	mg/L	100	100	1		02/15/22 16:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	202	mg/L	23.0	13.8	23		02/16/22 19:16	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		02/16/22 13:15	16984-48-8	
Sulfate	1190	mg/L	23.0	11.5	23		02/16/22 19:16	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2

Pace Project No.: 92587322

Sample: MW-37D **Lab ID: 92587322013** Collected: 02/08/22 12:14 Received: 02/09/22 12:40 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		02/09/22 17:35		
pH	7.63	Std. Units			1		02/09/22 17:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	167	mg/L	1.0	0.12	1	02/25/22 10:43	03/01/22 00:54	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 20:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 20:49	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 20:49	7440-41-7	
Boron	0.14	mg/L	0.040	0.0086	1	02/25/22 10:38	02/28/22 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 20:49	7439-92-1	
Lithium	0.029J	mg/L	0.030	0.00073	1	02/25/22 10:38	02/28/22 16:55	7439-93-2	
Molybdenum	0.0070J	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 20:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 20:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 20:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	882	mg/L	20.0	20.0	1		02/15/22 16:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	151	mg/L	5.0	3.0	5		02/16/22 19:30	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/16/22 13:30	16984-48-8	
Sulfate	248	mg/L	5.0	2.5	5		02/16/22 19:30	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: MW-51		Lab ID: 92587322014		Collected: 02/08/22 14:10		Received: 02/09/22 12:40		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		02/09/22 17:35		
pH	6.57	Std. Units			1		02/09/22 17:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	537	mg/L	10.0	1.2	10	02/25/22 10:43	03/02/22 15:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 20:55	7440-36-0	
Arsenic	0.0046J	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 20:55	7440-38-2	
Barium	0.046	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 20:55	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 20:55	7440-41-7	
Boron	10.5	mg/L	2.0	0.43	50	02/25/22 10:38	02/28/22 17:01	7440-42-8	M1
Cadmium	0.00024J	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 20:55	7440-47-3	
Cobalt	0.031	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 20:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 20:55	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 20:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2430	mg/L	100	100	1		02/15/22 16:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	194	mg/L	15.0	9.0	15		02/19/22 17:18	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		02/18/22 23:56	16984-48-8	
Sulfate	1150	mg/L	15.0	7.5	15		02/19/22 17:18	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: DUP-2		Lab ID: 92587322015		Collected: 02/08/22 00:00		Received: 02/09/22 12:40		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	188	mg/L	1.0	0.12	1	02/25/22 10:43	03/01/22 01:18	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0017J	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 21:19	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 21:19	7440-38-2		
Barium	0.013	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 21:19	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 21:19	7440-41-7		
Boron	2.0	mg/L	0.40	0.086	10	02/25/22 10:38	02/28/22 17:18	7440-42-8		
Cadmium	0.0013	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 21:19	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 21:19	7440-47-3		
Cobalt	0.013	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 21:19	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 21:19	7439-92-1		
Lithium	0.013J	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 21:19	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 21:19	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 21:19	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 21:19	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:22	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	894	mg/L	20.0	20.0	1		02/15/22 16:05			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	74.7	mg/L	1.0	0.60	1		02/16/22 14:15	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 14:15	16984-48-8		
Sulfate	361	mg/L	7.0	3.5	7		02/16/22 19:45	14808-79-8		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-44D		Lab ID: 92587322017		Collected: 02/01/22 13:35	Received: 02/03/22 12:32	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		02/09/22 17:36		
pH	8.25	Std. Units			1		02/09/22 17:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.8	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 17:43	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:43	7440-38-2	
Barium	0.23	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:43	7440-41-7	
Boron	0.44	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 17:43	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 17:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 17:43	7439-92-1	
Lithium	0.048	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 17:43	7439-93-2	
Molybdenum	0.0055J	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 17:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 08:00	02/15/22 13:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	444	mg/L	10.0	10.0	1		02/07/22 16:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	44.8	mg/L	1.0	0.60	1		02/08/22 12:23	16887-00-6	
Fluoride	0.96	mg/L	0.10	0.050	1		02/08/22 12:23	16984-48-8	
Sulfate	56.3	mg/L	1.0	0.50	1		02/08/22 12:23	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-2		Lab ID: 92587322018		Collected: 02/01/22 11:52	Received: 02/03/22 12:32	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		02/09/22 17:36		
pH	5.24	Std. Units			1		02/09/22 17:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	27.2	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 17:49	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:49	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:49	7440-39-3	
Beryllium	0.00020J	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:49	7440-41-7	
Boron	0.056	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:49	7440-42-8	
Cadmium	0.00017J	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 17:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:49	7440-47-3	
Cobalt	0.025	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 17:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 17:49	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 17:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 17:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 17:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 17:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 08:00	02/15/22 13:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/07/22 16:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		02/08/22 13:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 13:36	16984-48-8	
Sulfate	67.1	mg/L	1.0	0.50	1		02/08/22 13:36	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-3		Lab ID: 92587322019		Collected: 02/01/22 09:58		Received: 02/03/22 12:32		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		02/09/22 17:36		
pH	7.45	Std. Units			1		02/09/22 17:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	85.1	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 17:55	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:55	7440-38-2	
Barium	0.12	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:55	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 17:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 17:55	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 17:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 17:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 17:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 17:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 15:15	02/16/22 10:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	350	mg/L	10.0	10.0	1		02/07/22 16:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		02/08/22 13:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 13:50	16984-48-8	
Sulfate	46.0	mg/L	1.0	0.50	1		02/08/22 13:50	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-1		Lab ID: 92587322020		Collected: 02/01/22 12:13	Received: 02/03/22 12:32	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		02/09/22 17:36		
pH	7.19	Std. Units			1		02/09/22 17:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	106	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 17:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 18:01	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:01	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 18:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 18:01	7440-41-7	
Boron	0.016J	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 18:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 18:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 18:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 18:01	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 18:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 18:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 18:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 18:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 15:15	02/16/22 11:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	270	mg/L	10.0	10.0	1		02/07/22 16:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		02/08/22 14:03	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		02/08/22 14:03	16984-48-8	
Sulfate	43.7	mg/L	1.0	0.50	1		02/08/22 14:03	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWA-43D		Lab ID: 92587322021		Collected: 02/01/22 10:28		Received: 02/03/22 12:32		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		02/09/22 17:37		
pH	7.52	Std. Units			1		02/09/22 17:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.9	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 17:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 18:07	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:07	7440-38-2	
Barium	0.29	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 18:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 18:07	7440-41-7	
Boron	0.050	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 18:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 18:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 18:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 18:07	7439-92-1	
Lithium	0.0024J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 18:07	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 18:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 18:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 18:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 15:15	02/16/22 11:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/07/22 16:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		02/08/22 14:17	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.050	1		02/08/22 14:17	16984-48-8	
Sulfate	37.5	mg/L	1.0	0.50	1		02/08/22 14:17	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: HGWC-14		Lab ID: 92587322022		Collected: 02/09/22 15:23		Received: 02/11/22 11:35		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		02/11/22 15:57		
pH	4.97	Std. Units			1		02/11/22 15:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	571	mg/L	10.0	1.2	10	02/25/22 10:43	03/02/22 15:30	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 22:37	7440-36-0	
Arsenic	0.0077	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 22:37	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 22:37	7440-39-3	
Beryllium	0.00056	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 22:37	7440-41-7	
Boron	9.9	mg/L	2.0	0.43	50	02/25/22 10:38	02/28/22 18:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 22:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 22:37	7440-47-3	
Cobalt	0.038	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 22:37	7440-48-4	
Lead	0.0014	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 22:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 22:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 22:37	7439-98-7	
Selenium	0.0047J	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 22:37	7782-49-2	
Thallium	0.00025J	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 22:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2310	mg/L	100	100	1		02/16/22 13:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	174	mg/L	24.0	14.4	24		02/18/22 00:24	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		02/17/22 13:11	16984-48-8	
Sulfate	1190	mg/L	24.0	12.0	24		02/18/22 00:24	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: MW-34D		Lab ID: 92587322023		Collected: 02/09/22 13:50		Received: 02/11/22 11:35		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		02/11/22 15:57		
pH	7.21	Std. Units			1		02/11/22 15:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	557	mg/L	10.0	1.2	10	02/25/22 10:43	03/02/22 15:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 22:43	7440-36-0	
Arsenic	0.0054	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 22:43	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 22:43	7440-39-3	
Beryllium	0.000065J	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 22:43	7440-41-7	
Boron	9.6	mg/L	2.0	0.43	50	02/25/22 10:38	02/28/22 18:26	7440-42-8	
Cadmium	0.00072	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 22:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 22:43	7440-47-3	
Cobalt	0.0065	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 22:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 22:43	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 22:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 22:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 22:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 22:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2260	mg/L	100	100	1		02/16/22 13:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	251	mg/L	21.0	12.6	21		02/18/22 00:38	16887-00-6	
Fluoride	0.051J	mg/L	0.10	0.050	1		02/17/22 13:26	16984-48-8	
Sulfate	1050	mg/L	21.0	10.5	21		02/18/22 00:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: MW-23D		Lab ID: 92587322024		Collected: 02/10/22 09:49		Received: 02/11/22 11:35		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		02/11/22 15:57		
pH	6.87	Std. Units			1		02/11/22 15:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	288	mg/L	10.0	1.2	10	02/25/22 10:43	03/02/22 15:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 23:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 23:01	7440-38-2	
Barium	0.050	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 23:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 23:01	7440-41-7	
Boron	3.2	mg/L	0.40	0.086	10	02/25/22 10:38	02/28/22 18:32	7440-42-8	
Cadmium	0.00024J	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 23:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 23:01	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 23:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 23:01	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 23:01	7439-93-2	
Molybdenum	0.0034J	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 23:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 23:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 23:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1260	mg/L	50.0	50.0	1		02/16/22 14:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	138	mg/L	9.0	5.4	9		02/18/22 00:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 13:41	16984-48-8	
Sulfate	430	mg/L	9.0	4.5	9		02/18/22 00:53	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: EB-2		Lab ID: 92587322025		Collected: 02/10/22 10:25		Received: 02/11/22 11:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/25/22 10:43	03/01/22 02:25	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 23:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 23:07	7440-38-2		
Barium	0.0024J	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 23:07	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 23:07	7440-41-7		
Boron	0.020J	mg/L	0.040	0.0086	1	02/25/22 10:38	02/25/22 23:07	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 23:07	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 23:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 23:07	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 23:07	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 23:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 23:07	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 23:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 23:07	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:33	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/16/22 14:18			
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		02/17/22 13:56	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 13:56	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 13:56	14808-79-8		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2
Pace Project No.: 92587322

Sample: FB-2		Lab ID: 92587322026		Collected: 02/10/22 10:30		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	02/25/22 10:43	03/01/22 02:30	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 10:38	02/25/22 23:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 23:13	7440-38-2	
Barium	0.0025J	mg/L	0.0050	0.00067	1	02/25/22 10:38	02/25/22 23:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 10:38	02/25/22 23:13	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0086	1	02/25/22 10:38	02/25/22 23:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 10:38	02/25/22 23:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 10:38	02/25/22 23:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 10:38	02/25/22 23:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 10:38	02/25/22 23:13	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 10:38	02/25/22 23:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 10:38	02/25/22 23:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 10:38	02/25/22 23:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 10:38	02/25/22 23:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 13:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/16/22 14:18		
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		02/17/22 14:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 14:11	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 14:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

QC Batch: 678931

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587322017, 92587322018, 92587322019, 92587322020, 92587322021

METHOD BLANK: 3552812

Matrix: Water

Associated Lab Samples: 92587322017, 92587322018, 92587322019, 92587322020, 92587322021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/17/22 15:21	

LABORATORY CONTROL SAMPLE: 3552813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552814 3552815

Parameter	Units	3552814		3552815		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	51.3	1	51.3	51.0	177	-37	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

QC Batch:	680760	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010

METHOD BLANK: 3561423 Matrix: Water

Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/25/22 16:35	

LABORATORY CONTROL SAMPLE: 3561424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3561425 3561426

Parameter	Units	92587322003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	53.4	1	1	57.1	57.3	367	381	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch:	680899	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587322011, 92587322012, 92587322013, 92587322014, 92587322015, 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

METHOD BLANK: 3562225 Matrix: Water
Associated Lab Samples: 92587322011, 92587322012, 92587322013, 92587322014, 92587322015, 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/01/22 00:25	

LABORATORY CONTROL SAMPLE: 3562226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3562227 3562228

Parameter	Units	92587322013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	167	1	1	164	165	-228	-156	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 678928 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322017, 92587322018, 92587322019, 92587322020, 92587322021

METHOD BLANK: 3552808 Matrix: Water
Associated Lab Samples: 92587322017, 92587322018, 92587322019, 92587322020, 92587322021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/17/22 21:50	
Arsenic	mg/L	ND	0.0050	0.0011	02/17/22 21:50	
Barium	mg/L	ND	0.0050	0.00067	02/17/22 21:50	
Beryllium	mg/L	ND	0.00050	0.000054	02/17/22 21:50	
Boron	mg/L	ND	0.040	0.0086	02/17/22 21:50	
Cadmium	mg/L	ND	0.00050	0.00011	02/17/22 21:50	
Chromium	mg/L	ND	0.0050	0.0011	02/17/22 21:50	
Cobalt	mg/L	ND	0.0050	0.00039	02/17/22 21:50	
Lead	mg/L	ND	0.0010	0.00089	02/17/22 21:50	
Lithium	mg/L	ND	0.030	0.00073	02/18/22 16:01	
Molybdenum	mg/L	ND	0.010	0.00074	02/17/22 21:50	
Selenium	mg/L	ND	0.0050	0.0014	02/17/22 21:50	
Thallium	mg/L	ND	0.0010	0.00018	02/17/22 21:50	

LABORATORY CONTROL SAMPLE: 3552809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	119	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.11	107	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.11	109	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552810 3552811

Parameter	Units	92586342001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.13	122	125	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

Parameter	Units	3552810		3552811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92586342001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	108	107	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20		
Boron	mg/L	0.17	1	1	1.1	1.1	90	89	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	108	109	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.11	0.11	108	108	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	102	106	75-125	4	20		
Molybdenum	mg/L	0.0020J	0.1	0.1	0.12	0.12	116	116	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	111	110	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 680757 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010, 92587322011, 92587322012

METHOD BLANK: 3561407 Matrix: Water
Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010, 92587322011, 92587322012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/25/22 16:19	
Arsenic	mg/L	ND	0.0050	0.0011	02/25/22 16:19	
Barium	mg/L	ND	0.0050	0.00067	02/25/22 16:19	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/22 16:19	
Boron	mg/L	ND	0.040	0.0086	02/25/22 16:19	
Cadmium	mg/L	ND	0.00050	0.00011	02/25/22 16:19	
Chromium	mg/L	ND	0.0050	0.0011	02/25/22 16:19	
Cobalt	mg/L	ND	0.0050	0.00039	02/25/22 16:19	
Lead	mg/L	ND	0.0010	0.00089	02/25/22 16:19	
Lithium	mg/L	ND	0.030	0.00073	02/25/22 16:19	
Molybdenum	mg/L	ND	0.010	0.00074	02/25/22 16:19	
Selenium	mg/L	ND	0.0050	0.0014	02/25/22 16:19	
Thallium	mg/L	ND	0.0010	0.00018	02/25/22 16:19	

LABORATORY CONTROL SAMPLE: 3561408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.087	87	80-120	
Beryllium	mg/L	0.1	0.091	91	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.091	91	80-120	
Chromium	mg/L	0.1	0.091	91	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.088	88	80-120	
Lithium	mg/L	0.1	0.090	90	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.088	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3561409 3561410

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587322002 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.091	102	91	75-125	12	20

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3561409 3561410												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92587322002 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	ND	0.1	0.1	0.098	0.090	98	90	75-125	8	20	
Barium	mg/L	0.038	0.1	0.1	0.14	0.13	105	89	75-125	12	20	
Beryllium	mg/L	ND	0.1	0.1	0.094	0.087	94	87	75-125	8	20	
Boron	mg/L	ND	1	1	0.94	0.92	94	91	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.089	97	89	75-125	9	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.090	97	89	75-125	8	20	
Cobalt	mg/L	0.00055J	0.1	0.1	0.093	0.088	92	88	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.083	95	83	75-125	14	20	
Lithium	mg/L	0.0029J	0.1	0.1	0.097	0.088	94	85	75-125	10	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.088	97	88	75-125	10	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.089	96	89	75-125	8	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.084	93	84	75-125	10	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 680871 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322013, 92587322014, 92587322015, 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

METHOD BLANK: 3562117 Matrix: Water
Associated Lab Samples: 92587322013, 92587322014, 92587322015, 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/25/22 20:37	
Arsenic	mg/L	ND	0.0050	0.0011	02/25/22 20:37	
Barium	mg/L	ND	0.0050	0.00067	02/25/22 20:37	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/22 20:37	
Boron	mg/L	ND	0.040	0.0086	02/25/22 20:37	
Cadmium	mg/L	ND	0.00050	0.00011	02/25/22 20:37	
Chromium	mg/L	ND	0.0050	0.0011	02/25/22 20:37	
Cobalt	mg/L	ND	0.0050	0.00039	02/25/22 20:37	
Lead	mg/L	ND	0.0010	0.00089	02/25/22 20:37	
Lithium	mg/L	ND	0.030	0.00073	02/25/22 20:37	
Molybdenum	mg/L	ND	0.010	0.00074	02/25/22 20:37	
Selenium	mg/L	ND	0.0050	0.0014	02/25/22 20:37	
Thallium	mg/L	ND	0.0010	0.00018	02/25/22 20:37	

LABORATORY CONTROL SAMPLE: 3562118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.11	115	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3562119 3562120

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587322014	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3562119 3562120												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		92587322014	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Arsenic	mg/L	0.0046J	0.1	0.1	0.11	0.12	106	110	75-125	4	20	
Barium	mg/L	0.046	0.1	0.1	0.15	0.15	105	109	75-125	3	20	
Beryllium	mg/L	0.00011J	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Boron	mg/L	10.5	1	1	11.0	11.5	50	104	75-125	5	20	M1
Cadmium	mg/L	0.00024J	0.1	0.1	0.094	0.099	94	99	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	99	106	75-125	7	20	
Cobalt	mg/L	0.031	0.1	0.1	0.12	0.13	93	99	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.085	0.087	85	87	75-125	3	20	
Lithium	mg/L	0.0010J	0.1	0.1	0.11	0.11	108	112	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.099	95	98	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	104	108	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.087	0.090	87	90	75-125	3	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 678094 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322017, 92587322018

METHOD BLANK: 3548852 Matrix: Water
Associated Lab Samples: 92587322017, 92587322018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/22 12:00	

LABORATORY CONTROL SAMPLE: 3548853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3548854 3548855

Parameter	Units	92585561007		3548855		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	96	95	75-125	1	20

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 678396 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322019, 92587322020, 92587322021

METHOD BLANK: 3550157 Matrix: Water
Associated Lab Samples: 92587322019, 92587322020, 92587322021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 10:48	

LABORATORY CONTROL SAMPLE: 3550158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550159 3550160

Parameter	Units	3550159		3550160		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0021	0.0023	85	92	75-125	8	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 680662 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010, 92587322011, 92587322012, 92587322013, 92587322014, 92587322015, 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

METHOD BLANK: 3560817 Matrix: Water
Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010, 92587322011, 92587322012, 92587322013, 92587322014, 92587322015, 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/25/22 12:21	

LABORATORY CONTROL SAMPLE: 3560818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560819 3560820

Parameter	Units	92587322001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

QC Batch: 677216

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004

METHOD BLANK: 3544560

Matrix: Water

Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/11/22 11:39	

LABORATORY CONTROL SAMPLE: 3544561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 3544562

Parameter	Units	92586436027 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	162	168	4	25	

SAMPLE DUPLICATE: 3544563

Parameter	Units	92586613016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	161	155	4	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2

Pace Project No.: 92587322

QC Batch: 678705

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587322022, 92587322023

METHOD BLANK: 3551645

Matrix: Water

Associated Lab Samples: 92587322022, 92587322023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/16/22 13:52	

LABORATORY CONTROL SAMPLE: 3551646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3551647

Parameter	Units	92587096008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 3551648

Parameter	Units	92587319007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	756	708	7	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 678707 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587322024, 92587322025, 92587322026

METHOD BLANK: 3551650 Matrix: Water
Associated Lab Samples: 92587322024, 92587322025, 92587322026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/16/22 14:16	

LABORATORY CONTROL SAMPLE: 3551651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3551652

Parameter	Units	92587881001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	229	228	0	25	

SAMPLE DUPLICATE: 3551653

Parameter	Units	92587855001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	94.0	95.0	1	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 676561 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: 92587322017, 92587322018, 92587322019, 92587322020, 92587322021

METHOD BLANK: 3541395 Matrix: Water
Associated Lab Samples: 92587322017, 92587322018, 92587322019, 92587322020, 92587322021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/22 06:35	
Fluoride	mg/L	ND	0.10	0.050	02/08/22 06:35	
Sulfate	mg/L	ND	1.0	0.50	02/08/22 06:35	

LABORATORY CONTROL SAMPLE: 3541396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541397 3541398

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585561005 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.1	50	50	56.9	57.4	105	106	90-110	1	10		
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.6	98	99	90-110	2	10		
Sulfate	mg/L	25.5	50	50	77.5	78.0	104	105	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541399 3541400

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586342003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.5	50	50	55.3	55.0	106	105	90-110	1	10		
Fluoride	mg/L	0.36	2.5	2.5	2.9	2.9	100	100	90-110	0	10		
Sulfate	mg/L	201	50	50	246	243	91	84	90-110	1	10 M1		

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch:	678309	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: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010, 92587322011, 92587322012, 92587322013, 92587322015

METHOD BLANK: 3549772 Matrix: Water
Associated Lab Samples: 92587322001, 92587322002, 92587322003, 92587322004, 92587322005, 92587322006, 92587322007, 92587322008, 92587322009, 92587322010, 92587322011, 92587322012, 92587322013, 92587322015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 07:00	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 07:00	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 07:00	

LABORATORY CONTROL SAMPLE: 3549773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549774 3549775

Parameter	Units	92586613018		3549775		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	0.70J	50	51.9	51.3	102	101	90-110	1	10	
Fluoride	mg/L	0.082J	2.5	2.7	2.6	104	103	90-110	1	10	
Sulfate	mg/L	13.0	50	64.4	63.7	103	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549776 3549777

Parameter	Units	92587322007		3549777		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	117	50	163	162	92	90	90-110	1	10	
Fluoride	mg/L	0.055J	2.5	2.7	2.7	106	104	90-110	1	10	
Sulfate	mg/L	364	50	407	406	87	84	90-110	0	10 M1	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 678880 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: 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

METHOD BLANK: 3552686 Matrix: Water
Associated Lab Samples: 92587322022, 92587322023, 92587322024, 92587322025, 92587322026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 11:56	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 11:56	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 11:56	

LABORATORY CONTROL SAMPLE: 3552687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552688 3552689

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586225004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	12.5	50	50	63.1	63.2	101	101	90-110	0	10		
Fluoride	mg/L	0.15	2.5	2.5	2.7	2.7	102	104	90-110	1	10		
Sulfate	mg/L	967	50	50	1000	1000	73	76	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552690 3552691

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587319007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	84.4	50	50	125	125	81	82	90-110	0	10	M1	
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	103	105	90-110	2	10		
Sulfate	mg/L	224	50	50	270	270	94	93	90-110	0	10		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2
Pace Project No.: 92587322

QC Batch: 679328 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: 92587322014

METHOD BLANK: 3554532 Matrix: Water
Associated Lab Samples: 92587322014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/18/22 20:56	
Fluoride	mg/L	ND	0.10	0.050	02/18/22 20:56	
Sulfate	mg/L	ND	1.0	0.50	02/18/22 20:56	

LABORATORY CONTROL SAMPLE: 3554533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554534 3554535

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92588782001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	4.2	50	50	54.3	55.2	100	102	90-110	2	10		
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.7	99	102	90-110	2	10		
Sulfate	mg/L	3.1	50	50	53.1	54.1	100	102	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554536 3554537

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587881007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.9	50	50	59.0	59.3	100	101	90-110	0	10		
Fluoride	mg/L	0.071J	2.5	2.5	2.6	2.6	100	101	90-110	1	10		
Sulfate	mg/L	70.0	50	50	113	113	87	87	90-110	0	10 M1		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HAMMOND AP-2
Pace Project No.: 92587322

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.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2
Pace Project No.: 92587322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587322001	HGWA-4				
92587322002	HGWA-5				
92587322003	HGWA-6				
92587322004	HGWA-42D				
92587322005	HGWC-15				
92587322006	HGWC-16				
92587322007	HGWC-17				
92587322008	HGWC-18				
92587322009	MW-21D				
92587322010	MW-22				
92587322011	MW-33				
92587322012	MW-35				
92587322013	MW-37D				
92587322014	MW-51				
92587322017	HGWA-44D				
92587322018	HGWA-2				
92587322019	HGWA-3				
92587322020	HGWA-1				
92587322021	HGWA-43D				
92587322022	HGWC-14				
92587322023	MW-34D				
92587322024	MW-23D				
92587322001	HGWA-4	EPA 3010A	680760	EPA 6010D	680944
92587322002	HGWA-5	EPA 3010A	680760	EPA 6010D	680944
92587322003	HGWA-6	EPA 3010A	680760	EPA 6010D	680944
92587322004	HGWA-42D	EPA 3010A	680760	EPA 6010D	680944
92587322005	HGWC-15	EPA 3010A	680760	EPA 6010D	680944
92587322006	HGWC-16	EPA 3010A	680760	EPA 6010D	680944
92587322007	HGWC-17	EPA 3010A	680760	EPA 6010D	680944
92587322008	HGWC-18	EPA 3010A	680760	EPA 6010D	680944
92587322009	MW-21D	EPA 3010A	680760	EPA 6010D	680944
92587322010	MW-22	EPA 3010A	680760	EPA 6010D	680944
92587322011	MW-33	EPA 3010A	680899	EPA 6010D	681055
92587322012	MW-35	EPA 3010A	680899	EPA 6010D	681055
92587322013	MW-37D	EPA 3010A	680899	EPA 6010D	681055
92587322014	MW-51	EPA 3010A	680899	EPA 6010D	681055
92587322015	DUP-2	EPA 3010A	680899	EPA 6010D	681055
92587322017	HGWA-44D	EPA 3010A	678931	EPA 6010D	679039
92587322018	HGWA-2	EPA 3010A	678931	EPA 6010D	679039
92587322019	HGWA-3	EPA 3010A	678931	EPA 6010D	679039
92587322020	HGWA-1	EPA 3010A	678931	EPA 6010D	679039
92587322021	HGWA-43D	EPA 3010A	678931	EPA 6010D	679039
92587322022	HGWC-14	EPA 3010A	680899	EPA 6010D	681055
92587322023	MW-34D	EPA 3010A	680899	EPA 6010D	681055
92587322024	MW-23D	EPA 3010A	680899	EPA 6010D	681055
92587322025	EB-2	EPA 3010A	680899	EPA 6010D	681055
92587322026	FB-2	EPA 3010A	680899	EPA 6010D	681055

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587322001	HGWA-4	EPA 3005A	680757	EPA 6020B	680941
92587322002	HGWA-5	EPA 3005A	680757	EPA 6020B	680941
92587322003	HGWA-6	EPA 3005A	680757	EPA 6020B	680941
92587322004	HGWA-42D	EPA 3005A	680757	EPA 6020B	680941
92587322005	HGWC-15	EPA 3005A	680757	EPA 6020B	680941
92587322006	HGWC-16	EPA 3005A	680757	EPA 6020B	680941
92587322007	HGWC-17	EPA 3005A	680757	EPA 6020B	680941
92587322008	HGWC-18	EPA 3005A	680757	EPA 6020B	680941
92587322009	MW-21D	EPA 3005A	680757	EPA 6020B	680941
92587322010	MW-22	EPA 3005A	680757	EPA 6020B	680941
92587322011	MW-33	EPA 3005A	680757	EPA 6020B	680941
92587322012	MW-35	EPA 3005A	680757	EPA 6020B	680941
92587322013	MW-37D	EPA 3005A	680871	EPA 6020B	681052
92587322014	MW-51	EPA 3005A	680871	EPA 6020B	681052
92587322015	DUP-2	EPA 3005A	680871	EPA 6020B	681052
92587322017	HGWA-44D	EPA 3005A	678928	EPA 6020B	679033
92587322018	HGWA-2	EPA 3005A	678928	EPA 6020B	679033
92587322019	HGWA-3	EPA 3005A	678928	EPA 6020B	679033
92587322020	HGWA-1	EPA 3005A	678928	EPA 6020B	679033
92587322021	HGWA-43D	EPA 3005A	678928	EPA 6020B	679033
92587322022	HGWC-14	EPA 3005A	680871	EPA 6020B	681052
92587322023	MW-34D	EPA 3005A	680871	EPA 6020B	681052
92587322024	MW-23D	EPA 3005A	680871	EPA 6020B	681052
92587322025	EB-2	EPA 3005A	680871	EPA 6020B	681052
92587322026	FB-2	EPA 3005A	680871	EPA 6020B	681052
92587322001	HGWA-4	EPA 7470A	680662	EPA 7470A	680886
92587322002	HGWA-5	EPA 7470A	680662	EPA 7470A	680886
92587322003	HGWA-6	EPA 7470A	680662	EPA 7470A	680886
92587322004	HGWA-42D	EPA 7470A	680662	EPA 7470A	680886
92587322005	HGWC-15	EPA 7470A	680662	EPA 7470A	680886
92587322006	HGWC-16	EPA 7470A	680662	EPA 7470A	680886
92587322007	HGWC-17	EPA 7470A	680662	EPA 7470A	680886
92587322008	HGWC-18	EPA 7470A	680662	EPA 7470A	680886
92587322009	MW-21D	EPA 7470A	680662	EPA 7470A	680886
92587322010	MW-22	EPA 7470A	680662	EPA 7470A	680886
92587322011	MW-33	EPA 7470A	680662	EPA 7470A	680886
92587322012	MW-35	EPA 7470A	680662	EPA 7470A	680886
92587322013	MW-37D	EPA 7470A	680662	EPA 7470A	680886
92587322014	MW-51	EPA 7470A	680662	EPA 7470A	680886
92587322015	DUP-2	EPA 7470A	680662	EPA 7470A	680886
92587322017	HGWA-44D	EPA 7470A	678094	EPA 7470A	678301
92587322018	HGWA-2	EPA 7470A	678094	EPA 7470A	678301
92587322019	HGWA-3	EPA 7470A	678396	EPA 7470A	678613
92587322020	HGWA-1	EPA 7470A	678396	EPA 7470A	678613
92587322021	HGWA-43D	EPA 7470A	678396	EPA 7470A	678613

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2
Pace Project No.: 92587322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587322022	HGWC-14	EPA 7470A	680662	EPA 7470A	680886
92587322023	MW-34D	EPA 7470A	680662	EPA 7470A	680886
92587322024	MW-23D	EPA 7470A	680662	EPA 7470A	680886
92587322025	EB-2	EPA 7470A	680662	EPA 7470A	680886
92587322026	FB-2	EPA 7470A	680662	EPA 7470A	680886
92587322001	HGWA-4	SM 2540C-2015	677216		
92587322002	HGWA-5	SM 2540C-2015	677216		
92587322003	HGWA-6	SM 2540C-2015	677216		
92587322004	HGWA-42D	SM 2540C-2015	677216		
92587322005	HGWC-15	SM 2540C-2015	678369		
92587322006	HGWC-16	SM 2540C-2015	678369		
92587322007	HGWC-17	SM 2540C-2015	678369		
92587322008	HGWC-18	SM 2540C-2015	678369		
92587322009	MW-21D	SM 2540C-2015	678369		
92587322010	MW-22	SM 2540C-2015	678369		
92587322011	MW-33	SM 2540C-2015	678369		
92587322012	MW-35	SM 2540C-2015	678369		
92587322013	MW-37D	SM 2540C-2015	678369		
92587322014	MW-51	SM 2540C-2015	678369		
92587322015	DUP-2	SM 2540C-2015	678369		
92587322017	HGWA-44D	SM 2540C-2015	677215		
92587322018	HGWA-2	SM 2540C-2015	677215		
92587322019	HGWA-3	SM 2540C-2015	677215		
92587322020	HGWA-1	SM 2540C-2015	677215		
92587322021	HGWA-43D	SM 2540C-2015	677215		
92587322022	HGWC-14	SM 2540C-2015	678705		
92587322023	MW-34D	SM 2540C-2015	678705		
92587322024	MW-23D	SM 2540C-2015	678707		
92587322025	EB-2	SM 2540C-2015	678707		
92587322026	FB-2	SM 2540C-2015	678707		
92587322001	HGWA-4	EPA 300.0 Rev 2.1 1993	678309		
92587322002	HGWA-5	EPA 300.0 Rev 2.1 1993	678309		
92587322003	HGWA-6	EPA 300.0 Rev 2.1 1993	678309		
92587322004	HGWA-42D	EPA 300.0 Rev 2.1 1993	678309		
92587322005	HGWC-15	EPA 300.0 Rev 2.1 1993	678309		
92587322006	HGWC-16	EPA 300.0 Rev 2.1 1993	678309		
92587322007	HGWC-17	EPA 300.0 Rev 2.1 1993	678309		
92587322008	HGWC-18	EPA 300.0 Rev 2.1 1993	678309		
92587322009	MW-21D	EPA 300.0 Rev 2.1 1993	678309		
92587322010	MW-22	EPA 300.0 Rev 2.1 1993	678309		
92587322011	MW-33	EPA 300.0 Rev 2.1 1993	678309		
92587322012	MW-35	EPA 300.0 Rev 2.1 1993	678309		
92587322013	MW-37D	EPA 300.0 Rev 2.1 1993	678309		
92587322014	MW-51	EPA 300.0 Rev 2.1 1993	679328		
92587322015	DUP-2	EPA 300.0 Rev 2.1 1993	678309		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: HAMMOND AP-2

Pace Project No.: 92587322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587322017	HGWA-44D	EPA 300.0 Rev 2.1 1993	676561		
92587322018	HGWA-2	EPA 300.0 Rev 2.1 1993	676561		
92587322019	HGWA-3	EPA 300.0 Rev 2.1 1993	676561		
92587322020	HGWA-1	EPA 300.0 Rev 2.1 1993	676561		
92587322021	HGWA-43D	EPA 300.0 Rev 2.1 1993	676561		
92587322022	HGWC-14	EPA 300.0 Rev 2.1 1993	678880		
92587322023	MW-34D	EPA 300.0 Rev 2.1 1993	678880		
92587322024	MW-23D	EPA 300.0 Rev 2.1 1993	678880		
92587322025	EB-2	EPA 300.0 Rev 2.1 1993	678880		
92587322026	FB-2	EPA 300.0 Rev 2.1 1993	678880		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: _____ Client Name: GIA Power Project #: **WO# : 92587322**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: JPE 2/9/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 2.4 Correction Factor: +1.2
Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 2.6

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	9.
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: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:
GA Power

Project #: **WO#: 92586342**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/3/22*
TJW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 2.6

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
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: _____

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92587322**
 PM: NMG Due Date: 02/17/22
 CLIENT: GA-GA Power

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

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Date/Initials Person Examining Contents: MT 2/11/22

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 4.2 Correction Factor: Add/Subtract (°C) ±0.2

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

Cooler Temp Corrected (°C): 4.4

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 CQC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:			
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: _____

April 06, 2022

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

RE: Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Dear Joju Abraham:

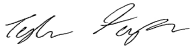
Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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 - Greensburg

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

Sincerely,



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

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Anthony Szwast, Geosyntec
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587304001	HGWA-4	Water	02/07/22 14:28	02/09/22 12:40
92587304002	HGWA-5	Water	02/07/22 16:51	02/09/22 12:40
92587304003	HGWA-6	Water	02/07/22 16:31	02/09/22 12:40
92587304004	HGWA-42D	Water	02/07/22 15:57	02/09/22 12:40
92587304005	HGWC-15	Water	02/08/22 13:49	02/09/22 12:40
92587304006	HGWC-16	Water	02/08/22 12:09	02/09/22 12:40
92587304007	HGWC-17	Water	02/08/22 10:33	02/09/22 12:40
92587304008	HGWC-18	Water	02/08/22 15:40	02/09/22 12:40
92587304009	MW-21D	Water	02/08/22 14:30	02/09/22 12:40
92587304010	MW-22	Water	02/08/22 16:59	02/09/22 12:40
92587304011	MW-33	Water	02/08/22 16:35	02/09/22 12:40
92587304012	MW-35	Water	02/08/22 12:39	02/09/22 12:40
92587304013	MW-37D	Water	02/08/22 12:14	02/09/22 12:40
92587304014	MW-51	Water	02/08/22 14:10	02/09/22 12:40
92587304015	DUP-2	Water	02/08/22 00:00	02/09/22 12:40
92587304017	HGWA-44D	Water	02/01/22 13:35	02/09/22 12:40
92587304018	HGWA-2	Water	02/01/22 11:52	02/09/22 12:40
92587304019	HGWA-3	Water	02/01/22 09:58	02/09/22 12:40
92587304020	HGWA-1	Water	02/01/22 12:13	02/09/22 12:40
92587304021	HGWA-43D	Water	02/01/22 10:28	02/09/22 12:40
92587304022	HGWC-14	Water	02/09/22 15:23	02/11/22 11:35
92587304023	MW-34D	Water	02/09/22 13:50	02/11/22 11:35
92587304024	MW-23D	Water	02/10/22 09:49	02/11/22 11:35
92587304025	EB-2	Water	02/10/22 10:25	02/11/22 11:35
92587304026	FB-2	Water	02/10/22 10:30	02/11/22 11:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587304001	HGWA-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304002	HGWA-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304003	HGWA-6	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304004	HGWA-42D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304005	HGWC-15	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304006	HGWC-16	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304007	HGWC-17	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304008	HGWC-18	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304009	MW-21D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304010	MW-22	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304011	MW-33	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304012	MW-35	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587304013	MW-37D	EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587304014	MW-51	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587304015	DUP-2	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587304022	HGWC-14	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587304023	MW-34D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587304024	MW-23D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587304025	EB-2	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587304026	FB-2	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587304001	HGWA-4					
EPA 9315	Radium-226	0.0978 ± 0.0780 (0.124) C:96% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	-0.128 ± 0.418 (1.02) C:67% T:99%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.0978 ± 0.496 (1.14)	pCi/L		03/22/22 15:27	
92587304002	HGWA-5					
EPA 9315	Radium-226	0.106 ± 0.0880 (0.151) C:92% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	-0.225 ± 0.441 (1.09) C:68% T:94%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.106 ± 0.529 (1.24)	pCi/L		03/22/22 15:27	
92587304003	HGWA-6					
EPA 9315	Radium-226	0.144 ± 0.0933 (0.134) C:95% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.202 ± 0.528 (1.18) C:66% T:91%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.346 ± 0.621 (1.31)	pCi/L		03/22/22 15:27	
92587304004	HGWA-42D					
EPA 9315	Radium-226	0.0660 ± 0.0718 (0.137) C:96% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	-0.365 ± 0.402 (1.04) C:72% T:93%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.0660 ± 0.474 (1.18)	pCi/L		03/22/22 15:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587304005	HGWC-15					
EPA 9315	Radium-226	0.0242 ± 0.0494 (0.115) C:94% T:NA	pCi/L		03/22/22 10:20	
EPA 9320	Radium-228	0.000 ± 0.541 (1.26) C:73% T:87%	pCi/L		03/08/22 18:58	
Total Radium Calculation	Total Radium	0.0242 ± 0.590 (1.38)	pCi/L		03/22/22 15:27	
92587304006	HGWC-16					
EPA 9315	Radium-226	0.168 ± 0.0990 (0.136) C:95% T:NA	pCi/L		03/22/22 10:20	
EPA 9320	Radium-228	-0.0483 ± 0.505 (1.19) C:68% T:94%	pCi/L		03/08/22 18:59	
Total Radium Calculation	Total Radium	0.168 ± 0.604 (1.33)	pCi/L		03/22/22 15:27	
92587304007	HGWC-17					
EPA 9315	Radium-226	0.0786 ± 0.0718 (0.125) C:99% T:NA	pCi/L		03/22/22 10:21	
EPA 9320	Radium-228	0.922 ± 0.646 (1.25) C:68% T:91%	pCi/L		03/08/22 18:59	
Total Radium Calculation	Total Radium	1.00 ± 0.718 (1.38)	pCi/L		03/22/22 15:27	
92587304008	HGWC-18					
EPA 9315	Radium-226	0.394 ± 0.164 (0.209) C:97% T:NA	pCi/L		03/22/22 10:21	
EPA 9320	Radium-228	0.536 ± 0.618 (1.30) C:69% T:86%	pCi/L		03/08/22 18:59	
Total Radium Calculation	Total Radium	0.930 ± 0.782 (1.51)	pCi/L		03/22/22 15:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587304009	MW-21D					
EPA 9315	Radium-226	0.0336 ± 0.0842 (0.201) C:99% T:NA	pCi/L		03/22/22 10:21	
EPA 9320	Radium-228	0.429 ± 0.471 (0.981) C:73% T:93%	pCi/L		03/08/22 18:52	
Total Radium Calculation	Total Radium	0.463 ± 0.555 (1.18)	pCi/L		03/22/22 15:27	
92587304010	MW-22					
EPA 9315	Radium-226	0.0657 ± 0.0711 (0.137) C:101% T:NA	pCi/L		03/22/22 10:25	
EPA 9320	Radium-228	-0.375 ± 0.416 (1.05) C:71% T:99%	pCi/L		03/08/22 18:47	
Total Radium Calculation	Total Radium	0.0657 ± 0.487 (1.19)	pCi/L		03/22/22 15:27	
92587304011	MW-33					
EPA 9315	Radium-226	0.353 ± 0.147 (0.166) C:92% T:NA	pCi/L		03/22/22 10:25	
EPA 9320	Radium-228	0.614 ± 0.552 (1.12) C:69% T:94%	pCi/L		03/08/22 18:47	
Total Radium Calculation	Total Radium	0.967 ± 0.699 (1.29)	pCi/L		03/22/22 15:27	
92587304012	MW-35					
EPA 9315	Radium-226	0.211 ± 0.122 (0.178) C:83% T:NA	pCi/L		03/22/22 10:25	
EPA 9320	Radium-228	1.17 ± 0.577 (0.976) C:73% T:93%	pCi/L		03/08/22 18:47	
Total Radium Calculation	Total Radium	1.38 ± 0.699 (1.15)	pCi/L		03/22/22 15:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587304013	MW-37D					
EPA 9315	Radium-226	0.0655 ± 0.0803 (0.166) C:94% T:NA	pCi/L		03/22/22 10:25	
EPA 9320	Radium-228	0.279 ± 0.414 (0.891) C:72% T:91%	pCi/L		03/08/22 18:47	
Total Radium Calculation	Total Radium	0.345 ± 0.494 (1.06)	pCi/L		03/22/22 15:27	
92587304014	MW-51					
EPA 9315	Radium-226	0.0667 ± 0.0763 (0.152) C:94% T:NA	pCi/L		03/22/22 10:25	
EPA 9320	Radium-228	0.364 ± 0.466 (0.989) C:68% T:97%	pCi/L		03/08/22 18:47	
Total Radium Calculation	Total Radium	0.431 ± 0.542 (1.14)	pCi/L		03/22/22 15:32	
92587304015	DUP-2					
EPA 9315	Radium-226	0.0710 ± 0.0820 (0.165) C:90% T:NA	pCi/L		03/22/22 10:25	
EPA 9320	Radium-228	1.10 ± 0.591 (1.04) C:69% T:94%	pCi/L		03/08/22 18:47	
Total Radium Calculation	Total Radium	1.17 ± 0.673 (1.21)	pCi/L		03/22/22 15:32	
92587304022	HGWC-14					
EPA 9315	Radium-226	0.239 ± 0.143 (0.229) C:104% T:NA	pCi/L		03/08/22 08:22	
EPA 9320	Radium-228	0.107 ± 0.443 (0.995) C:80% T:85%	pCi/L		03/07/22 11:54	
Total Radium Calculation	Total Radium	0.346 ± 0.586 (1.22)	pCi/L		03/10/22 17:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587304023	MW-34D					
EPA 9315	Radium-226	0.240 ± 0.122 (0.156) C:117% T:NA	pCi/L		03/08/22 08:22	
EPA 9320	Radium-228	0.0566 ± 0.431 (0.989) C:81% T:89%	pCi/L		03/07/22 15:12	
Total Radium Calculation	Total Radium	0.297 ± 0.553 (1.15)	pCi/L		03/10/22 17:16	
92587304024	MW-23D					
EPA 9315	Radium-226	0.145 ± 0.109 (0.189) C:103% T:NA	pCi/L		03/08/22 08:22	
EPA 9320	Radium-228	0.774 ± 0.556 (1.09) C:79% T:85%	pCi/L		03/07/22 15:12	
Total Radium Calculation	Total Radium	0.919 ± 0.665 (1.28)	pCi/L		03/10/22 17:16	
92587304025	EB-2					
EPA 9315	Radium-226	0.0225 ± 0.0664 (0.166) C:96% T:NA	pCi/L		03/08/22 08:22	
EPA 9320	Radium-228	0.323 ± 0.352 (0.738) C:89% T:86%	pCi/L		03/07/22 15:12	
Total Radium Calculation	Total Radium	0.346 ± 0.418 (0.904)	pCi/L		03/10/22 17:16	
92587304026	FB-2					
EPA 9315	Radium-226	-0.0133 ± 0.0531 (0.169) C:99% T:NA	pCi/L		03/08/22 08:22	
EPA 9320	Radium-228	0.494 ± 0.345 (0.671) C:90% T:87%	pCi/L		03/07/22 15:12	
Total Radium Calculation	Total Radium	0.494 ± 0.398 (0.840)	pCi/L		03/10/22 17:16	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWA-4 **Lab ID: 92587304001** Collected: 02/07/22 14:28 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0978 ± 0.0780 (0.124) C:96% T:NA	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.128 ± 0.418 (1.02) C:67% T:99%	pCi/L	03/08/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0978 ± 0.496 (1.14)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWA-5 **Lab ID: 92587304002** Collected: 02/07/22 16:51 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.106 ± 0.0880 (0.151) C:92% T:NA	pCi/L	03/22/22 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.225 ± 0.441 (1.09) C:68% T:94%	pCi/L	03/08/22 18:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.106 ± 0.529 (1.24)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWA-6 **Lab ID: 92587304003** Collected: 02/07/22 16:31 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.144 ± 0.0933 (0.134) C:95% T:NA	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.202 ± 0.528 (1.18) C:66% T:91%	pCi/L	03/08/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.346 ± 0.621 (1.31)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWA-42D **Lab ID: 92587304004** Collected: 02/07/22 15:57 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0660 ± 0.0718 (0.137) C:96% T:NA	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.365 ± 0.402 (1.04) C:72% T:93%	pCi/L	03/08/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0660 ± 0.474 (1.18)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWC-15 **Lab ID: 92587304005** Collected: 02/08/22 13:49 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0242 ± 0.0494 (0.115) C:94% T:NA	pCi/L	03/22/22 10:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.000 ± 0.541 (1.26) C:73% T:87%	pCi/L	03/08/22 18:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0242 ± 0.590 (1.38)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWC-16 **Lab ID: 92587304006** Collected: 02/08/22 12:09 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.168 ± 0.0990 (0.136) C:95% T:NA	pCi/L	03/22/22 10:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0483 ± 0.505 (1.19) C:68% T:94%	pCi/L	03/08/22 18:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.168 ± 0.604 (1.33)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWC-17 **Lab ID: 92587304007** Collected: 02/08/22 10:33 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0786 ± 0.0718 (0.125) C:99% T:NA	pCi/L	03/22/22 10:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.922 ± 0.646 (1.25) C:68% T:91%	pCi/L	03/08/22 18:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.00 ± 0.718 (1.38)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWC-18 **Lab ID: 92587304008** Collected: 02/08/22 15:40 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.394 ± 0.164 (0.209) C:97% T:NA	pCi/L	03/22/22 10:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.536 ± 0.618 (1.30) C:69% T:86%	pCi/L	03/08/22 18:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.930 ± 0.782 (1.51)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-21D **Lab ID: 92587304009** Collected: 02/08/22 14:30 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0336 ± 0.0842 (0.201) C:99% T:NA	pCi/L	03/22/22 10:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.429 ± 0.471 (0.981) C:73% T:93%	pCi/L	03/08/22 18:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.463 ± 0.555 (1.18)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-22 **Lab ID: 92587304010** Collected: 02/08/22 16:59 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0657 ± 0.0711 (0.137) C:101% T:NA	pCi/L	03/22/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.375 ± 0.416 (1.05) C:71% T:99%	pCi/L	03/08/22 18:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0657 ± 0.487 (1.19)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-33 **Lab ID: 92587304011** Collected: 02/08/22 16:35 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.353 ± 0.147 (0.166) C:92% T:NA	pCi/L	03/22/22 10:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.614 ± 0.552 (1.12) C:69% T:94%	pCi/L	03/08/22 18:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.967 ± 0.699 (1.29)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-35 **Lab ID: 92587304012** Collected: 02/08/22 12:39 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.211 ± 0.122 (0.178) C:83% T:NA	pCi/L	03/22/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.17 ± 0.577 (0.976) C:73% T:93%	pCi/L	03/08/22 18:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.38 ± 0.699 (1.15)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-37D **Lab ID: 92587304013** Collected: 02/08/22 12:14 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0655 ± 0.0803 (0.166) C:94% T:NA	pCi/L	03/22/22 10:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.279 ± 0.414 (0.891) C:72% T:91%	pCi/L	03/08/22 18:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.345 ± 0.494 (1.06)	pCi/L	03/22/22 15:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-51 **Lab ID: 92587304014** Collected: 02/08/22 14:10 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0667 ± 0.0763 (0.152) C:94% T:NA	pCi/L	03/22/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.364 ± 0.466 (0.989) C:68% T:97%	pCi/L	03/08/22 18:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.431 ± 0.542 (1.14)	pCi/L	03/22/22 15:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: DUP-2 **Lab ID: 92587304015** Collected: 02/08/22 00:00 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0710 ± 0.0820 (0.165) C:90% T:NA	pCi/L	03/22/22 10:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.591 (1.04) C:69% T:94%	pCi/L	03/08/22 18:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.17 ± 0.673 (1.21)	pCi/L	03/22/22 15:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: HGWC-14 **Lab ID: 92587304022** Collected: 02/09/22 15:23 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.239 ± 0.143 (0.229) C:104% T:NA	pCi/L	03/08/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.107 ± 0.443 (0.995) C:80% T:85%	pCi/L	03/07/22 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.346 ± 0.586 (1.22)	pCi/L	03/10/22 17:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-34D **Lab ID: 92587304023** Collected: 02/09/22 13:50 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.240 ± 0.122 (0.156) C:117% T:NA	pCi/L	03/08/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0566 ± 0.431 (0.989) C:81% T:89%	pCi/L	03/07/22 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.297 ± 0.553 (1.15)	pCi/L	03/10/22 17:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: MW-23D **Lab ID: 92587304024** Collected: 02/10/22 09:49 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.145 ± 0.109 (0.189) C:103% T:NA	pCi/L	03/08/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.774 ± 0.556 (1.09) C:79% T:85%	pCi/L	03/07/22 15:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.919 ± 0.665 (1.28)	pCi/L	03/10/22 17:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: EB-2 **Lab ID: 92587304025** Collected: 02/10/22 10:25 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0225 ± 0.0664 (0.166) C:96% T:NA	pCi/L	03/08/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.323 ± 0.352 (0.738) C:89% T:86%	pCi/L	03/07/22 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.346 ± 0.418 (0.904)	pCi/L	03/10/22 17:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

Sample: FB-2 **Lab ID: 92587304026** Collected: 02/10/22 10:30 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0133 ± 0.0531 (0.169) C:99% T:NA	pCi/L	03/08/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.494 ± 0.345 (0.671) C:90% T:87%	pCi/L	03/07/22 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.494 ± 0.398 (0.840)	pCi/L	03/10/22 17:16	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

QC Batch: 486616

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587304001, 92587304002, 92587304003, 92587304004, 92587304005, 92587304006, 92587304007, 92587304008, 92587304009, 92587304010, 92587304011, 92587304012, 92587304013, 92587304014, 92587304015

METHOD BLANK: 2353263

Matrix: Water

Associated Lab Samples: 92587304001, 92587304002, 92587304003, 92587304004, 92587304005, 92587304006, 92587304007, 92587304008, 92587304009, 92587304010, 92587304011, 92587304012, 92587304013, 92587304014, 92587304015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00708 ± 0.0659 (0.175) C:97% T:NA	pCi/L	03/22/22 09:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

QC Batch: 486611

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587304022, 92587304023, 92587304024, 92587304025, 92587304026

METHOD BLANK: 2353259

Matrix: Water

Associated Lab Samples: 92587304022, 92587304023, 92587304024, 92587304025, 92587304026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0325 ± 0.0552 (0.191) C:101% T:NA	pCi/L	03/08/22 08:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

QC Batch: 486656

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587304022, 92587304023, 92587304024, 92587304025, 92587304026

METHOD BLANK: 2353491

Matrix: Water

Associated Lab Samples: 92587304022, 92587304023, 92587304024, 92587304025, 92587304026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.534 ± 0.356 (0.681) C:77% T:89%	pCi/L	03/07/22 11:50	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

QC Batch: 486660

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587304001, 92587304002, 92587304003, 92587304004, 92587304005, 92587304006, 92587304007, 92587304008, 92587304009, 92587304010, 92587304011, 92587304012, 92587304013, 92587304014, 92587304015

METHOD BLANK: 2353496

Matrix: Water

Associated Lab Samples: 92587304001, 92587304002, 92587304003, 92587304004, 92587304005, 92587304006, 92587304007, 92587304008, 92587304009, 92587304010, 92587304011, 92587304012, 92587304013, 92587304014, 92587304015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0198 ± 0.286 (0.668) C:70% T:93%	pCi/L	03/08/22 15:19	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

QC Batch: 488988

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 2364929

Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.257 ± 0.372 (0.800) C:69% T:81%	pCi/L	03/15/22 15:00	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HAMMOND AP-2 RAD

Pace Project No.: 92587304

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587304001	HGWA-4	EPA 9315	486616		
92587304002	HGWA-5	EPA 9315	486616		
92587304003	HGWA-6	EPA 9315	486616		
92587304004	HGWA-42D	EPA 9315	486616		
92587304005	HGWC-15	EPA 9315	486616		
92587304006	HGWC-16	EPA 9315	486616		
92587304007	HGWC-17	EPA 9315	486616		
92587304008	HGWC-18	EPA 9315	486616		
92587304009	MW-21D	EPA 9315	486616		
92587304010	MW-22	EPA 9315	486616		
92587304011	MW-33	EPA 9315	486616		
92587304012	MW-35	EPA 9315	486616		
92587304013	MW-37D	EPA 9315	486616		
92587304014	MW-51	EPA 9315	486616		
92587304015	DUP-2	EPA 9315	486616		
92587304022	HGWC-14	EPA 9315	486611		
92587304023	MW-34D	EPA 9315	486611		
92587304024	MW-23D	EPA 9315	486611		
92587304025	EB-2	EPA 9315	486611		
92587304026	FB-2	EPA 9315	486611		
92587304001	HGWA-4	EPA 9320	486660		
92587304002	HGWA-5	EPA 9320	486660		
92587304003	HGWA-6	EPA 9320	486660		
92587304004	HGWA-42D	EPA 9320	486660		
92587304005	HGWC-15	EPA 9320	486660		
92587304006	HGWC-16	EPA 9320	486660		
92587304007	HGWC-17	EPA 9320	486660		
92587304008	HGWC-18	EPA 9320	486660		
92587304009	MW-21D	EPA 9320	486660		
92587304010	MW-22	EPA 9320	486660		
92587304011	MW-33	EPA 9320	486660		
92587304012	MW-35	EPA 9320	486660		
92587304013	MW-37D	EPA 9320	486660		
92587304014	MW-51	EPA 9320	486660		
92587304015	DUP-2	EPA 9320	486660		
92587304022	HGWC-14	EPA 9320	486656		
92587304023	MW-34D	EPA 9320	486656		
92587304024	MW-23D	EPA 9320	486656		
92587304025	EB-2	EPA 9320	486656		
92587304026	FB-2	EPA 9320	486656		
92587304001	HGWA-4	Total Radium Calculation	492151		
92587304002	HGWA-5	Total Radium Calculation	492151		
92587304003	HGWA-6	Total Radium Calculation	492151		
92587304004	HGWA-42D	Total Radium Calculation	492151		
92587304005	HGWC-15	Total Radium Calculation	492151		
92587304006	HGWC-16	Total Radium Calculation	492151		
92587304007	HGWC-17	Total Radium Calculation	492151		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2 RAD
Pace Project No.: 92587304


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587304008	HGWC-18	Total Radium Calculation	492151		
92587304009	MW-21D	Total Radium Calculation	492151		
92587304010	MW-22	Total Radium Calculation	492151		
92587304011	MW-33	Total Radium Calculation	492151		
92587304012	MW-35	Total Radium Calculation	492151		
92587304013	MW-37D	Total Radium Calculation	492151		
92587304014	MW-51	Total Radium Calculation	492154		
92587304015	DUP-2	Total Radium Calculation	492154		
92587304022	HGWC-14	Total Radium Calculation	489606		
92587304023	MW-34D	Total Radium Calculation	489606		
92587304024	MW-23D	Total Radium Calculation	489606		
92587304025	EB-2	Total Radium Calculation	489606		
92587304026	FB-2	Total Radium Calculation	489606		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt Client Name: GIA Power Project #: **WO# : 92587322**
 Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____
 **92587322**

Custody Seal Present? Yes No Seals Intact? Yes No
 Date/Initials Person Examining Contents: JPE 2/9/22

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None
 Biological Tissue Frozen? Yes No N/A

Cooler Temp: 2.4 Correction Factor: +1.2 Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.6
 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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	9.
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: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:
GA Power

Project #: **WO#: 92586342**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/3/22*
TJW

Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Biological Tissue Frozen?
 Yes No N/A

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 2.6

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>W</u>	9.
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: _____



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

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:
GA Power

Project #:
WO# : 92587322
 PM: NMG Due Date: 02/17/22
 CLIENT: GA-GA Power

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

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 4.2 Correction Factor: Add/Subtract (°C) ±0.2

Cooler Temp Corrected (°C): 4.4

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

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

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

Date/Initials Person Examining Contents: MT 2/11/22

Biological Tissue Frozen? Yes No N/A

			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 CQC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:			
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: _____



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JC2
Date: 3/1/2022
Worklist: 65294
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2353259
MB concentration:	-0.033
M/B Counting Uncertainty:	0.055
MB MDC:	0.191
MB Numerical Performance Indicator:	-1.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCSD65294	LCSD65294
Count Date:	3/8/2022	3/8/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.506
Target Conc. (pCi/L, g, F):	4.777	4.752
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.910	4.441
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.508	0.466
Numerical Performance Indicator:	0.51	-1.30
Percent Recovery:	102.79%	93.46%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCSD65294	92587080025
Sample I.D.:	LCSD65294	92587080025
Duplicate Sample I.D.:	LCSD65294	92587080025DUP
Sample Result (pCi/L, g, F):	4.910	0.708
Sample Result Counting Uncertainty (pCi/L, g, F):	0.508	0.212
Sample Duplicate Result (pCi/L, g, F):	4.441	0.789
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.466	0.203
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.334	-0.540
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.51%	10.80%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JSM
Date: 3/3/2022
Worklist: 65309
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2353491	
MB concentration:	0.534	
M/B 2 Sigma CSU:	0.356	
MB MDC:	0.681	
MB Numerical Performance Indicator:	2.94	
MB Status vs Numerical Indicator:	Warning	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCSD65309	LCSD65309
Count Date:	3/7/2022	3/7/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.090	36.090
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.805
Target Conc. (pCi/L, g, F):	4.454	4.482
Uncertainty (Calculated):	0.218	0.220
Result (pCi/L, g, F):	4.392	4.287
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.963	0.935
Numerical Performance Indicator:	-0.12	-0.40
Percent Recovery:	98.60%	95.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCSD65309	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD65309	
Sample Result (pCi/L, g, F):	4.392	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.963	
Sample Duplicate Result (pCi/L, g, F):	4.287	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.935	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.153	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.03%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

August 2022

October 07, 2022

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

RE: Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 04, 2022 and August 12, 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.

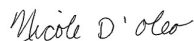
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Issued on 10/7/22 to correctly report the requested analyte lists.

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: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power

Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwest, Geosyntec
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618822001	HGWA-4	Water	08/02/22 15:44	08/04/22 12:30
92618822002	HGWA-42D	Water	08/09/22 17:10	08/10/22 12:30
92618822003	HGWC-14	Water	08/11/22 13:52	08/12/22 11:25
92618822004	HGWC-15	Water	08/11/22 13:00	08/12/22 11:25
92618822005	MW-21D	Water	08/11/22 09:35	08/12/22 11:25
92618822006	MW-22	Water	08/11/22 09:48	08/12/22 11:25
92618822007	MW-23D	Water	08/11/22 11:47	08/12/22 11:25
92618822008	MW-35	Water	08/11/22 09:19	08/12/22 11:25
92618822009	MW-51	Water	08/11/22 11:20	08/12/22 11:25
92618822010	EB-2	Water	08/11/22 13:25	08/12/22 11:25
92618822011	FB-2	Water	08/11/22 13:40	08/12/22 11:25
92618822013	HGWA-5	Water	08/10/22 09:57	08/12/22 11:25
92618822014	HGWA-6	Water	08/10/22 09:10	08/12/22 11:25
92618822015	HGWC-16	Water	08/10/22 16:01	08/12/22 11:25
92618822016	HGWC-17	Water	08/10/22 14:01	08/12/22 11:25
92618822017	HGWC-18	Water	08/10/22 11:57	08/12/22 11:25
92618822018	MW-33	Water	08/10/22 16:10	08/12/22 11:25
92618822019	MW-34D	Water	08/10/22 14:00	08/12/22 11:25
92618822020	MW-37D	Water	08/10/22 16:30	08/12/22 11:25
92618822021	DUP-2	Water	08/10/22 00:00	08/12/22 11:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618822001	HGWA-4	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618822002	HGWA-42D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618822003	HGWC-14	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618822004	HGWC-15	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618822005	MW-21D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618822006	MW-22	EPA 6010D	KH	6
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618822007	MW-23D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92618822008	MW-35	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92618822009	MW-51	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92618822010	EB-2	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92618822011	FB-2	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618822013	HGWA-5	SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92618822014	HGWA-6	SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92618822015	HGWC-16	SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92618822016	HGWC-17	SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92618822017	HGWC-18	SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618822018	MW-33	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	DRB, KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
92618822019	MW-34D	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
92618822020	MW-37D	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
92618822021	DUP-2	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	YEG	2
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822001	HGWA-4					
	Performed by	CUSTOMER			08/05/22 12:38	
	pH	4.86	Std. Units		08/05/22 12:38	
EPA 6010D	Iron	0.039J	mg/L	0.040	08/11/22 14:53	
EPA 6010D	Manganese	0.014J	mg/L	0.040	08/11/22 14:53	
EPA 6010D	Potassium	0.17J	mg/L	0.20	08/11/22 14:53	
EPA 6010D	Sodium	7.9	mg/L	1.0	08/11/22 14:53	
EPA 6010D	Calcium	6.0	mg/L	1.0	08/11/22 14:53	
EPA 6010D	Magnesium	0.68	mg/L	0.050	08/11/22 14:53	
EPA 6020B	Barium	0.041	mg/L	0.0050	08/10/22 19:27	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	08/10/22 19:27	
EPA 6020B	Boron	0.020J	mg/L	0.040	08/10/22 19:27	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	08/10/22 19:27	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	08/10/22 19:27	
SM 2540C-2015	Total Dissolved Solids	48.0	mg/L	10.0	08/09/22 10:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.3	mg/L	5.0	08/09/22 22:21	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.3	mg/L	5.0	08/09/22 22:21	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	08/12/22 15:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	08/12/22 15:49	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	08/12/22 15:49	
92618822002	HGWA-42D					
	Performed by	Customer			08/10/22 16:32	
	pH	7.58	Std. Units		08/10/22 16:32	
EPA 6010D	Iron	0.40	mg/L	0.040	08/15/22 18:33	
EPA 6010D	Manganese	0.025J	mg/L	0.040	08/15/22 18:33	
EPA 6010D	Potassium	0.45	mg/L	0.20	08/15/22 18:33	
EPA 6010D	Sodium	8.3	mg/L	1.0	08/15/22 18:33	
EPA 6010D	Calcium	44.1	mg/L	1.0	08/15/22 18:33	
EPA 6010D	Magnesium	7.1	mg/L	0.050	08/15/22 18:33	
EPA 6020B	Barium	0.20	mg/L	0.0050	08/17/22 19:41	
EPA 6020B	Boron	0.055	mg/L	0.040	08/17/22 19:41	
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/17/22 19:41	
SM 2540C-2015	Total Dissolved Solids	182	mg/L	10.0	08/11/22 10:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	154	mg/L	5.0	08/19/22 15:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	154	mg/L	5.0	08/19/22 15:38	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	08/18/22 09:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/18/22 09:59	
EPA 300.0 Rev 2.1 1993	Sulfate	11.2	mg/L	1.0	08/18/22 09:59	
92618822003	HGWC-14					
	Performed by	Customer			08/17/22 13:04	
	pH	4.93	Std. Units		08/17/22 13:04	
EPA 6010D	Potassium	12.1	mg/L	1.0	08/19/22 12:47	
EPA 6010D	Sodium	9.9	mg/L	5.0	08/19/22 12:47	
EPA 6010D	Calcium	519	mg/L	5.0	08/19/22 12:47	
EPA 6010D	Iron	1.0	mg/L	0.040	08/18/22 21:03	
EPA 6010D	Manganese	4.2	mg/L	0.040	08/18/22 21:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822003	HGWC-14					
EPA 6010D	Magnesium	49.8	mg/L	0.050	08/18/22 21:03	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	08/26/22 15:08	
EPA 6020B	Arsenic	0.0060	mg/L	0.0050	08/26/22 15:08	
EPA 6020B	Barium	0.017	mg/L	0.0050	08/26/22 15:08	
EPA 6020B	Beryllium	0.00039J	mg/L	0.00050	08/26/22 15:08	
EPA 6020B	Boron	8.8	mg/L	0.20	08/27/22 14:22	
EPA 6020B	Cobalt	0.037	mg/L	0.0050	08/26/22 15:08	
EPA 6020B	Selenium	0.0037J	mg/L	0.0050	08/26/22 15:08	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	08/26/22 15:08	
SM 2540C-2015	Total Dissolved Solids	1060	mg/L	50.0	08/16/22 14:16	
EPA 300.0 Rev 2.1 1993	Chloride	147	mg/L	24.0	08/21/22 11:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	08/21/22 05:44	
EPA 300.0 Rev 2.1 1993	Sulfate	1200	mg/L	24.0	08/21/22 11:16	
92618822004	HGWC-15					
	Performed by	Customer			08/17/22 13:05	
	pH	6.29	Std. Units		08/17/22 13:05	
EPA 6010D	Manganese	10.7	mg/L	0.040	08/18/22 21:08	
EPA 6010D	Calcium	210	mg/L	1.0	08/18/22 21:08	
EPA 6010D	Magnesium	35.8	mg/L	0.050	08/18/22 21:08	
EPA 6010D	Potassium	0.91	mg/L	0.20	08/19/22 12:52	
EPA 6010D	Sodium	12.4	mg/L	1.0	08/19/22 12:52	
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	08/26/22 15:14	
EPA 6020B	Barium	0.015	mg/L	0.0050	08/26/22 15:14	
EPA 6020B	Boron	2.1	mg/L	0.20	08/27/22 14:28	
EPA 6020B	Cadmium	0.00095	mg/L	0.00050	08/26/22 15:14	
EPA 6020B	Cobalt	0.0088	mg/L	0.0050	08/26/22 15:14	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	08/26/22 15:14	
SM 2540C-2015	Total Dissolved Solids	940	mg/L	20.0	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	152	mg/L	5.0	08/22/22 15:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	152	mg/L	5.0	08/22/22 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	89.2	mg/L	1.0	08/21/22 05:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	08/21/22 05:58	
EPA 300.0 Rev 2.1 1993	Sulfate	365	mg/L	7.0	08/21/22 11:31	
92618822005	MW-21D					
	Performed by	Customer			08/17/22 13:06	
	pH	6.96	Std. Units		08/17/22 13:06	
EPA 6010D	Iron	21.4	mg/L	0.040	08/19/22 20:11	M1
EPA 6010D	Manganese	1.2	mg/L	0.040	08/19/22 20:11	
EPA 6010D	Potassium	1.4	mg/L	0.20	08/19/22 20:11	
EPA 6010D	Sodium	16.1	mg/L	1.0	08/19/22 20:11	M1
EPA 6010D	Magnesium	71.6	mg/L	0.050	08/19/22 20:11	M1
EPA 6010D	Calcium	430	mg/L	10.0	08/22/22 16:46	M1
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	08/26/22 15:20	
EPA 6020B	Barium	0.037	mg/L	0.0050	08/26/22 15:20	
EPA 6020B	Boron	5.0	mg/L	0.20	08/27/22 14:34	
EPA 6020B	Lithium	0.022J	mg/L	0.030	08/26/22 15:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822005	MW-21D					
EPA 6020B	Molybdenum	0.023	mg/L	0.010	08/26/22 15:20	
SM 2540C-2015	Total Dissolved Solids	356	mg/L	20.0	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	51.5	mg/L	5.0	08/22/22 15:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	51.5	mg/L	5.0	08/22/22 15:47	
EPA 300.0 Rev 2.1 1993	Chloride	216	mg/L	18.0	08/21/22 11:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	08/21/22 06:42	
EPA 300.0 Rev 2.1 1993	Sulfate	910	mg/L	18.0	08/21/22 11:45	
92618822006	MW-22					
	Performed by	Customer			08/17/22 13:06	
	pH	5.30	Std. Units		08/17/22 13:06	
EPA 6010D	Iron	0.026J	mg/L	0.040	08/19/22 20:31	
EPA 6010D	Manganese	11.6	mg/L	0.040	08/19/22 20:31	
EPA 6010D	Potassium	0.74	mg/L	0.20	08/19/22 20:31	
EPA 6010D	Sodium	13.2	mg/L	1.0	08/19/22 20:31	
EPA 6010D	Magnesium	42.4	mg/L	0.050	08/19/22 20:31	
EPA 6010D	Calcium	198	mg/L	10.0	08/22/22 17:00	
EPA 6020B	Barium	0.014	mg/L	0.0050	08/26/22 15:26	
EPA 6020B	Boron	2.5	mg/L	0.20	08/27/22 14:40	
EPA 6020B	Cadmium	0.0020	mg/L	0.00050	08/26/22 15:26	
EPA 6020B	Cobalt	0.015	mg/L	0.0050	08/26/22 15:26	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	08/26/22 15:26	
EPA 7470A	Mercury	0.00016J	mg/L	0.00020	08/25/22 16:04	
SM 2540C-2015	Total Dissolved Solids	960	mg/L	100	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	43.7	mg/L	5.0	08/22/22 15:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	43.7	mg/L	5.0	08/22/22 15:54	
EPA 300.0 Rev 2.1 1993	Chloride	125	mg/L	9.0	08/21/22 12:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	08/21/22 06:56	
EPA 300.0 Rev 2.1 1993	Sulfate	472	mg/L	9.0	08/21/22 12:28	
92618822007	MW-23D					
	Performed by	Customer			08/17/22 13:06	
	pH	6.57	Std. Units		08/17/22 13:06	
EPA 6010D	Calcium	315	mg/L	10.0	08/22/22 17:05	
EPA 6010D	Iron	0.12	mg/L	0.040	08/19/22 20:36	
EPA 6010D	Manganese	6.6	mg/L	0.040	08/19/22 20:36	
EPA 6010D	Potassium	2.0	mg/L	0.20	08/19/22 20:36	
EPA 6010D	Sodium	13.2	mg/L	1.0	08/19/22 20:36	
EPA 6010D	Magnesium	33.8	mg/L	0.050	08/19/22 20:36	
EPA 6020B	Barium	0.050	mg/L	0.0050	08/26/22 15:32	
EPA 6020B	Boron	3.3	mg/L	0.20	08/27/22 14:46	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	08/26/22 15:32	
EPA 6020B	Cobalt	0.00088J	mg/L	0.0050	08/26/22 15:32	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	08/26/22 15:32	
EPA 6020B	Molybdenum	0.0039J	mg/L	0.010	08/26/22 15:32	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	08/25/22 16:07	
SM 2540C-2015	Total Dissolved Solids	2700	mg/L	100	08/16/22 14:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	260	mg/L	5.0	08/22/22 16:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822007	MW-23D					
SM 2320B-2011	Alkalinity, Total as CaCO ₃	260	mg/L	5.0	08/22/22 16:25	
EPA 300.0 Rev 2.1 1993	Chloride	124	mg/L	9.0	08/22/22 20:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	08/22/22 02:34	
EPA 300.0 Rev 2.1 1993	Sulfate	389	mg/L	9.0	08/22/22 20:44	
92618822008	MW-35					
	Performed by	Customer			08/17/22 13:06	
	pH	4.86	Std. Units		08/17/22 13:06	
EPA 6010D	Calcium	499	mg/L	10.0	08/22/22 17:10	
EPA 6010D	Iron	0.062	mg/L	0.040	08/19/22 20:50	
EPA 6010D	Manganese	9.5	mg/L	0.040	08/19/22 20:50	
EPA 6010D	Potassium	8.4	mg/L	0.20	08/19/22 20:50	
EPA 6010D	Sodium	11.8	mg/L	1.0	08/19/22 20:50	
EPA 6010D	Magnesium	66.3	mg/L	0.050	08/19/22 20:50	
EPA 6020B	Barium	0.022J	mg/L	0.025	08/26/22 17:31	D3
EPA 6020B	Beryllium	0.00066J	mg/L	0.0025	08/26/22 17:31	D3
EPA 6020B	Boron	9.6	mg/L	0.20	08/26/22 17:31	M1
EPA 6020B	Cadmium	0.0013J	mg/L	0.0025	08/26/22 17:31	D3
EPA 6020B	Cobalt	0.082	mg/L	0.025	08/26/22 17:31	
EPA 6020B	Selenium	0.0089J	mg/L	0.025	08/26/22 17:31	D3
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/25/22 16:09	
SM 2540C-2015	Total Dissolved Solids	1070	mg/L	50.0	08/16/22 14:18	
EPA 300.0 Rev 2.1 1993	Chloride	172	mg/L	24.0	08/22/22 20:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	08/22/22 02:49	
EPA 300.0 Rev 2.1 1993	Sulfate	1020	mg/L	24.0	08/22/22 20:58	
92618822009	MW-51					
	Performed by	Customer			08/17/22 13:07	
	pH	6.37	Std. Units		08/17/22 13:07	
EPA 6010D	Iron	1.1	mg/L	0.040	08/19/22 20:55	
EPA 6010D	Manganese	7.6	mg/L	0.040	08/19/22 20:55	
EPA 6010D	Potassium	8.2	mg/L	0.20	08/19/22 20:55	
EPA 6010D	Sodium	20.8	mg/L	1.0	08/19/22 20:55	
EPA 6010D	Magnesium	54.7	mg/L	0.050	08/19/22 20:55	
EPA 6010D	Calcium	521	mg/L	10.0	08/22/22 17:14	
EPA 6020B	Arsenic	0.0043J	mg/L	0.0050	08/26/22 17:55	
EPA 6020B	Barium	0.028	mg/L	0.0050	08/26/22 17:55	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	08/26/22 17:55	
EPA 6020B	Boron	8.2	mg/L	0.040	08/26/22 17:55	
EPA 6020B	Cadmium	0.00045J	mg/L	0.00050	08/26/22 17:55	
EPA 6020B	Cobalt	0.027	mg/L	0.0050	08/26/22 17:55	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	08/26/22 17:55	
EPA 6020B	Selenium	0.0023J	mg/L	0.0050	08/26/22 17:55	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	08/25/22 16:12	
SM 2540C-2015	Total Dissolved Solids	2080	mg/L	100	08/16/22 14:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO ₃)	89.8	mg/L	5.0	08/22/22 17:18	
SM 2320B-2011	Alkalinity, Total as CaCO ₃	89.8	mg/L	5.0	08/22/22 17:18	
EPA 300.0 Rev 2.1 1993	Chloride	144	mg/L	23.0	08/22/22 21:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822009	MW-51					
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/22/22 03:04	
EPA 300.0 Rev 2.1 1993	Sulfate	979	mg/L	23.0	08/22/22 21:13	
92618822010	EB-2					
EPA 6020B	Boron	0.074	mg/L	0.040	08/26/22 18:01	
92618822011	FB-2					
EPA 6020B	Boron	0.029J	mg/L	0.040	08/26/22 18:07	
92618822013	HGWA-5					
	Performed by	Customer			08/17/22 13:09	
	pH	6.22	Std. Units		08/17/22 13:09	
EPA 6010D	Iron	1.5	mg/L	0.040	08/19/22 21:52	
EPA 6010D	Manganese	0.061	mg/L	0.040	08/19/22 21:52	
EPA 6010D	Potassium	0.70	mg/L	0.20	08/19/22 21:52	
EPA 6010D	Sodium	6.1	mg/L	1.0	08/19/22 21:52	
EPA 6010D	Calcium	27.4	mg/L	1.0	08/19/22 21:52	
EPA 6010D	Magnesium	5.4	mg/L	0.050	08/19/22 21:52	
EPA 6020B	Barium	0.053	mg/L	0.0050	08/26/22 19:01	
EPA 6020B	Boron	0.011J	mg/L	0.040	08/26/22 19:01	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	08/26/22 19:01	
SM 2540C-2015	Total Dissolved Solids	134	mg/L	10.0	08/16/22 14:15	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	84.3	mg/L	5.0	08/22/22 13:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	84.3	mg/L	5.0	08/22/22 13:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	08/22/22 06:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	08/22/22 06:37	
EPA 300.0 Rev 2.1 1993	Sulfate	19.7	mg/L	1.0	08/22/22 06:37	
92618822014	HGWA-6					
	Performed by	Customer			08/17/22 13:13	
	pH	7.53	Std. Units		08/17/22 13:13	
EPA 6010D	Iron	0.33	mg/L	0.040	08/19/22 21:57	
EPA 6010D	Manganese	0.083	mg/L	0.040	08/19/22 21:57	
EPA 6010D	Potassium	0.57	mg/L	0.20	08/19/22 21:57	
EPA 6010D	Sodium	7.7	mg/L	1.0	08/19/22 21:57	
EPA 6010D	Calcium	55.7	mg/L	1.0	08/19/22 21:57	
EPA 6010D	Magnesium	9.8	mg/L	0.050	08/19/22 21:57	
EPA 6020B	Barium	0.18	mg/L	0.0050	08/26/22 19:07	
EPA 6020B	Boron	0.015J	mg/L	0.040	08/26/22 19:07	
EPA 6020B	Lithium	0.010J	mg/L	0.030	08/26/22 19:07	
SM 2540C-2015	Total Dissolved Solids	217	mg/L	10.0	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	08/22/22 13:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	08/22/22 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/22/22 06:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	08/22/22 06:52	
EPA 300.0 Rev 2.1 1993	Sulfate	34.0	mg/L	1.0	08/22/22 06:52	
92618822015	HGWC-16					
	Performed by	Customer			08/17/22 13:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822015	HGWC-16					
	pH	7.09	Std. Units		08/17/22 13:13	
EPA 6010D	Iron	1.4	mg/L	0.040	08/19/22 22:02	
EPA 6010D	Manganese	0.045	mg/L	0.040	08/19/22 22:02	
EPA 6010D	Potassium	0.82	mg/L	0.20	08/19/22 22:02	
EPA 6010D	Sodium	10.4	mg/L	1.0	08/19/22 22:02	
EPA 6010D	Calcium	207	mg/L	1.0	08/19/22 22:02	
EPA 6010D	Magnesium	16.6	mg/L	0.050	08/19/22 22:02	
EPA 6020B	Barium	0.10	mg/L	0.0050	08/26/22 19:13	
EPA 6020B	Boron	2.2	mg/L	0.20	08/27/22 14:58	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	08/26/22 19:13	
SM 2540C-2015	Total Dissolved Solids	894	mg/L	20.0	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	208	mg/L	5.0	08/22/22 16:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	208	mg/L	5.0	08/22/22 16:09	
EPA 300.0 Rev 2.1 1993	Chloride	98.3	mg/L	1.0	08/22/22 07:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.054J	mg/L	0.10	08/22/22 07:07	
EPA 300.0 Rev 2.1 1993	Sulfate	206	mg/L	5.0	08/22/22 21:57	
92618822016	HGWC-17					
	Performed by	Customer			08/17/22 13:13	
	pH	6.29	Std. Units		08/17/22 13:13	
EPA 6010D	Calcium	316	mg/L	10.0	08/22/22 17:19	
EPA 6010D	Iron	0.11	mg/L	0.040	08/19/22 22:07	
EPA 6010D	Manganese	3.4	mg/L	0.040	08/19/22 22:07	
EPA 6010D	Potassium	2.8	mg/L	0.20	08/19/22 22:07	
EPA 6010D	Sodium	15.1	mg/L	1.0	08/19/22 22:07	
EPA 6010D	Magnesium	33.7	mg/L	0.050	08/19/22 22:07	
EPA 6020B	Barium	0.027	mg/L	0.0050	08/26/22 19:19	
EPA 6020B	Beryllium	0.000060J	mg/L	0.00050	08/26/22 19:19	
EPA 6020B	Boron	6.9	mg/L	0.20	08/27/22 15:04	
EPA 6020B	Cobalt	0.012	mg/L	0.0050	08/26/22 19:19	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	08/26/22 19:19	
SM 2540C-2015	Total Dissolved Solids	1390	mg/L	50.0	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	213	mg/L	5.0	08/22/22 16:17	
SM 2320B-2011	Alkalinity, Total as CaCO3	213	mg/L	5.0	08/22/22 16:17	
EPA 300.0 Rev 2.1 1993	Chloride	148	mg/L	10.0	08/22/22 23:16	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	08/22/22 08:42	
EPA 300.0 Rev 2.1 1993	Sulfate	423	mg/L	10.0	08/22/22 23:16	M1
92618822017	HGWC-18					
	Performed by	Customer			08/17/22 13:14	
	pH	4.41	Std. Units		08/17/22 13:14	
EPA 6010D	Iron	0.085	mg/L	0.040	08/19/22 22:12	
EPA 6010D	Manganese	3.5	mg/L	0.040	08/19/22 22:12	
EPA 6010D	Potassium	11.1	mg/L	0.20	08/19/22 22:12	
EPA 6010D	Sodium	11.8	mg/L	1.0	08/19/22 22:12	
EPA 6010D	Magnesium	42.8	mg/L	0.050	08/19/22 22:12	
EPA 6010D	Calcium	433	mg/L	10.0	08/22/22 17:24	
EPA 6020B	Arsenic	0.0058	mg/L	0.0050	08/26/22 19:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822017	HGWC-18					
EPA 6020B	Barium	0.026	mg/L	0.0050	08/26/22 19:25	
EPA 6020B	Beryllium	0.0032	mg/L	0.00050	08/26/22 19:25	
EPA 6020B	Boron	8.4	mg/L	0.20	08/27/22 15:10	
EPA 6020B	Cadmium	0.0017	mg/L	0.00050	08/26/22 19:25	
EPA 6020B	Cobalt	0.16	mg/L	0.0050	08/26/22 19:25	
EPA 6020B	Lead	0.0011	mg/L	0.0010	08/26/22 19:25	
EPA 6020B	Lithium	0.012J	mg/L	0.030	08/26/22 19:25	
EPA 6020B	Selenium	0.0096	mg/L	0.0050	08/26/22 19:25	
SM 2540C-2015	Total Dissolved Solids	1890	mg/L	100	08/16/22 14:16	
EPA 300.0 Rev 2.1 1993	Chloride	95.2	mg/L	22.0	08/23/22 00:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	08/22/22 09:26	
EPA 300.0 Rev 2.1 1993	Sulfate	946	mg/L	22.0	08/23/22 00:00	
92618822018	MW-33					
	Performed by	Customer			08/17/22 13:14	
	pH	4.36	Std. Units		08/17/22 13:14	
EPA 6010D	Iron	1.1	mg/L	0.040	08/19/22 22:17	
EPA 6010D	Manganese	3.7	mg/L	0.040	08/19/22 22:17	
EPA 6010D	Potassium	11.6	mg/L	0.20	08/19/22 22:17	
EPA 6010D	Sodium	9.9	mg/L	1.0	08/19/22 22:17	
EPA 6010D	Magnesium	44.0	mg/L	0.050	08/19/22 22:17	
EPA 6010D	Calcium	498	mg/L	5.0	08/19/22 22:21	
EPA 6020B	Barium	0.020J	mg/L	0.025	08/27/22 15:28	
EPA 6020B	Beryllium	0.00080	mg/L	0.00050	08/26/22 19:43	
EPA 6020B	Boron	8.0	mg/L	0.20	08/27/22 15:28	
EPA 6020B	Cobalt	0.046	mg/L	0.025	08/27/22 15:28	
EPA 6020B	Lithium	0.00090J	mg/L	0.030	08/26/22 19:43	
EPA 6020B	Selenium	0.0070J	mg/L	0.025	08/27/22 15:28	
SM 2540C-2015	Total Dissolved Solids	2050	mg/L	100	08/16/22 14:16	
EPA 300.0 Rev 2.1 1993	Chloride	120	mg/L	24.0	08/23/22 00:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	08/22/22 09:41	
EPA 300.0 Rev 2.1 1993	Sulfate	1010	mg/L	24.0	08/23/22 00:15	
92618822019	MW-34D					
	Performed by	Customer			08/17/22 13:14	
	pH	7.00	Std. Units		08/17/22 13:14	
EPA 6010D	Calcium	585	mg/L	10.0	08/22/22 17:43	M1
EPA 6010D	Iron	0.081	mg/L	0.040	08/19/22 22:45	
EPA 6010D	Manganese	5.1	mg/L	0.040	08/19/22 22:45	
EPA 6010D	Potassium	11.9	mg/L	0.20	08/19/22 22:45	
EPA 6010D	Sodium	11.7	mg/L	1.0	08/19/22 22:45	
EPA 6010D	Magnesium	54.4	mg/L	0.050	08/19/22 22:45	M1
EPA 6020B	Arsenic	0.0045J	mg/L	0.0050	08/26/22 19:49	
EPA 6020B	Barium	0.046	mg/L	0.0050	08/26/22 19:49	
EPA 6020B	Boron	10.2	mg/L	0.40	08/27/22 15:34	
EPA 6020B	Cadmium	0.00041J	mg/L	0.00050	08/26/22 19:49	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	08/26/22 19:49	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	08/26/22 19:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618822019	MW-34D					
SM 2540C-2015	Total Dissolved Solids	2310	mg/L	100	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	89.0	mg/L	5.0	08/22/22 14:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	89.0	mg/L	5.0	08/22/22 14:41	
EPA 300.0 Rev 2.1 1993	Chloride	185	mg/L	25.0	08/23/22 00:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	08/22/22 09:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1040	mg/L	25.0	08/23/22 00:29	
92618822020	MW-37D					
	Performed by	Customer			08/17/22 13:14	
	pH	7.47	Std. Units		08/17/22 13:14	
EPA 6010D	Iron	0.77	mg/L	0.040	08/19/22 23:05	
EPA 6010D	Manganese	0.066	mg/L	0.040	08/19/22 23:05	
EPA 6010D	Potassium	0.92	mg/L	0.20	08/19/22 23:05	
EPA 6010D	Sodium	28.8	mg/L	1.0	08/19/22 23:05	
EPA 6010D	Calcium	113	mg/L	1.0	08/19/22 23:05	
EPA 6010D	Magnesium	21.9	mg/L	0.050	08/19/22 23:05	
EPA 6020B	Barium	0.11	mg/L	0.0050	08/26/22 19:54	
EPA 6020B	Boron	0.11	mg/L	0.040	08/27/22 15:40	
EPA 6020B	Lithium	0.025J	mg/L	0.030	08/26/22 19:54	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	08/26/22 19:54	
SM 2540C-2015	Total Dissolved Solids	2770	mg/L	100	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	147	mg/L	5.0	08/22/22 14:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	147	mg/L	5.0	08/22/22 14:49	
EPA 300.0 Rev 2.1 1993	Chloride	84.8	mg/L	3.0	08/23/22 00:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.084J	mg/L	0.10	08/22/22 10:11	
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	08/23/22 00:44	
92618822021	DUP-2					
EPA 6010D	Iron	0.061	mg/L	0.040	08/19/22 23:10	
EPA 6010D	Manganese	3.5	mg/L	0.040	08/19/22 23:10	
EPA 6010D	Potassium	2.9	mg/L	0.20	08/19/22 23:10	
EPA 6010D	Sodium	15.5	mg/L	1.0	08/19/22 23:10	
EPA 6010D	Magnesium	34.9	mg/L	0.050	08/19/22 23:10	
EPA 6010D	Calcium	321	mg/L	10.0	08/22/22 17:57	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	08/26/22 20:06	
EPA 6020B	Barium	0.026	mg/L	0.0050	08/26/22 20:06	
EPA 6020B	Boron	7.0	mg/L	0.20	08/27/22 15:46	
EPA 6020B	Cobalt	0.013	mg/L	0.0050	08/26/22 20:06	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	08/26/22 20:06	
SM 2540C-2015	Total Dissolved Solids	570	mg/L	20.0	08/16/22 14:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	197	mg/L	5.0	08/22/22 15:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	197	mg/L	5.0	08/22/22 15:09	
EPA 300.0 Rev 2.1 1993	Chloride	150	mg/L	10.0	08/23/22 00:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.084J	mg/L	0.10	08/22/22 11:15	
EPA 300.0 Rev 2.1 1993	Sulfate	424	mg/L	10.0	08/23/22 00:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWA-4		Lab ID: 92618822001		Collected: 08/02/22 15:44		Received: 08/04/22 12:30		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		08/05/22 12:38		
pH	4.86	Std. Units			1		08/05/22 12:38		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.039J	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:53	7439-89-6	
Manganese	0.014J	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:53	7439-96-5	
Potassium	0.17J	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:53	7440-09-7	
Sodium	7.9	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:53	7440-23-5	
Calcium	6.0	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:53	7440-70-2	
Magnesium	0.68	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:53	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 19:27	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 19:27	7440-39-3	
Beryllium	0.00019J	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 19:27	7440-41-7	
Boron	0.020J	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 19:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 19:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 19:27	7440-47-3	
Cobalt	0.00066J	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 19:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 19:27	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 19:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 19:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 19:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 19:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/11/22 07:15	08/11/22 12:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	48.0	mg/L	10.0	10.0	1		08/09/22 10:22		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	13.3	mg/L	5.0	5.0	1		08/09/22 22:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/09/22 22:21		
Alkalinity, Total as CaCO3	13.3	mg/L	5.0	5.0	1		08/09/22 22:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWA-4		Lab ID: 92618822001		Collected: 08/02/22 15:44	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:37	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.9	mg/L	1.0	0.60	1		08/12/22 15:49	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		08/12/22 15:49	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		08/12/22 15:49	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWA-42D Lab ID: 92618822002 Collected: 08/09/22 17:10 Received: 08/10/22 12:30 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		08/10/22 16:32		
pH	7.58	Std. Units			1		08/10/22 16:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.40	mg/L	0.040	0.025	1	08/15/22 14:31	08/15/22 18:33	7439-89-6	
Manganese	0.025J	mg/L	0.040	0.0043	1	08/15/22 14:31	08/15/22 18:33	7439-96-5	
Potassium	0.45	mg/L	0.20	0.15	1	08/15/22 14:31	08/15/22 18:33	7440-09-7	
Sodium	8.3	mg/L	1.0	0.58	1	08/15/22 14:31	08/15/22 18:33	7440-23-5	
Calcium	44.1	mg/L	1.0	0.12	1	08/15/22 14:31	08/15/22 18:33	7440-70-2	
Magnesium	7.1	mg/L	0.050	0.012	1	08/15/22 14:31	08/15/22 18:33	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/16/22 14:23	08/17/22 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/16/22 14:23	08/17/22 19:41	7440-38-2	
Barium	0.20	mg/L	0.0050	0.00067	1	08/16/22 14:23	08/17/22 19:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/16/22 14:23	08/17/22 19:41	7440-41-7	
Boron	0.055	mg/L	0.040	0.0086	1	08/16/22 14:23	08/17/22 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/22 14:23	08/17/22 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/22 14:23	08/17/22 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/16/22 14:23	08/17/22 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/16/22 14:23	08/17/22 19:41	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00073	1	08/16/22 14:23	08/17/22 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/16/22 14:23	08/17/22 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/22 14:23	08/17/22 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/22 14:23	08/17/22 19:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 15:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	182	mg/L	10.0	10.0	1		08/11/22 10:50		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	154	mg/L	5.0	5.0	1		08/19/22 15:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/19/22 15:38		
Alkalinity, Total as CaCO3	154	mg/L	5.0	5.0	1		08/19/22 15:38		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWA-42D		Lab ID: 92618822002		Collected: 08/09/22 17:10	Received: 08/10/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/12/22 05:30	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	3.7	mg/L	1.0	0.60	1		08/18/22 09:59	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		08/18/22 09:59	16984-48-8	
Sulfate	11.2	mg/L	1.0	0.50	1		08/18/22 09:59	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWC-14 Lab ID: 92618822003 Collected: 08/11/22 13:52 Received: 08/12/22 11:25 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		08/17/22 13:04		
pH	4.93	Std. Units			1		08/17/22 13:04		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	12.1	mg/L	1.0	0.76	5	08/18/22 11:22	08/19/22 12:47	7440-09-7	
Sodium	9.9	mg/L	5.0	2.9	5	08/18/22 11:22	08/19/22 12:47	7440-23-5	
Calcium	519	mg/L	5.0	0.61	5	08/18/22 11:22	08/19/22 12:47	7440-70-2	
Iron	1.0	mg/L	0.040	0.025	1	08/18/22 11:22	08/18/22 21:03	7439-89-6	
Manganese	4.2	mg/L	0.040	0.0043	1	08/18/22 11:22	08/18/22 21:03	7439-96-5	
Magnesium	49.8	mg/L	0.050	0.012	1	08/18/22 11:22	08/18/22 21:03	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0010J	mg/L	0.0030	0.00078	1	08/24/22 13:32	08/26/22 15:08	7440-36-0	
Arsenic	0.0060	mg/L	0.0050	0.0022	1	08/24/22 13:32	08/26/22 15:08	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	08/24/22 13:32	08/26/22 15:08	7440-39-3	
Beryllium	0.00039J	mg/L	0.00050	0.000054	1	08/24/22 13:32	08/26/22 15:08	7440-41-7	
Boron	8.8	mg/L	0.20	0.043	5	08/24/22 13:32	08/27/22 14:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/22 13:32	08/26/22 15:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/22 13:32	08/26/22 15:08	7440-47-3	
Cobalt	0.037	mg/L	0.0050	0.00039	1	08/24/22 13:32	08/26/22 15:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/24/22 13:32	08/26/22 15:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/22 13:32	08/26/22 15:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/22 13:32	08/26/22 15:08	7439-98-7	
Selenium	0.0037J	mg/L	0.0050	0.0014	1	08/24/22 13:32	08/26/22 15:08	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.00018	1	08/24/22 13:32	08/26/22 15:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 15:47	7439-97-6	M1
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1060	mg/L	50.0	50.0	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 15:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 15:32		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/22/22 15:32		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWC-14		Lab ID: 92618822003		Collected: 08/11/22 13:52	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:49	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	147	mg/L	24.0	14.4	24		08/21/22 11:16	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		08/21/22 05:44	16984-48-8	
Sulfate	1200	mg/L	24.0	12.0	24		08/21/22 11:16	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWC-15		Lab ID: 92618822004		Collected: 08/11/22 13:00		Received: 08/12/22 11:25		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		08/17/22 13:05		
pH	6.29	Std. Units			1		08/17/22 13:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/18/22 11:22	08/18/22 21:08	7439-89-6	
Manganese	10.7	mg/L	0.040	0.0043	1	08/18/22 11:22	08/18/22 21:08	7439-96-5	
Calcium	210	mg/L	1.0	0.12	1	08/18/22 11:22	08/18/22 21:08	7440-70-2	
Magnesium	35.8	mg/L	0.050	0.012	1	08/18/22 11:22	08/18/22 21:08	7439-95-4	
Potassium	0.91	mg/L	0.20	0.15	1	08/18/22 11:22	08/19/22 12:52	7440-09-7	
Sodium	12.4	mg/L	1.0	0.58	1	08/18/22 11:22	08/19/22 12:52	7440-23-5	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0016J	mg/L	0.0030	0.00078	1	08/24/22 13:32	08/26/22 15:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/24/22 13:32	08/26/22 15:14	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	08/24/22 13:32	08/26/22 15:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/22 13:32	08/26/22 15:14	7440-41-7	
Boron	2.1	mg/L	0.20	0.043	5	08/24/22 13:32	08/27/22 14:28	7440-42-8	
Cadmium	0.00095	mg/L	0.00050	0.00011	1	08/24/22 13:32	08/26/22 15:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/22 13:32	08/26/22 15:14	7440-47-3	
Cobalt	0.0088	mg/L	0.0050	0.00039	1	08/24/22 13:32	08/26/22 15:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/24/22 13:32	08/26/22 15:14	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00073	1	08/24/22 13:32	08/26/22 15:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/22 13:32	08/26/22 15:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/22 13:32	08/26/22 15:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/22 13:32	08/26/22 15:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 15:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	940	mg/L	20.0	20.0	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	152	mg/L	5.0	5.0	1		08/22/22 15:36		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/22/22 15:36		
Alkalinity, Total as CaCO ₃	152	mg/L	5.0	5.0	1		08/22/22 15:36		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWC-15		Lab ID: 92618822004		Collected: 08/11/22 13:00	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:50	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	89.2	mg/L	1.0	0.60	1		08/21/22 05:58	16887-00-6	
Fluoride	0.097J	mg/L	0.10	0.050	1		08/21/22 05:58	16984-48-8	
Sulfate	365	mg/L	7.0	3.5	7		08/21/22 11:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-21D		Lab ID: 92618822005		Collected: 08/11/22 09:35		Received: 08/12/22 11:25		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		08/17/22 13:06		
pH	6.96	Std. Units			1		08/17/22 13:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	21.4	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 20:11	7439-89-6	M1
Manganese	1.2	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 20:11	7439-96-5	
Potassium	1.4	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 20:11	7440-09-7	
Sodium	16.1	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 20:11	7440-23-5	M1
Magnesium	71.6	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 20:11	7439-95-4	M1
Calcium	430	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 16:46	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/24/22 13:32	08/26/22 15:20	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0022	1	08/24/22 13:32	08/26/22 15:20	7440-38-2	
Barium	0.037	mg/L	0.0050	0.00067	1	08/24/22 13:32	08/26/22 15:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/22 13:32	08/26/22 15:20	7440-41-7	
Boron	5.0	mg/L	0.20	0.043	5	08/24/22 13:32	08/27/22 14:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/22 13:32	08/26/22 15:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/22 13:32	08/26/22 15:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/22 13:32	08/26/22 15:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/24/22 13:32	08/26/22 15:20	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00073	1	08/24/22 13:32	08/26/22 15:20	7439-93-2	
Molybdenum	0.023	mg/L	0.010	0.00074	1	08/24/22 13:32	08/26/22 15:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/22 13:32	08/26/22 15:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/22 13:32	08/26/22 15:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	356	mg/L	20.0	20.0	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	51.5	mg/L	5.0	5.0	1		08/22/22 15:47		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/22/22 15:47		
Alkalinity, Total as CaCO ₃	51.5	mg/L	5.0	5.0	1		08/22/22 15:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-21D		Lab ID: 92618822005		Collected: 08/11/22 09:35	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:51	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	216	mg/L	18.0	10.8	18		08/21/22 11:45	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		08/21/22 06:42	16984-48-8	
Sulfate	910	mg/L	18.0	9.0	18		08/21/22 11:45	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-22		Lab ID: 92618822006		Collected: 08/11/22 09:48		Received: 08/12/22 11:25		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		08/17/22 13:06		
pH	5.30	Std. Units			1		08/17/22 13:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.026J	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 20:31	7439-89-6	
Manganese	11.6	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 20:31	7439-96-5	
Potassium	0.74	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 20:31	7440-09-7	
Sodium	13.2	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 20:31	7440-23-5	
Magnesium	42.4	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 20:31	7439-95-4	
Calcium	198	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 17:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/24/22 13:32	08/26/22 15:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/24/22 13:32	08/26/22 15:26	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	08/24/22 13:32	08/26/22 15:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/22 13:32	08/26/22 15:26	7440-41-7	
Boron	2.5	mg/L	0.20	0.043	5	08/24/22 13:32	08/27/22 14:40	7440-42-8	
Cadmium	0.0020	mg/L	0.00050	0.00011	1	08/24/22 13:32	08/26/22 15:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/22 13:32	08/26/22 15:26	7440-47-3	
Cobalt	0.015	mg/L	0.0050	0.00039	1	08/24/22 13:32	08/26/22 15:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/24/22 13:32	08/26/22 15:26	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	08/24/22 13:32	08/26/22 15:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/22 13:32	08/26/22 15:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/22 13:32	08/26/22 15:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/22 13:32	08/26/22 15:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00016J	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	960	mg/L	100	100	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	43.7	mg/L	5.0	5.0	1		08/22/22 15:54		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/22/22 15:54		
Alkalinity, Total as CaCO ₃	43.7	mg/L	5.0	5.0	1		08/22/22 15:54		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-22		Lab ID: 92618822006		Collected: 08/11/22 09:48	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:51	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	125	mg/L	9.0	5.4	9		08/21/22 12:28	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		08/21/22 06:56	16984-48-8	
Sulfate	472	mg/L	9.0	4.5	9		08/21/22 12:28	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-23D **Lab ID: 92618822007** Collected: 08/11/22 11:47 Received: 08/12/22 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/17/22 13:06		
pH	6.57	Std. Units			1		08/17/22 13:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	315	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 17:05	7440-70-2	
Iron	0.12	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 20:36	7439-89-6	
Manganese	6.6	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 20:36	7439-96-5	
Potassium	2.0	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 20:36	7440-09-7	
Sodium	13.2	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 20:36	7440-23-5	
Magnesium	33.8	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 20:36	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/24/22 13:32	08/26/22 15:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/24/22 13:32	08/26/22 15:32	7440-38-2	
Barium	0.050	mg/L	0.0050	0.00067	1	08/24/22 13:32	08/26/22 15:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/22 13:32	08/26/22 15:32	7440-41-7	
Boron	3.3	mg/L	0.20	0.043	5	08/24/22 13:32	08/27/22 14:46	7440-42-8	
Cadmium	0.00021J	mg/L	0.00050	0.00011	1	08/24/22 13:32	08/26/22 15:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/22 13:32	08/26/22 15:32	7440-47-3	
Cobalt	0.00088J	mg/L	0.0050	0.00039	1	08/24/22 13:32	08/26/22 15:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/24/22 13:32	08/26/22 15:32	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00073	1	08/24/22 13:32	08/26/22 15:32	7439-93-2	
Molybdenum	0.0039J	mg/L	0.010	0.00074	1	08/24/22 13:32	08/26/22 15:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/22 13:32	08/26/22 15:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/22 13:32	08/26/22 15:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2700	mg/L	100	100	1		08/16/22 14:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	260	mg/L	5.0	5.0	1		08/22/22 16:25		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/22/22 16:25		
Alkalinity, Total as CaCO ₃	260	mg/L	5.0	5.0	1		08/22/22 16:25		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-23D		Lab ID: 92618822007		Collected: 08/11/22 11:47	Received: 08/12/22 11:25	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:51	18496-25-8		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	124	mg/L	9.0	5.4	9		08/22/22 20:44	16887-00-6		
Fluoride	0.060J	mg/L	0.10	0.050	1		08/22/22 02:34	16984-48-8		
Sulfate	389	mg/L	9.0	4.5	9		08/22/22 20:44	14808-79-8		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-35 Lab ID: 92618822008 Collected: 08/11/22 09:19 Received: 08/12/22 11:25 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		08/17/22 13:06		
pH	4.86	Std. Units			1		08/17/22 13:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	499	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 17:10	7440-70-2	
Iron	0.062	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 20:50	7439-89-6	
Manganese	9.5	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 20:50	7439-96-5	
Potassium	8.4	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 20:50	7440-09-7	
Sodium	11.8	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 20:50	7440-23-5	
Magnesium	66.3	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 20:50	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.015	0.0039	5	08/25/22 10:13	08/26/22 17:31	7440-36-0	D3
Arsenic	ND	mg/L	0.025	0.011	5	08/25/22 10:13	08/26/22 17:31	7440-38-2	D3
Barium	0.022J	mg/L	0.025	0.0034	5	08/25/22 10:13	08/26/22 17:31	7440-39-3	D3
Beryllium	0.00066J	mg/L	0.0025	0.00027	5	08/25/22 10:13	08/26/22 17:31	7440-41-7	D3
Boron	9.6	mg/L	0.20	0.043	5	08/25/22 10:13	08/26/22 17:31	7440-42-8	M1
Cadmium	0.0013J	mg/L	0.0025	0.00057	5	08/25/22 10:13	08/26/22 17:31	7440-43-9	D3
Chromium	ND	mg/L	0.025	0.0055	5	08/25/22 10:13	08/26/22 17:31	7440-47-3	D3
Cobalt	0.082	mg/L	0.025	0.0020	5	08/25/22 10:13	08/26/22 17:31	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	08/25/22 10:13	08/26/22 17:31	7439-92-1	D3
Lithium	ND	mg/L	0.15	0.0036	5	08/25/22 10:13	08/26/22 17:31	7439-93-2	D3
Molybdenum	ND	mg/L	0.050	0.0037	5	08/25/22 10:13	08/26/22 17:31	7439-98-7	D3
Selenium	0.0089J	mg/L	0.025	0.0068	5	08/25/22 10:13	08/26/22 17:31	7782-49-2	D3
Thallium	ND	mg/L	0.0050	0.00090	5	08/25/22 10:13	08/26/22 17:31	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1070	mg/L	50.0	50.0	1		08/16/22 14:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 17:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 17:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/22/22 17:02		

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-35		Lab ID: 92618822008		Collected: 08/11/22 09:19	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:52	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	172	mg/L	24.0	14.4	24		08/22/22 20:58	16887-00-6	
Fluoride	0.088J	mg/L	0.10	0.050	1		08/22/22 02:49	16984-48-8	
Sulfate	1020	mg/L	24.0	12.0	24		08/22/22 20:58	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-51		Lab ID: 92618822009		Collected: 08/11/22 11:20		Received: 08/12/22 11:25		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		08/17/22 13:07		
pH	6.37	Std. Units			1		08/17/22 13:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	1.1	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 20:55	7439-89-6	
Manganese	7.6	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 20:55	7439-96-5	
Potassium	8.2	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 20:55	7440-09-7	
Sodium	20.8	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 20:55	7440-23-5	
Magnesium	54.7	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 20:55	7439-95-4	
Calcium	521	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 17:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 17:55	7440-36-0	
Arsenic	0.0043J	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 17:55	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 17:55	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 17:55	7440-41-7	
Boron	8.2	mg/L	0.040	0.0086	1	08/25/22 10:13	08/26/22 17:55	7440-42-8	
Cadmium	0.00045J	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 17:55	7440-47-3	
Cobalt	0.027	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 17:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 17:55	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 17:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 17:55	7439-98-7	
Selenium	0.0023J	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 17:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 17:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2080	mg/L	100	100	1		08/16/22 14:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	89.8	mg/L	5.0	5.0	1		08/22/22 17:18		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/22/22 17:18		
Alkalinity, Total as CaCO ₃	89.8	mg/L	5.0	5.0	1		08/22/22 17:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-51		Lab ID: 92618822009		Collected: 08/11/22 11:20	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:52	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	144	mg/L	23.0	13.8	23		08/22/22 21:13	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		08/22/22 03:04	16984-48-8	
Sulfate	979	mg/L	23.0	11.5	23		08/22/22 21:13	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: EB-2		Lab ID: 92618822010		Collected: 08/11/22 13:25		Received: 08/12/22 11:25		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 21:00	7439-89-6		
Manganese	ND	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 21:00	7439-96-5		
Potassium	ND	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 21:00	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 21:00	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	08/19/22 15:31	08/19/22 21:00	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 21:00	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 18:01	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 18:01	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 18:01	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 18:01	7440-41-7		
Boron	0.074	mg/L	0.040	0.0086	1	08/25/22 10:13	08/26/22 18:01	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 18:01	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 18:01	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 18:01	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 18:01	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 18:01	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 18:01	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 18:01	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 18:01	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:20	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	100	100	1		08/16/22 14:18			
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 17:27			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 17:27			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/22/22 17:27			
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:53	18496-25-8		
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		08/22/22 03:19	16887-00-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: EB-2		Lab ID: 92618822010		Collected: 08/11/22 13:25	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		08/22/22 03:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/22/22 03:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: FB-2		Lab ID: 92618822011		Collected: 08/11/22 13:40	Received: 08/12/22 11:25	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 21:05	7439-89-6		
Manganese	ND	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 21:05	7439-96-5		
Potassium	ND	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 21:05	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 21:05	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	08/19/22 15:31	08/19/22 21:05	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 21:05	7439-95-4		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 18:07	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 18:07	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 18:07	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 18:07	7440-41-7		
Boron	0.029J	mg/L	0.040	0.0086	1	08/25/22 10:13	08/26/22 18:07	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 18:07	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 18:07	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 18:07	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 18:07	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 18:07	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 18:07	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 18:07	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 18:07	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/22 09:00	08/25/22 16:22	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/16/22 14:18			
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/22/22 17:31			
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		08/22/22 17:31			
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/18/22 03:54	18496-25-8		
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		08/22/22 03:33	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		08/22/22 03:33	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: FB-2		Lab ID: 92618822011		Collected: 08/11/22 13:40	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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		08/22/22 03:33	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWA-5		Lab ID: 92618822013		Collected: 08/10/22 09:57		Received: 08/12/22 11:25		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		08/17/22 13:09		
pH	6.22	Std. Units			1		08/17/22 13:09		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	1.5	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 21:52	7439-89-6	
Manganese	0.061	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 21:52	7439-96-5	
Potassium	0.70	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 21:52	7440-09-7	
Sodium	6.1	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 21:52	7440-23-5	
Calcium	27.4	mg/L	1.0	0.12	1	08/19/22 15:31	08/19/22 21:52	7440-70-2	
Magnesium	5.4	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 21:52	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:01	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:01	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0086	1	08/25/22 10:13	08/26/22 19:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:01	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:00	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	134	mg/L	10.0	10.0	1		08/16/22 14:15		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	84.3	mg/L	5.0	5.0	1		08/22/22 13:43		
Alkalinity, Total as CaCO ₃	84.3	mg/L	5.0	5.0	1		08/22/22 13:43		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:15	18496-25-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWA-5		Lab ID: 92618822013		Collected: 08/10/22 09:57	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	2.1	mg/L	1.0	0.60	1		08/22/22 06:37	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		08/22/22 06:37	16984-48-8	
Sulfate	19.7	mg/L	1.0	0.50	1		08/22/22 06:37	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWA-6	Lab ID: 92618822014	Collected: 08/10/22 09:10	Received: 08/12/22 11:25	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		08/17/22 13:13		
pH	7.53	Std. Units			1		08/17/22 13:13		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.33	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 21:57	7439-89-6	
Manganese	0.083	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 21:57	7439-96-5	
Potassium	0.57	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 21:57	7440-09-7	
Sodium	7.7	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 21:57	7440-23-5	
Calcium	55.7	mg/L	1.0	0.12	1	08/19/22 15:31	08/19/22 21:57	7440-70-2	
Magnesium	9.8	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 21:57	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:07	7440-38-2	
Barium	0.18	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:07	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	08/25/22 10:13	08/26/22 19:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:07	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:11	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	217	mg/L	10.0	10.0	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	163	mg/L	5.0	5.0	1		08/22/22 13:51		
Alkalinity, Total as CaCO3	163	mg/L	5.0	5.0	1		08/22/22 13:51		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:16	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: HGWA-6 **Lab ID: 92618822014** Collected: 08/10/22 09:10 Received: 08/12/22 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		08/22/22 06:52	16887-00-6	
Fluoride	0.067J	mg/L	0.10	0.050	1		08/22/22 06:52	16984-48-8	
Sulfate	34.0	mg/L	1.0	0.50	1		08/22/22 06:52	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Project No.: 92618822

Sample: HGWC-16		Lab ID: 92618822015		Collected: 08/10/22 16:01		Received: 08/12/22 11:25		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		08/17/22 13:13		
pH	7.09	Std. Units			1		08/17/22 13:13		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	1.4	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 22:02	7439-89-6	
Manganese	0.045	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 22:02	7439-96-5	
Potassium	0.82	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 22:02	7440-09-7	
Sodium	10.4	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 22:02	7440-23-5	
Calcium	207	mg/L	1.0	0.12	1	08/19/22 15:31	08/19/22 22:02	7440-70-2	
Magnesium	16.6	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 22:02	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:13	7440-38-2	
Barium	0.10	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:13	7440-41-7	
Boron	2.2	mg/L	0.20	0.043	5	08/25/22 10:13	08/27/22 14:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:13	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:13	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	894	mg/L	20.0	20.0	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	208	mg/L	5.0	5.0	1		08/22/22 16:09		
Alkalinity, Total as CaCO3	208	mg/L	5.0	5.0	1		08/22/22 16:09		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:17	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: HGWC-16									
Lab ID: 92618822015									
Collected: 08/10/22 16:01									
Received: 08/12/22 11:25									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	98.3	mg/L	1.0	0.60	1		08/22/22 07:07	16887-00-6	
Fluoride	0.054J	mg/L	0.10	0.050	1		08/22/22 07:07	16984-48-8	
Sulfate	206	mg/L	5.0	2.5	5		08/22/22 21:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWC-17 Lab ID: 92618822016 Collected: 08/10/22 14:01 Received: 08/12/22 11:25 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		08/17/22 13:13		
pH	6.29	Std. Units			1		08/17/22 13:13		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	316	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 17:19	7440-70-2	
Iron	0.11	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 22:07	7439-89-6	
Manganese	3.4	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 22:07	7439-96-5	
Potassium	2.8	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 22:07	7440-09-7	
Sodium	15.1	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 22:07	7440-23-5	
Magnesium	33.7	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 22:07	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:19	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:19	7440-39-3	
Beryllium	0.000060J	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:19	7440-41-7	
Boron	6.9	mg/L	0.20	0.043	5	08/25/22 10:13	08/27/22 15:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:19	7440-47-3	
Cobalt	0.012	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:19	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:16	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1390	mg/L	50.0	50.0	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	213	mg/L	5.0	5.0	1		08/22/22 16:17		
Alkalinity, Total as CaCO ₃	213	mg/L	5.0	5.0	1		08/22/22 16:17		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:17	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: HGWC-17									
Lab ID: 92618822016									
Collected: 08/10/22 14:01									
Received: 08/12/22 11:25									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	148	mg/L	10.0	6.0	10		08/22/22 23:16	16887-00-6	M1
Fluoride	0.086J	mg/L	0.10	0.050	1		08/22/22 08:42	16984-48-8	
Sulfate	423	mg/L	10.0	5.0	10		08/22/22 23:16	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: HGWC-18 Lab ID: 92618822017 Collected: 08/10/22 11:57 Received: 08/12/22 11:25 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		08/17/22 13:14		
pH	4.41	Std. Units			1		08/17/22 13:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.085	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 22:12	7439-89-6	
Manganese	3.5	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 22:12	7439-96-5	
Potassium	11.1	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 22:12	7440-09-7	
Sodium	11.8	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 22:12	7440-23-5	
Magnesium	42.8	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 22:12	7439-95-4	
Calcium	433	mg/L	10.0	1.2	10	08/19/22 15:31	08/22/22 17:24	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:25	7440-36-0	
Arsenic	0.0058	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:25	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:25	7440-39-3	
Beryllium	0.0032	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:25	7440-41-7	
Boron	8.4	mg/L	0.20	0.043	5	08/25/22 10:13	08/27/22 15:10	7440-42-8	
Cadmium	0.0017	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:25	7440-47-3	
Cobalt	0.16	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:25	7440-48-4	
Lead	0.0011	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:25	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:25	7439-98-7	
Selenium	0.0096	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:24	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1890	mg/L	100	100	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 14:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/22/22 14:22		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:17	18496-25-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: HGWC-18									
Lab ID: 92618822017									
Collected: 08/10/22 11:57									
Received: 08/12/22 11:25									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	95.2	mg/L	22.0	13.2	22		08/23/22 00:00	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.050	1		08/22/22 09:26	16984-48-8	
Sulfate	946	mg/L	22.0	11.0	22		08/23/22 00:00	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-33		Lab ID: 92618822018		Collected: 08/10/22 16:10		Received: 08/12/22 11:25		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		08/17/22 13:14		
pH	4.36	Std. Units			1		08/17/22 13:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	1.1	mg/L	0.040	0.025	1	08/19/22 15:31	08/19/22 22:17	7439-89-6	
Manganese	3.7	mg/L	0.040	0.0043	1	08/19/22 15:31	08/19/22 22:17	7439-96-5	
Potassium	11.6	mg/L	0.20	0.15	1	08/19/22 15:31	08/19/22 22:17	7440-09-7	
Sodium	9.9	mg/L	1.0	0.58	1	08/19/22 15:31	08/19/22 22:17	7440-23-5	
Magnesium	44.0	mg/L	0.050	0.012	1	08/19/22 15:31	08/19/22 22:17	7439-95-4	
Calcium	498	mg/L	5.0	0.61	5	08/19/22 15:31	08/19/22 22:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.015	0.0039	5	08/25/22 10:13	08/27/22 15:28	7440-36-0	
Arsenic	ND	mg/L	0.025	0.011	5	08/25/22 10:13	08/27/22 15:28	7440-38-2	
Barium	0.020J	mg/L	0.025	0.0034	5	08/25/22 10:13	08/27/22 15:28	7440-39-3	
Beryllium	0.00080	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:43	7440-41-7	
Boron	8.0	mg/L	0.20	0.043	5	08/25/22 10:13	08/27/22 15:28	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00057	5	08/25/22 10:13	08/27/22 15:28	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	08/25/22 10:13	08/27/22 15:28	7440-47-3	
Cobalt	0.046	mg/L	0.025	0.0020	5	08/25/22 10:13	08/27/22 15:28	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	08/25/22 10:13	08/27/22 15:28	7439-92-1	
Lithium	0.00090J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:43	7439-98-7	
Selenium	0.0070J	mg/L	0.025	0.0068	5	08/25/22 10:13	08/27/22 15:28	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	08/25/22 10:13	08/27/22 15:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:27	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2050	mg/L	100	100	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/22/22 14:26		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/22/22 14:26		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:17	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-33 **Lab ID: 92618822018** Collected: 08/10/22 16:10 Received: 08/12/22 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	120	mg/L	24.0	14.4	24		08/23/22 00:15	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.050	1		08/22/22 09:41	16984-48-8	
Sulfate	1010	mg/L	24.0	12.0	24		08/23/22 00:15	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-34D		Lab ID: 92618822019		Collected: 08/10/22 14:00		Received: 08/12/22 11:25		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		08/17/22 13:14		
pH	7.00	Std. Units			1		08/17/22 13:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	585	mg/L	10.0	1.2	10	08/19/22 15:44	08/22/22 17:43	7440-70-2	M1
Iron	0.081	mg/L	0.040	0.025	1	08/19/22 15:44	08/19/22 22:45	7439-89-6	
Manganese	5.1	mg/L	0.040	0.0043	1	08/19/22 15:44	08/19/22 22:45	7439-96-5	
Potassium	11.9	mg/L	0.20	0.15	1	08/19/22 15:44	08/19/22 22:45	7440-09-7	
Sodium	11.7	mg/L	1.0	0.58	1	08/19/22 15:44	08/19/22 22:45	7440-23-5	
Magnesium	54.4	mg/L	0.050	0.012	1	08/19/22 15:44	08/19/22 22:45	7439-95-4	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:49	7440-36-0	
Arsenic	0.0045J	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:49	7440-38-2	
Barium	0.046	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:49	7440-41-7	
Boron	10.2	mg/L	0.40	0.086	10	08/25/22 10:13	08/27/22 15:34	7440-42-8	
Cadmium	0.00041J	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:49	7440-47-3	
Cobalt	0.0066	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:49	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:29	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2310	mg/L	100	100	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	89.0	mg/L	5.0	5.0	1		08/22/22 14:41		
Alkalinity, Total as CaCO ₃	89.0	mg/L	5.0	5.0	1		08/22/22 14:41		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:18	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-34D **Lab ID: 92618822019** Collected: 08/10/22 14:00 Received: 08/12/22 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	185	mg/L	25.0	15.0	25		08/23/22 00:29	16887-00-6	
Fluoride	0.081J	mg/L	0.10	0.050	1		08/22/22 09:56	16984-48-8	
Sulfate	1040	mg/L	25.0	12.5	25		08/23/22 00:29	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: MW-37D		Lab ID: 92618822020		Collected: 08/10/22 16:30		Received: 08/12/22 11:25		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		08/17/22 13:14		
pH	7.47	Std. Units			1		08/17/22 13:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.77	mg/L	0.040	0.025	1	08/19/22 15:44	08/19/22 23:05	7439-89-6	
Manganese	0.066	mg/L	0.040	0.0043	1	08/19/22 15:44	08/19/22 23:05	7439-96-5	
Potassium	0.92	mg/L	0.20	0.15	1	08/19/22 15:44	08/19/22 23:05	7440-09-7	
Sodium	28.8	mg/L	1.0	0.58	1	08/19/22 15:44	08/19/22 23:05	7440-23-5	
Calcium	113	mg/L	1.0	0.12	1	08/19/22 15:44	08/19/22 23:05	7440-70-2	
Magnesium	21.9	mg/L	0.050	0.012	1	08/19/22 15:44	08/19/22 23:05	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 19:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 19:54	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 19:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 19:54	7440-41-7	
Boron	0.11	mg/L	0.040	0.0086	1	08/25/22 10:13	08/27/22 15:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 19:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 19:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 19:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 19:54	7439-92-1	
Lithium	0.025J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 19:54	7439-93-2	
Molybdenum	0.0076J	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 19:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 19:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 19:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:32	7439-97-6	H1,H2
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2770	mg/L	100	100	1		08/16/22 14:16		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	147	mg/L	5.0	5.0	1		08/22/22 14:49		
Alkalinity, Total as CaCO3	147	mg/L	5.0	5.0	1		08/22/22 14:49		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:19	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: MW-37D **Lab ID: 92618822020** Collected: 08/10/22 16:30 Received: 08/12/22 11:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	84.8	mg/L	3.0	1.8	3		08/23/22 00:44	16887-00-6	
Fluoride	0.084J	mg/L	0.10	0.050	1		08/22/22 10:11	16984-48-8	
Sulfate	122	mg/L	3.0	1.5	3		08/23/22 00:44	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Sample: DUP-2		Lab ID: 92618822021		Collected: 08/10/22 00:00		Received: 08/12/22 11:25		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	0.061	mg/L	0.040	0.025	1	08/19/22 15:44	08/19/22 23:10	7439-89-6		
Manganese	3.5	mg/L	0.040	0.0043	1	08/19/22 15:44	08/19/22 23:10	7439-96-5		
Potassium	2.9	mg/L	0.20	0.15	1	08/19/22 15:44	08/19/22 23:10	7440-09-7		
Sodium	15.5	mg/L	1.0	0.58	1	08/19/22 15:44	08/19/22 23:10	7440-23-5		
Magnesium	34.9	mg/L	0.050	0.012	1	08/19/22 15:44	08/19/22 23:10	7439-95-4		
Calcium	321	mg/L	10.0	1.2	10	08/19/22 15:44	08/22/22 17:57	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/25/22 10:13	08/26/22 20:06	7440-36-0		
Arsenic	0.0022J	mg/L	0.0050	0.0022	1	08/25/22 10:13	08/26/22 20:06	7440-38-2		
Barium	0.026	mg/L	0.0050	0.00067	1	08/25/22 10:13	08/26/22 20:06	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/25/22 10:13	08/26/22 20:06	7440-41-7		
Boron	7.0	mg/L	0.20	0.043	5	08/25/22 10:13	08/27/22 15:46	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/25/22 10:13	08/26/22 20:06	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	08/25/22 10:13	08/26/22 20:06	7440-47-3		
Cobalt	0.013	mg/L	0.0050	0.00039	1	08/25/22 10:13	08/26/22 20:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	08/25/22 10:13	08/26/22 20:06	7439-92-1		
Lithium	0.0011J	mg/L	0.030	0.00073	1	08/25/22 10:13	08/26/22 20:06	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	08/25/22 10:13	08/26/22 20:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	08/25/22 10:13	08/26/22 20:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	08/25/22 10:13	08/26/22 20:06	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/19/22 08:35	09/19/22 14:34	7439-97-6	H1,H2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	570	mg/L	20.0	20.0	1		08/16/22 14:16			
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	197	mg/L	5.0	5.0	1		08/22/22 15:09			
Alkalinity, Total as CaCO3	197	mg/L	5.0	5.0	1		08/22/22 15:09			
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/16/22 05:21	18496-25-8		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	150	mg/L	10.0	6.0	10		08/23/22 00:59	16887-00-6		
Fluoride	0.084J	mg/L	0.10	0.050	1		08/22/22 11:15	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Sample: DUP-2		Lab ID: 92618822021		Collected: 08/10/22 00:00	Received: 08/12/22 11:25	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Sulfate	424	mg/L	10.0	5.0	10		08/23/22 00:59	14808-79-8	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 716032 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618822001

METHOD BLANK: 3732776 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/11/22 13:20	
Iron	mg/L	ND	0.040	0.025	08/11/22 13:20	
Magnesium	mg/L	ND	0.050	0.012	08/11/22 13:20	
Manganese	mg/L	ND	0.040	0.0043	08/11/22 13:20	
Potassium	mg/L	ND	0.20	0.15	08/11/22 13:20	
Sodium	mg/L	ND	1.0	0.58	08/11/22 13:20	

LABORATORY CONTROL SAMPLE: 3732777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Manganese	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732778 3732779

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Spike Conc.	Result	Spike Conc.	Result							
Calcium	mg/L	153	1	1	150	153	-362	-50	75-125	2	20	M1
Iron	mg/L	0.053	1	1	1.1	1.1	107	108	75-125	1	20	
Magnesium	mg/L	21.3	1	1	21.8	22.2	57	96	75-125	2	20	M1
Manganese	mg/L	0.31	1	1	1.4	1.4	105	106	75-125	1	20	
Potassium	mg/L	7.7	1	1	8.6	8.8	92	109	75-125	2	20	
Sodium	mg/L	9.4	1	1	10.2	10.4	79	96	75-125	2	20	

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

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 717238 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618822002

METHOD BLANK: 3738949 Matrix: Water
Associated Lab Samples: 92618822002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/15/22 17:32	
Iron	mg/L	ND	0.040	0.025	08/15/22 17:32	
Magnesium	mg/L	ND	0.050	0.012	08/15/22 17:32	
Manganese	mg/L	ND	0.040	0.0043	08/15/22 17:32	
Potassium	mg/L	ND	0.20	0.15	08/15/22 17:32	
Sodium	mg/L	ND	1.0	0.58	08/15/22 17:32	

LABORATORY CONTROL SAMPLE: 3738950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Manganese	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.97	97	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3738951 3738952

Parameter	Units	92620181005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Calcium	mg/L	8450 ug/L	1	1	9.2	9.5	78	109	75-125	3	20		
Iron	mg/L	13700 ug/L	1	1	19.2	21.1	545	739	75-125	10	20	M1	
Magnesium	mg/L	4840 ug/L	1	1	5.9	6.1	103	129	75-125	4	20	M1	
Manganese	mg/L	2590 ug/L	1	1	3.5	3.7	95	108	75-125	4	20		
Potassium	mg/L	3700 ug/L	1	1	4.8	5.0	109	126	75-125	4	20	M1	
Sodium	mg/L	6660 ug/L	1	1	7.5	7.7	82	107	75-125	3	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718057 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618822003, 92618822004

METHOD BLANK: 3743081 Matrix: Water
Associated Lab Samples: 92618822003, 92618822004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/18/22 19:07	
Iron	mg/L	ND	0.040	0.025	08/18/22 19:07	
Magnesium	mg/L	ND	0.050	0.012	08/18/22 19:07	
Manganese	mg/L	ND	0.040	0.0043	08/18/22 19:07	
Potassium	mg/L	ND	0.20	0.15	08/19/22 11:53	
Sodium	mg/L	ND	1.0	0.58	08/19/22 11:53	

LABORATORY CONTROL SAMPLE: 3743082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	
Iron	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Manganese	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.1	110	80-120	
Sodium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3743188 3743189

Parameter	Units	92619473001		3743188		3743189		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec							
Calcium	mg/L	2930 ug/L	1	1	4.1	3.9	115	98	75-125	4	20			
Iron	mg/L	2580 ug/L	1	1	3.7	3.6	116	99	75-125	5	20			
Magnesium	mg/L	977 ug/L	1	1	2.1	2.0	114	105	75-125	4	20			
Manganese	mg/L	ND	1	1	1.1	1.1	107	105	75-125	2	20			
Potassium	mg/L	26000 ug/L	1	1	24.3	21.3	-172	-464	75-125	13	20 M1			
Sodium	mg/L	3230000 ug/L	1	1	3190	3060	-4400	-17200	75-125	4	20 M1			

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718461 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618822005, 92618822006, 92618822007, 92618822008, 92618822009, 92618822010, 92618822011, 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018

METHOD BLANK: 3745232 Matrix: Water
Associated Lab Samples: 92618822005, 92618822006, 92618822007, 92618822008, 92618822009, 92618822010, 92618822011, 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/19/22 20:02	
Iron	mg/L	ND	0.040	0.025	08/19/22 20:02	
Magnesium	mg/L	ND	0.050	0.012	08/19/22 20:02	
Manganese	mg/L	ND	0.040	0.0043	08/19/22 20:02	
Potassium	mg/L	ND	0.20	0.15	08/19/22 20:02	
Sodium	mg/L	ND	1.0	0.58	08/19/22 20:02	

LABORATORY CONTROL SAMPLE: 3745233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Iron	mg/L	1	1.1	109	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Manganese	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Sodium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745234 3745235

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618822005 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	430	1	1	397	419	-3270	-1110	75-125	5	20	M1	
Iron	mg/L	21.4	1	1	20.9	22.1	-54	73	75-125	6	20	M1	
Magnesium	mg/L	71.6	1	1	68.0	71.9	-362	24	75-125	6	20	M1	
Manganese	mg/L	1.2	1	1	2.2	2.3	92	108	75-125	7	20		
Potassium	mg/L	1.4	1	1	2.4	2.5	98	108	75-125	4	20		
Sodium	mg/L	16.1	1	1	15.9	17.0	-12	95	75-125	6	20	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718462 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618822019, 92618822020, 92618822021

METHOD BLANK: 3745239 Matrix: Water
Associated Lab Samples: 92618822019, 92618822020, 92618822021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/19/22 22:26	
Iron	mg/L	ND	0.040	0.025	08/19/22 22:26	
Magnesium	mg/L	ND	0.050	0.012	08/19/22 22:26	
Manganese	mg/L	ND	0.040	0.0043	08/19/22 22:26	
Potassium	mg/L	ND	0.20	0.15	08/19/22 22:26	
Sodium	mg/L	ND	1.0	0.58	08/19/22 22:26	

LABORATORY CONTROL SAMPLE: 3745240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Manganese	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.1	112	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745241 3745242

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92618822019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Calcium	mg/L	585	1	1	578	584	-696	-94	75-125	1	20	M1
Iron	mg/L	0.081	1	1	1.1	1.1	104	102	75-125	2	20	
Magnesium	mg/L	54.4	1	1	54.7	53.9	22	-53	75-125	1	20	M1
Manganese	mg/L	5.1	1	1	6.1	6.0	101	91	75-125	2	20	
Potassium	mg/L	11.9	1	1	12.9	12.7	102	84	75-125	1	20	
Sodium	mg/L	11.7	1	1	12.7	12.5	94	80	75-125	1	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 715918 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618822001

METHOD BLANK: 3732042 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/10/22 17:46	
Arsenic	mg/L	ND	0.0050	0.0022	08/10/22 17:46	
Barium	mg/L	ND	0.0050	0.00067	08/10/22 17:46	
Beryllium	mg/L	ND	0.00050	0.000054	08/10/22 17:46	
Boron	mg/L	ND	0.040	0.0086	08/10/22 17:46	
Cadmium	mg/L	ND	0.00050	0.00011	08/10/22 17:46	
Chromium	mg/L	ND	0.0050	0.0011	08/10/22 17:46	
Cobalt	mg/L	ND	0.0050	0.00039	08/10/22 17:46	
Lead	mg/L	ND	0.0010	0.00089	08/10/22 17:46	
Lithium	mg/L	ND	0.030	0.00073	08/10/22 17:46	
Molybdenum	mg/L	ND	0.010	0.00074	08/10/22 17:46	
Selenium	mg/L	ND	0.0050	0.0014	08/10/22 17:46	
Thallium	mg/L	ND	0.0010	0.00018	08/10/22 17:46	

LABORATORY CONTROL SAMPLE: 3732043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	120	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732044 3732045

Parameter	Units	92618820002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.13	123	128	75-125	4	20	M1
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameter	Units	3732044		3732045		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.060	0.1	0.1	0.18	0.19	120	126	75-125	3	20	M1	
Beryllium	mg/L	0.000056J	0.1	0.1	0.089	0.087	89	87	75-125	2	20		
Boron	mg/L	1.5	1	1	2.3	2.3	80	82	75-125	1	20		
Cadmium	mg/L	0.00017J	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20		
Cobalt	mg/L	0.0024J	0.1	0.1	0.097	0.098	95	95	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.097	96	97	75-125	1	20		
Lithium	mg/L	0.0026J	0.1	0.1	0.090	0.090	88	87	75-125	0	20		
Molybdenum	mg/L	0.29	0.1	0.1	0.41	0.43	116	138	75-125	5	20	M1	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	0	20		
Thallium	mg/L	0.00018J	0.1	0.1	0.097	0.097	97	97	75-125	0	20		

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 717017 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618822002

METHOD BLANK: 3738053 Matrix: Water
Associated Lab Samples: 92618822002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/17/22 19:29	
Arsenic	mg/L	ND	0.0050	0.0022	08/17/22 19:29	
Barium	mg/L	ND	0.0050	0.00067	08/17/22 19:29	
Beryllium	mg/L	ND	0.00050	0.000054	08/17/22 19:29	
Boron	mg/L	ND	0.040	0.0086	08/17/22 19:29	
Cadmium	mg/L	ND	0.00050	0.00011	08/17/22 19:29	
Chromium	mg/L	ND	0.0050	0.0011	08/17/22 19:29	
Cobalt	mg/L	ND	0.0050	0.00039	08/17/22 19:29	
Lead	mg/L	ND	0.0010	0.00089	08/17/22 19:29	
Lithium	mg/L	ND	0.030	0.00073	08/17/22 19:29	
Molybdenum	mg/L	ND	0.010	0.00074	08/17/22 19:29	
Selenium	mg/L	ND	0.0050	0.0014	08/17/22 19:29	
Thallium	mg/L	ND	0.0010	0.00018	08/17/22 19:29	

LABORATORY CONTROL SAMPLE: 3738054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3738055 3738056

Parameter	Units	92618822002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Conc.	Spike Conc.	Result	Result						
Antimony	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameter	Units	3738055		3738056		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92618822002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.20	0.1	0.1	0.28	0.29	81	93	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20		
Boron	mg/L	0.055	1	1	1.0	1.0	94	95	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.088	0.091	88	91	75-125	3	20		
Lithium	mg/L	0.011J	0.1	0.1	0.10	0.11	92	99	75-125	7	20		
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.098	94	97	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.091	0.095	91	95	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.093	92	93	75-125	1	20		

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

QC Batch: 719224

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618822003, 92618822004, 92618822005, 92618822006, 92618822007

METHOD BLANK: 3748677

Matrix: Water

Associated Lab Samples: 92618822003, 92618822004, 92618822005, 92618822006, 92618822007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/26/22 13:03	
Arsenic	mg/L	ND	0.0050	0.0022	08/26/22 13:03	
Barium	mg/L	ND	0.0050	0.00067	08/26/22 13:03	
Beryllium	mg/L	ND	0.00050	0.000054	08/26/22 13:03	
Boron	mg/L	ND	0.040	0.0086	08/26/22 13:03	
Cadmium	mg/L	ND	0.00050	0.00011	08/26/22 13:03	
Chromium	mg/L	ND	0.0050	0.0011	08/26/22 13:03	
Cobalt	mg/L	ND	0.0050	0.00039	08/26/22 13:03	
Lead	mg/L	ND	0.0010	0.00089	08/26/22 13:03	
Lithium	mg/L	ND	0.030	0.00073	08/26/22 13:03	
Molybdenum	mg/L	ND	0.010	0.00074	08/26/22 13:03	
Selenium	mg/L	ND	0.0050	0.0014	08/26/22 13:03	
Thallium	mg/L	ND	0.0010	0.00018	08/26/22 13:03	

LABORATORY CONTROL SAMPLE: 3748678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	114	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.11	109	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3748679

3748680

Parameter	Units	92619514001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.11	118	114	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameter	Units	92619514001		3748679		3748680		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	46.0 ug/L	0.1	0.1	0.16	0.15	115	107	75-125	5	20			
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	110	106	75-125	4	20			
Boron	mg/L	11.9J ug/L	1	1	1.1	1.1	112	108	75-125	3	20			
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	108	105	75-125	2	20			
Chromium	mg/L	20.8 ug/L	0.1	0.1	0.14	0.14	118	115	75-125	2	20			
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	112	110	75-125	2	20			
Lead	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	2	20			
Lithium	mg/L	0.98J ug/L	0.1	0.1	0.11	0.11	108	106	75-125	2	20			
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	114	111	75-125	3	20			
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20			
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 719529 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618822008, 92618822009, 92618822010, 92618822011, 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

METHOD BLANK: 3750023 Matrix: Water
Associated Lab Samples: 92618822008, 92618822009, 92618822010, 92618822011, 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/26/22 17:19	
Arsenic	mg/L	ND	0.0050	0.0022	08/26/22 17:19	
Barium	mg/L	ND	0.0050	0.00067	08/26/22 17:19	
Beryllium	mg/L	ND	0.00050	0.000054	08/26/22 17:19	
Boron	mg/L	ND	0.040	0.0086	08/26/22 17:19	
Cadmium	mg/L	ND	0.00050	0.00011	08/26/22 17:19	
Chromium	mg/L	ND	0.0050	0.0011	08/26/22 17:19	
Cobalt	mg/L	ND	0.0050	0.00039	08/26/22 17:19	
Lead	mg/L	ND	0.0010	0.00089	08/26/22 17:19	
Lithium	mg/L	ND	0.030	0.00073	08/26/22 17:19	
Molybdenum	mg/L	ND	0.010	0.00074	08/26/22 17:19	
Selenium	mg/L	ND	0.0050	0.0014	08/26/22 17:19	
Thallium	mg/L	ND	0.0010	0.00018	08/26/22 17:19	

LABORATORY CONTROL SAMPLE: 3750024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	113	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3750025 3750026

Parameter	Units	92618822008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Parameter	Units	3750025		3750026		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618822008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	103	103	75-125	0	20
Barium	mg/L	0.022J	0.1	0.1	0.12	0.12	99	101	75-125	1	20
Beryllium	mg/L	0.00066J	0.1	0.1	0.095	0.096	94	95	75-125	1	20
Boron	mg/L	9.6	1	1	10.8	11.2	123	162	75-125	4	20 M1
Cadmium	mg/L	0.0013J	0.1	0.1	0.099	0.10	98	101	75-125	3	20
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	1	20
Cobalt	mg/L	0.082	0.1	0.1	0.17	0.18	92	96	75-125	2	20
Lead	mg/L	ND	0.1	0.1	0.093	0.091	93	90	75-125	2	20
Lithium	mg/L	ND	0.1	0.1	0.10J	0.10J	98	97	75-125		20
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	1	20
Selenium	mg/L	0.0089J	0.1	0.1	0.11	0.11	101	102	75-125	1	20
Thallium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 716252 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618822001

METHOD BLANK: 3733717 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/11/22 11:59	

LABORATORY CONTROL SAMPLE: 3733718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733719 3733720

Parameter	Units	92618822001		3733720		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0021	0.0019	84	75	75-125	10	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch:	719270	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618822002, 92618822003, 92618822004, 92618822005, 92618822006, 92618822007, 92618822008, 92618822009, 92618822010, 92618822011

METHOD BLANK: 3749002 Matrix: Water
Associated Lab Samples: 92618822002, 92618822003, 92618822004, 92618822005, 92618822006, 92618822007, 92618822008, 92618822009, 92618822010, 92618822011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/25/22 15:02	

LABORATORY CONTROL SAMPLE: 3749003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3749004 3749005

Parameter	Units	92618822003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	ND	ND	0	0	75-125		20	M1

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch:	724075	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

METHOD BLANK: 3772797 Matrix: Water
Associated Lab Samples: 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/19/22 13:54	

LABORATORY CONTROL SAMPLE: 3772798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3772799 3772800

Parameter	Units	92618822013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0022	82	85	75-125	4	20	H1

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 715874	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92618822001	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3731839 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/09/22 10:22	

LABORATORY CONTROL SAMPLE: 3731840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	80-120	

SAMPLE DUPLICATE: 3731841

Parameter	Units	92618822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	47.0	2	25	

SAMPLE DUPLICATE: 3731990

Parameter	Units	92618829005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	341	9	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 716401	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92618822002	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3734695 Matrix: Water
Associated Lab Samples: 92618822002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/11/22 10:44	

LABORATORY CONTROL SAMPLE: 3734696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	80-120	

SAMPLE DUPLICATE: 3734697

Parameter	Units	92619807001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	99.0	93.0	6	25	

SAMPLE DUPLICATE: 3735019

Parameter	Units	92618822002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	182	182	0	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 716055 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92618822001

METHOD BLANK: 3732994 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/09/22 21:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/09/22 21:00	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/09/22 21:00	

LABORATORY CONTROL SAMPLE: 3732995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 3732996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732997 3732998

Parameter	Units	92618216031 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	55.8	50	50	107	108	103	104	80-120	1	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718315 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92618822002

METHOD BLANK: 3744498 Matrix: Water
Associated Lab Samples: 92618822002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/19/22 14:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/19/22 14:24	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/19/22 14:24	

LABORATORY CONTROL SAMPLE: 3744499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.1	106	80-120	

LABORATORY CONTROL SAMPLE: 3744500

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744501 3744502

Parameter	Units	92619569010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec				
Alkalinity, Total as CaCO3	mg/L	ND	50	50	46.2	46.7	92	93	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744503 3744504

Parameter	Units	92619807012		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MS Result	MSD Result	% Rec	% Rec				
Alkalinity, Total as CaCO3	mg/L	189	50	50	238	233	97	88	80-120	2	25		

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718423 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618822003, 92618822004, 92618822005, 92618822006, 92618822007, 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

METHOD BLANK: 3744938 Matrix: Water
Associated Lab Samples: 92618822003, 92618822004, 92618822005, 92618822006, 92618822007, 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/22/22 12:39	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/22/22 12:39	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/22/22 12:39	

LABORATORY CONTROL SAMPLE: 3744939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3744940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744941 3744942

Parameter	Units	92618826016 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.3	50.6	101	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744943 3744944

Parameter	Units	92618822018 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	45.8	44.6	92	89	80-120	3	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718424 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618822008, 92618822009, 92618822010, 92618822011

METHOD BLANK: 3744945 Matrix: Water
Associated Lab Samples: 92618822008, 92618822009, 92618822010, 92618822011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/22/22 16:44	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/22/22 16:44	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/22/22 16:44	

LABORATORY CONTROL SAMPLE: 3744946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 3744947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744948 3744949

Parameter	Units	3744948		3744949		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92618822008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	ND	50	50	52.4	52.5	100	100	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3744950 3744951

Parameter	Units	3744950		3744951		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92620211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	29.5	50	50	77.5	78.6	96	98	80-120	1	25	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 715461 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: 92618822001

METHOD BLANK: 3730179 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/06/22 03:29	

LABORATORY CONTROL SAMPLE: 3730180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730181 3730182

Parameter	Units	92618725005		3730181		3730182		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	ND	0.5	0.5	0.44	0.48	86	94	80-120	8	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730183 3730184

Parameter	Units	92618728001		3730183		3730184		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	ND	0.5	0.5	0.53	0.53	104	105	80-120	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 716746 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: 92618822002

METHOD BLANK: 3736459 Matrix: Water
Associated Lab Samples: 92618822002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/12/22 05:18	

LABORATORY CONTROL SAMPLE: 3736460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736461 3736462

Parameter	Units	92619787008		3736461		3736462		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	106	108	80-120	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736463 3736464

Parameter	Units	92619893003		3736463		3736464		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Sulfide	mg/L	ND	0.5	0.5	0.49	0.53	98	105	80-120	7	10	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

QC Batch: 717375

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: 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019

METHOD BLANK: 3739685

Matrix: Water

Associated Lab Samples: 92618822013, 92618822014, 92618822015, 92618822016, 92618822017, 92618822018, 92618822019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/16/22 05:08	

LABORATORY CONTROL SAMPLE: 3739686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.44	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3739687 3739688

Parameter	Units	92620253016		3739687		3739688		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Sulfide	mg/L	ND	0.5	0.5	0.50	0.52	99	104	80-120	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3739689 3739690

Parameter	Units	92620379008		3739689		3739690		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Sulfide	mg/L	ND	0.5	0.5	0.49	0.52	99	104	80-120	5	10		

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 717376 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: 92618822020, 92618822021

METHOD BLANK: 3739691 Matrix: Water
Associated Lab Samples: 92618822020, 92618822021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/16/22 05:18	

LABORATORY CONTROL SAMPLE: 3739692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.42	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3739693 3739694

Parameter	Units	92618822020		3739694		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Sulfide	mg/L	ND	0.5	0.5	0.50	0.54	94	102	80-120	8	10	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 717960 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: 92618822003, 92618822004, 92618822005, 92618822006, 92618822007, 92618822008, 92618822009, 92618822010, 92618822011

METHOD BLANK: 3742818 Matrix: Water
Associated Lab Samples: 92618822003, 92618822004, 92618822005, 92618822006, 92618822007, 92618822008, 92618822009, 92618822010, 92618822011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/18/22 03:46	

LABORATORY CONTROL SAMPLE: 3742819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3742820 3742821

Parameter	Units	92620149001 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	0.50	0.50	100	101	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3742822 3742823

Parameter	Units	92618822009 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	0.49	0.47	97	94	80-120	4	10	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 716707 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: 92618822001

METHOD BLANK: 3736371 Matrix: Water
Associated Lab Samples: 92618822001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/12/22 10:25	
Fluoride	mg/L	ND	0.10	0.050	08/12/22 10:25	
Sulfate	mg/L	ND	1.0	0.50	08/12/22 10:25	

LABORATORY CONTROL SAMPLE: 3736372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.1	106	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736373 3736374

Parameter	Units	92618820001		3736374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	37.9	50	50	94.8	94.7	114	114	90-110	0	10 M1
Fluoride	mg/L	0.11	2.5	2.5	2.8	2.8	107	109	90-110	1	10
Sulfate	mg/L	105	50	50	152	150	94	90	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736375 3736376

Parameter	Units	92618820011		3736376		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	63.5	50	50	101	100	74	74	90-110	0	10 M1
Fluoride	mg/L	0.069J	2.5	2.5	2.8	2.7	108	106	90-110	2	10
Sulfate	mg/L	140	50	50	186	187	92	93	90-110	0	10

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 717795 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: 92618822002

METHOD BLANK: 3741783 Matrix: Water
Associated Lab Samples: 92618822002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/18/22 06:40	
Fluoride	mg/L	ND	0.10	0.050	08/18/22 06:40	
Sulfate	mg/L	ND	1.0	0.50	08/18/22 06:40	

LABORATORY CONTROL SAMPLE: 3741784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3741785 3741786

Parameter	Units	92618465001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec					
Chloride	mg/L	33.1	50	50	85.1	85.1	104	104	104	90-110	0	10	
Fluoride	mg/L	1.0	2.5	2.5	3.6	3.6	104	105	105	90-110	0	10	
Sulfate	mg/L	57.1	50	50	89.3	89.0	65	64	64	90-110	0	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3741787 3741788

Parameter	Units	92619807004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec					
Chloride	mg/L	2.4	50	50	55.1	55.1	106	105	105	90-110	0	10	
Fluoride	mg/L	0.12	2.5	2.5	2.6	2.7	101	103	103	90-110	2	10	
Sulfate	mg/L	116	50	50	157	157	83	83	83	90-110	0	10 M1	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718499 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: 92618822003, 92618822004, 92618822005, 92618822006

METHOD BLANK: 3745484 Matrix: Water
Associated Lab Samples: 92618822003, 92618822004, 92618822005, 92618822006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/21/22 02:50	
Fluoride	mg/L	ND	0.10	0.050	08/21/22 02:50	
Sulfate	mg/L	ND	1.0	0.50	08/21/22 02:50	

LABORATORY CONTROL SAMPLE: 3745485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.3	92	90-110	
Sulfate	mg/L	50	49.2	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745486 3745487

Parameter	Units	92621197001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.4	50	50	52.1	52.0	101	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	95	94	90-110	0	10	
Sulfate	mg/L	573	50	50	625	616	103	85	90-110	1	10 M1	

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch:	718643	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: 92618822007, 92618822008, 92618822009, 92618822010, 92618822011, 92618822013, 92618822014, 92618822015

METHOD BLANK: 3745968 Matrix: Water
Associated Lab Samples: 92618822007, 92618822008, 92618822009, 92618822010, 92618822011, 92618822013, 92618822014, 92618822015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/21/22 22:55	
Fluoride	mg/L	ND	0.10	0.050	08/21/22 22:55	
Sulfate	mg/L	ND	1.0	0.50	08/21/22 22:55	

LABORATORY CONTROL SAMPLE: 3745969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745970 3745971

Parameter	Units	92621513001		3745971		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	1.9	50	50	54.3	53.7	105	104	90-110	1	10
Fluoride	mg/L	2.6	2.5	2.5	3.8	1.8	46	-31	90-110	69	10 M1,R1
Sulfate	mg/L	6.9	50	50	58.2	57.5	103	101	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745972 3745973

Parameter	Units	92618822011		3745973		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	ND	50	50	52.3	52.5	104	105	90-110	0	10
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	108	90-110	1	10
Sulfate	mg/L	ND	50	50	51.1	51.2	102	102	90-110	0	10

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QUALITY CONTROL DATA

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

QC Batch: 718644 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: 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

METHOD BLANK: 3745974 Matrix: Water
Associated Lab Samples: 92618822016, 92618822017, 92618822018, 92618822019, 92618822020, 92618822021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/22 08:12	
Fluoride	mg/L	ND	0.10	0.050	08/22/22 08:12	
Sulfate	mg/L	ND	1.0	0.50	08/22/22 08:12	

LABORATORY CONTROL SAMPLE: 3745975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745976 3745977

Parameter	Units	92618822016		92618822017		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.								
Chloride	mg/L	148	148	50	50	184	186	71	76	90-110	1	10	M1
Fluoride	mg/L	0.086J	0.086J	2.5	2.5	2.6	2.6	100	102	90-110	2	10	
Sulfate	mg/L	423	423	50	50	444	451	42	57	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3745978 3745979

Parameter	Units	92619003009		92619003009		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.								
Chloride	mg/L	42.1	42.1	50	50	94.5	94.7	105	105	90-110	0	10	
Fluoride	mg/L	0.056J	0.056J	2.5	2.5	2.5	2.6	99	101	90-110	2	10	
Sulfate	mg/L	2030	2030	50	50	2070	2070	93	81	90-110	0	10	M1

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QUALIFIERS

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

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.

H1 Analysis conducted outside the EPA method holding time.

H2 Extraction or preparation conducted outside EPA method holding time.

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

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2-Revised Report
Pace Project No.: 92618822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618822001	HGWA-4				
92618822002	HGWA-42D				
92618822003	HGWC-14				
92618822004	HGWC-15				
92618822005	MW-21D				
92618822006	MW-22				
92618822007	MW-23D				
92618822008	MW-35				
92618822009	MW-51				
92618822013	HGWA-5				
92618822014	HGWA-6				
92618822015	HGWC-16				
92618822016	HGWC-17				
92618822017	HGWC-18				
92618822018	MW-33				
92618822019	MW-34D				
92618822020	MW-37D				
92618822001	HGWA-4	EPA 3010A	716032	EPA 6010D	716586
92618822002	HGWA-42D	EPA 3010A	717238	EPA 6010D	717309
92618822003	HGWC-14	EPA 3010A	718057	EPA 6010D	718149
92618822004	HGWC-15	EPA 3010A	718057	EPA 6010D	718149
92618822005	MW-21D	EPA 3010A	718461	EPA 6010D	718515
92618822006	MW-22	EPA 3010A	718461	EPA 6010D	718515
92618822007	MW-23D	EPA 3010A	718461	EPA 6010D	718515
92618822008	MW-35	EPA 3010A	718461	EPA 6010D	718515
92618822009	MW-51	EPA 3010A	718461	EPA 6010D	718515
92618822010	EB-2	EPA 3010A	718461	EPA 6010D	718515
92618822011	FB-2	EPA 3010A	718461	EPA 6010D	718515
92618822013	HGWA-5	EPA 3010A	718461	EPA 6010D	718515
92618822014	HGWA-6	EPA 3010A	718461	EPA 6010D	718515
92618822015	HGWC-16	EPA 3010A	718461	EPA 6010D	718515
92618822016	HGWC-17	EPA 3010A	718461	EPA 6010D	718515
92618822017	HGWC-18	EPA 3010A	718461	EPA 6010D	718515
92618822018	MW-33	EPA 3010A	718461	EPA 6010D	718515
92618822019	MW-34D	EPA 3010A	718462	EPA 6010D	718518
92618822020	MW-37D	EPA 3010A	718462	EPA 6010D	718518
92618822021	DUP-2	EPA 3010A	718462	EPA 6010D	718518
92618822001	HGWA-4	EPA 3005A	715918	EPA 6020B	716063
92618822002	HGWA-42D	EPA 3005A	717017	EPA 6020B	717714
92618822003	HGWC-14	EPA 3005A	719224	EPA 6020B	719388
92618822004	HGWC-15	EPA 3005A	719224	EPA 6020B	719388
92618822005	MW-21D	EPA 3005A	719224	EPA 6020B	719388
92618822006	MW-22	EPA 3005A	719224	EPA 6020B	719388
92618822007	MW-23D	EPA 3005A	719224	EPA 6020B	719388

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618822008	MW-35	EPA 3005A	719529	EPA 6020B	719606
92618822009	MW-51	EPA 3005A	719529	EPA 6020B	719606
92618822010	EB-2	EPA 3005A	719529	EPA 6020B	719606
92618822011	FB-2	EPA 3005A	719529	EPA 6020B	719606
92618822013	HGWA-5	EPA 3005A	719529	EPA 6020B	719606
92618822014	HGWA-6	EPA 3005A	719529	EPA 6020B	719606
92618822015	HGWC-16	EPA 3005A	719529	EPA 6020B	719606
92618822016	HGWC-17	EPA 3005A	719529	EPA 6020B	719606
92618822017	HGWC-18	EPA 3005A	719529	EPA 6020B	719606
92618822018	MW-33	EPA 3005A	719529	EPA 6020B	719606
92618822019	MW-34D	EPA 3005A	719529	EPA 6020B	719606
92618822020	MW-37D	EPA 3005A	719529	EPA 6020B	719606
92618822021	DUP-2	EPA 3005A	719529	EPA 6020B	719606
92618822001	HGWA-4	EPA 7470A	716252	EPA 7470A	716491
92618822002	HGWA-42D	EPA 7470A	719270	EPA 7470A	719542
92618822003	HGWC-14	EPA 7470A	719270	EPA 7470A	719542
92618822004	HGWC-15	EPA 7470A	719270	EPA 7470A	719542
92618822005	MW-21D	EPA 7470A	719270	EPA 7470A	719542
92618822006	MW-22	EPA 7470A	719270	EPA 7470A	719542
92618822007	MW-23D	EPA 7470A	719270	EPA 7470A	719542
92618822008	MW-35	EPA 7470A	719270	EPA 7470A	719542
92618822009	MW-51	EPA 7470A	719270	EPA 7470A	719542
92618822010	EB-2	EPA 7470A	719270	EPA 7470A	719542
92618822011	FB-2	EPA 7470A	719270	EPA 7470A	719542
92618822013	HGWA-5	EPA 7470A	724075	EPA 7470A	724149
92618822014	HGWA-6	EPA 7470A	724075	EPA 7470A	724149
92618822015	HGWC-16	EPA 7470A	724075	EPA 7470A	724149
92618822016	HGWC-17	EPA 7470A	724075	EPA 7470A	724149
92618822017	HGWC-18	EPA 7470A	724075	EPA 7470A	724149
92618822018	MW-33	EPA 7470A	724075	EPA 7470A	724149
92618822019	MW-34D	EPA 7470A	724075	EPA 7470A	724149
92618822020	MW-37D	EPA 7470A	724075	EPA 7470A	724149
92618822021	DUP-2	EPA 7470A	724075	EPA 7470A	724149
92618822001	HGWA-4	SM 2540C-2015	715874		
92618822002	HGWA-42D	SM 2540C-2015	716401		
92618822003	HGWC-14	SM 2540C-2015	717426		
92618822004	HGWC-15	SM 2540C-2015	717426		
92618822005	MW-21D	SM 2540C-2015	717426		
92618822006	MW-22	SM 2540C-2015	717426		
92618822007	MW-23D	SM 2540C-2015	717426		
92618822008	MW-35	SM 2540C-2015	717426		
92618822009	MW-51	SM 2540C-2015	717426		
92618822010	EB-2	SM 2540C-2015	717426		
92618822011	FB-2	SM 2540C-2015	717426		
92618822013	HGWA-5	SM 2540C-2015	717426		
92618822014	HGWA-6	SM 2540C-2015	717426		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618822015	HGWC-16	SM 2540C-2015	717426		
92618822016	HGWC-17	SM 2540C-2015	717426		
92618822017	HGWC-18	SM 2540C-2015	717426		
92618822018	MW-33	SM 2540C-2015	717426		
92618822019	MW-34D	SM 2540C-2015	717426		
92618822020	MW-37D	SM 2540C-2015	717426		
92618822021	DUP-2	SM 2540C-2015	717426		
92618822001	HGWA-4	SM 2320B-2011	716055		
92618822002	HGWA-42D	SM 2320B-2011	718315		
92618822003	HGWC-14	SM 2320B-2011	718423		
92618822004	HGWC-15	SM 2320B-2011	718423		
92618822005	MW-21D	SM 2320B-2011	718423		
92618822006	MW-22	SM 2320B-2011	718423		
92618822007	MW-23D	SM 2320B-2011	718423		
92618822008	MW-35	SM 2320B-2011	718424		
92618822009	MW-51	SM 2320B-2011	718424		
92618822010	EB-2	SM 2320B-2011	718424		
92618822011	FB-2	SM 2320B-2011	718424		
92618822013	HGWA-5	SM 2320B-2011	718423		
92618822014	HGWA-6	SM 2320B-2011	718423		
92618822015	HGWC-16	SM 2320B-2011	718423		
92618822016	HGWC-17	SM 2320B-2011	718423		
92618822017	HGWC-18	SM 2320B-2011	718423		
92618822018	MW-33	SM 2320B-2011	718423		
92618822019	MW-34D	SM 2320B-2011	718423		
92618822020	MW-37D	SM 2320B-2011	718423		
92618822021	DUP-2	SM 2320B-2011	718423		
92618822001	HGWA-4	SM 4500-S2D-2011	715461		
92618822002	HGWA-42D	SM 4500-S2D-2011	716746		
92618822003	HGWC-14	SM 4500-S2D-2011	717960		
92618822004	HGWC-15	SM 4500-S2D-2011	717960		
92618822005	MW-21D	SM 4500-S2D-2011	717960		
92618822006	MW-22	SM 4500-S2D-2011	717960		
92618822007	MW-23D	SM 4500-S2D-2011	717960		
92618822008	MW-35	SM 4500-S2D-2011	717960		
92618822009	MW-51	SM 4500-S2D-2011	717960		
92618822010	EB-2	SM 4500-S2D-2011	717960		
92618822011	FB-2	SM 4500-S2D-2011	717960		
92618822013	HGWA-5	SM 4500-S2D-2011	717375		
92618822014	HGWA-6	SM 4500-S2D-2011	717375		
92618822015	HGWC-16	SM 4500-S2D-2011	717375		
92618822016	HGWC-17	SM 4500-S2D-2011	717375		
92618822017	HGWC-18	SM 4500-S2D-2011	717375		
92618822018	MW-33	SM 4500-S2D-2011	717375		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2-Revised Report

Pace Project No.: 92618822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618822019	MW-34D	SM 4500-S2D-2011	717375		
92618822020	MW-37D	SM 4500-S2D-2011	717376		
92618822021	DUP-2	SM 4500-S2D-2011	717376		
92618822001	HGWA-4	EPA 300.0 Rev 2.1 1993	716707		
92618822002	HGWA-42D	EPA 300.0 Rev 2.1 1993	717795		
92618822003	HGWC-14	EPA 300.0 Rev 2.1 1993	718499		
92618822004	HGWC-15	EPA 300.0 Rev 2.1 1993	718499		
92618822005	MW-21D	EPA 300.0 Rev 2.1 1993	718499		
92618822006	MW-22	EPA 300.0 Rev 2.1 1993	718499		
92618822007	MW-23D	EPA 300.0 Rev 2.1 1993	718643		
92618822008	MW-35	EPA 300.0 Rev 2.1 1993	718643		
92618822009	MW-51	EPA 300.0 Rev 2.1 1993	718643		
92618822010	EB-2	EPA 300.0 Rev 2.1 1993	718643		
92618822011	FB-2	EPA 300.0 Rev 2.1 1993	718643		
92618822013	HGWA-5	EPA 300.0 Rev 2.1 1993	718643		
92618822014	HGWA-6	EPA 300.0 Rev 2.1 1993	718643		
92618822015	HGWC-16	EPA 300.0 Rev 2.1 1993	718643		
92618822016	HGWC-17	EPA 300.0 Rev 2.1 1993	718644		
92618822017	HGWC-18	EPA 300.0 Rev 2.1 1993	718644		
92618822018	MW-33	EPA 300.0 Rev 2.1 1993	718644		
92618822019	MW-34D	EPA 300.0 Rev 2.1 1993	718644		
92618822020	MW-37D	EPA 300.0 Rev 2.1 1993	718644		
92618822021	DUP-2	EPA 300.0 Rev 2.1 1993	718644		

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:

GA Power

Project #:

WO#: 92618822



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 5/4/23 CAV

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet

Blue

None

Cooler Temp:

3.3

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.3

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 type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W		
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 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-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92618822

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

Project #

PM: NMG

Due Date: 08/18/22

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

CLIENT: GA-GA Power

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

***Check all unpreserved Nitrates for chlorine

itech#	Sample Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
BP3U-250 mL Plastic Unpreserved (N/A)		2											
BP2U-500 mL Plastic Unpreserved (N/A)		1											
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-)													
AG3S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
DG5A-250 mL Amber NH4Cl (N/A)(Cl-)													
DG9H-40 mL VOA HCl (N/A)													
VG9F-40 mL VOA Na2S2O3 (N/A)													
VG9J-40 mL VOA Unpreserved (N/A)													
DG9M-40 mL VOA H3PO4 (N/A)													
DG9S-40 mL VOA H2SO4 (N/A)													
V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
SP5F-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)													

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Meridianville Atlanta Kernersville

WO#: 92618822

PM: NMG Due Date: 08/18/22

CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name:

Project #

GA power

Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 08/10/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 5.4 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): 5.4

USDA Regulated Soil (N/A, water sample)

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

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

Comments/Discrepancy:

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

Field Data Required? Yes No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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# : 92618822**

PM: NMG

Due Date: 08/18/22

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-)	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)	DG94-250 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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC# Title: ENV-FRM-HUNT-0083 V01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mooresville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project

WO#: 92618822

PM: NMG

Due Date: 08/18/22

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/12/22 [initials]

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet

Blue

None

Cooler Temp:

2.1

Correction Factor: Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.1

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 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 COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W	
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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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, LUHg

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

***Check all unpreserved Nitrates for chlorine

WO#: 92618822

PM: NMG

Due Date: 08/18/22

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)	DG94-250 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)	DG9J-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	2	1																											
9	2	1																											
10	2	1																											
11	2	1																											
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 #

Item#	BP40U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP30U-250 mL Plastic Unpreserved (N/A)	BP20U-500 mL Plastic Unpreserved (N/A)	BP10U-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)	BP4E-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG10U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG30U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 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)	DG9L-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-)	V5GU-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																													
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 (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

October 10, 2022

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

RE: Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 04, 2022 and August 12, 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:

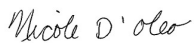
- Pace Analytical Services - Greensburg

Revision 1: Issued on 10/10/22 to include the Total Radium calculation for HGWA-42D, and to include additional COCs.

Revision 2: Issued on 10/10/22 to correctly report the collection dates for several samples.

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: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power

Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwast, Geosyntec
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618776001	HGWA-4	Water	08/02/22 15:44	08/04/22 12:30
92618776002	HGWA-42D	Water	08/09/22 17:10	08/10/22 12:30
92618776003	HGWC-14	Water	08/11/22 13:52	08/12/22 11:25
92618776004	HGWC-15	Water	08/11/22 13:00	08/12/22 11:25
92618776005	MW-21D	Water	08/11/22 09:35	08/12/22 11:25
92618776006	MW-22	Water	08/11/22 09:48	08/12/22 11:25
92618776007	MW-23D	Water	08/11/22 11:47	08/12/22 11:25
92618776008	MW-35	Water	08/11/22 09:19	08/12/22 11:25
92618776009	MW-51	Water	08/11/22 11:20	08/12/22 11:25
92618776010	EB-2	Water	08/11/22 13:25	08/12/22 11:25
92618776011	FB-2	Water	08/11/22 13:40	08/12/22 11:25
92618776012	HGWA-5	Water	08/10/22 09:57	08/12/22 11:25
92618776013	HGWA-6	Water	08/10/22 09:10	08/12/22 11:25
92618776014	HGWC-16	Water	08/10/22 16:01	08/12/22 11:25
92618776015	HGWC-17	Water	08/10/22 14:01	08/12/22 11:25
92618776016	HGWC-18	Water	08/10/22 11:57	08/12/22 11:25
92618776017	MW-33	Water	08/10/22 16:10	08/12/22 11:25
92618776018	MW-34D	Water	08/10/22 14:00	08/12/22 11:25
92618776019	MW-37D	Water	08/10/22 16:30	08/12/22 11:25
92618776020	DUP-2	Water	08/10/22 00:00	08/12/22 11:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618776001	HGWA-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776002	HGWA-42D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776003	HGWC-14	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776004	HGWC-15	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776005	MW-21D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776006	MW-22	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776007	MW-23D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776008	MW-35	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776009	MW-51	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776010	EB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776011	FB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776012	HGWA-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776013	HGWA-6	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618776014	HGWC-16	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92618776015	HGWC-17	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776016	HGWC-18	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618776017	MW-33	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92618776018	MW-34D	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618776019	MW-37D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618776020	DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618776001	HGWA-4					
EPA 9315	Radium-226	-0.0177 ± 0.151 (0.423) C:87% T:NA	pCi/L		09/07/22 11:06	
EPA 9320	Radium-228	0.963 ± 0.471 (0.810) C:73% T:85%	pCi/L		08/29/22 14:44	
Total Radium Calculation	Total Radium	0.963 ± 0.622 (1.23)	pCi/L		09/08/22 18:24	
92618776002	HGWA-42D					
EPA 9315	Radium-226	0.142 ± 0.140 (0.270) C:95% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	0.0158 ± 0.319 (0.742) C:78% T:85%	pCi/L		08/29/22 14:44	
Total Radium Calculation	Total Radium	0.158 ± 0.459 (1.01)	pCi/L		10/07/22 16:16	
92618776003	HGWC-14					
EPA 9315	Radium-226	0.213 ± 0.153 (0.251) C:95% T:NA	pCi/L		09/12/22 09:16	
EPA 9320	Radium-228	1.10 ± 0.394 (0.543) C:82% T:88%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	1.31 ± 0.547 (0.794)	pCi/L		09/12/22 15:39	
92618776004	HGWC-15					
EPA 9315	Radium-226	-0.00975 ± 0.0740 (0.227) C:91% T:NA	pCi/L		09/12/22 09:16	
EPA 9320	Radium-228	0.656 ± 0.343 (0.604) C:82% T:93%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	0.656 ± 0.417 (0.831)	pCi/L		09/12/22 15:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618776005	MW-21D					
EPA 9315	Radium-226	-0.00641 ± 0.0897 (0.257) C:93% T:NA	pCi/L		09/12/22 09:16	
EPA 9320	Radium-228	0.691 ± 0.341 (0.579) C:79% T:93%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	0.691 ± 0.431 (0.836)	pCi/L		09/12/22 15:39	
92618776006	MW-22					
EPA 9315	Radium-226	-0.0690 ± 0.0850 (0.296) C:92% T:NA	pCi/L		09/12/22 09:16	
EPA 9320	Radium-228	0.789 ± 0.329 (0.519) C:90% T:96%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	0.789 ± 0.414 (0.815)	pCi/L		09/12/22 15:39	
92618776007	MW-23D					
EPA 9315	Radium-226	0.186 ± 0.140 (0.226) C:95% T:NA	pCi/L		09/12/22 08:26	
EPA 9320	Radium-228	0.204 ± 0.265 (0.563) C:82% T:88%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	0.390 ± 0.405 (0.789)	pCi/L		09/13/22 17:31	
92618776008	MW-35					
EPA 9315	Radium-226	0.323 ± 0.179 (0.249) C:94% T:NA	pCi/L		09/12/22 08:26	
EPA 9320	Radium-228	1.39 ± 0.483 (0.677) C:76% T:90%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	1.71 ± 0.662 (0.926)	pCi/L		09/13/22 17:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618776009	MW-51					
EPA 9315	Radium-226	0.0623 ± 0.108 (0.241) C:94% T:NA	pCi/L		09/12/22 08:26	
EPA 9320	Radium-228	0.958 ± 0.433 (0.709) C:71% T:86%	pCi/L		09/06/22 11:54	
Total Radium Calculation	Total Radium	1.02 ± 0.541 (0.950)	pCi/L		09/13/22 17:31	
92618776010	EB-2					
EPA 9315	Radium-226	-0.00260 ± 0.0761 (0.226) C:91% T:NA	pCi/L		09/12/22 08:26	
EPA 9320	Radium-228	0.828 ± 0.343 (0.516) C:79% T:92%	pCi/L		09/06/22 11:54	
Total Radium Calculation	Total Radium	0.828 ± 0.419 (0.742)	pCi/L		09/13/22 17:31	
92618776011	FB-2					
EPA 9315	Radium-226	0.0564 ± 0.100 (0.226) C:93% T:NA	pCi/L		09/12/22 11:37	
EPA 9320	Radium-228	0.590 ± 0.352 (0.646) C:79% T:86%	pCi/L		09/06/22 11:54	
Total Radium Calculation	Total Radium	0.646 ± 0.452 (0.872)	pCi/L		09/13/22 17:31	
92618776012	HGWA-5					
EPA 9315	Radium-226	0.0919 ± 0.120 (0.253) C:92% T:NA	pCi/L		09/12/22 11:37	
EPA 9320	Radium-228	0.476 ± 0.317 (0.590) C:75% T:90%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	0.568 ± 0.437 (0.843)	pCi/L		09/13/22 17:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618776013	HGWA-6					
EPA 9315	Radium-226	0.112 ± 0.137 (0.282) C:92% T:NA	pCi/L		09/12/22 11:37	
EPA 9320	Radium-228	0.536 ± 0.330 (0.602) C:77% T:89%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	0.648 ± 0.467 (0.884)	pCi/L		09/13/22 17:31	
92618776014	HGWC-16					
EPA 9315	Radium-226	0.120 ± 0.115 (0.202) C:90% T:NA	pCi/L		09/12/22 11:37	
EPA 9320	Radium-228	0.129 ± 0.271 (0.600) C:79% T:93%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	0.249 ± 0.386 (0.802)	pCi/L		09/13/22 17:31	
92618776015	HGWC-17					
EPA 9315	Radium-226	0.0404 ± 0.103 (0.249) C:88% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	0.321 ± 0.339 (0.703) C:77% T:89%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	0.361 ± 0.442 (0.952)	pCi/L		09/13/22 17:31	
92618776016	HGWC-18					
EPA 9315	Radium-226	0.381 ± 0.189 (0.252) C:95% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	1.08 ± 0.421 (0.637) C:81% T:88%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	1.46 ± 0.610 (0.889)	pCi/L		09/13/22 17:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618776017	MW-33					
EPA 9315	Radium-226	0.443 ± 0.203 (0.246) C:96% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	1.08 ± 0.417 (0.610) C:78% T:89%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	1.52 ± 0.620 (0.856)	pCi/L		09/13/22 17:31	
92618776018	MW-34D					
EPA 9315	Radium-226	0.204 ± 0.136 (0.203) C:98% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	0.843 ± 0.413 (0.710) C:75% T:91%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	1.05 ± 0.549 (0.913)	pCi/L		09/13/22 17:31	
92618776019	MW-37D					
EPA 9315	Radium-226	0.0596 ± 0.108 (0.245) C:95% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	0.445 ± 0.317 (0.600) C:75% T:87%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	0.505 ± 0.425 (0.845)	pCi/L		09/13/22 17:31	
92618776020	DUP-2					
EPA 9315	Radium-226	0.190 ± 0.158 (0.290) C:92% T:NA	pCi/L		09/12/22 12:31	
EPA 9320	Radium-228	1.11 ± 0.430 (0.630) C:75% T:89%	pCi/L		09/06/22 15:00	
Total Radium Calculation	Total Radium	1.30 ± 0.588 (0.920)	pCi/L		09/13/22 17:31	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: HGWA-4 **Lab ID: 92618776001** Collected: 08/02/22 15:44 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0177 ± 0.151 (0.423) C:87% T:NA	pCi/L	09/07/22 11:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.963 ± 0.471 (0.810) C:73% T:85%	pCi/L	08/29/22 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.963 ± 0.622 (1.23)	pCi/L	09/08/22 18:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HGWA-42D Lab ID: 92618776002 Collected: 08/09/22 17:10 Received: 08/10/22 12:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.142 ± 0.140 (0.270) C:95% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0158 ± 0.319 (0.742) C:78% T:85%	pCi/L	08/29/22 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.158 ± 0.459 (1.01)	pCi/L	10/07/22 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: HGWC-14 **Lab ID: 92618776003** Collected: 08/11/22 13:52 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.213 ± 0.153 (0.251) C:95% T:NA	pCi/L	09/12/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.394 (0.543) C:82% T:88%	pCi/L	09/06/22 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.31 ± 0.547 (0.794)	pCi/L	09/12/22 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HGWC-15 Lab ID: 92618776004 Collected: 08/11/22 13:00 Received: 08/12/22 11:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.00975 ± 0.0740 (0.227) C:91% T:NA	pCi/L	09/12/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.656 ± 0.343 (0.604) C:82% T:93%	pCi/L	09/06/22 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.656 ± 0.417 (0.831)	pCi/L	09/12/22 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-21D Lab ID: 92618776005 Collected: 08/11/22 09:35 Received: 08/12/22 11:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.00641 ± 0.0897 (0.257) C:93% T:NA	pCi/L	09/12/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.691 ± 0.341 (0.579) C:79% T:93%	pCi/L	09/06/22 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.691 ± 0.431 (0.836)	pCi/L	09/12/22 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-22 Lab ID: 92618776006 Collected: 08/11/22 09:48 Received: 08/12/22 11:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0690 ± 0.0850 (0.296) C:92% T:NA	pCi/L	09/12/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.789 ± 0.329 (0.519) C:90% T:96%	pCi/L	09/06/22 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.789 ± 0.414 (0.815)	pCi/L	09/12/22 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: MW-23D **Lab ID: 92618776007** Collected: 08/11/22 11:47 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.186 ± 0.140 (0.226) C:95% T:NA	pCi/L	09/12/22 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.204 ± 0.265 (0.563) C:82% T:88%	pCi/L	09/06/22 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.390 ± 0.405 (0.789)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: MW-35 **Lab ID: 92618776008** Collected: 08/11/22 09:19 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.323 ± 0.179 (0.249) C:94% T:NA	pCi/L	09/12/22 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.39 ± 0.483 (0.677) C:76% T:90%	pCi/L	09/06/22 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.662 (0.926)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: MW-51 **Lab ID: 92618776009** Collected: 08/11/22 11:20 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0623 ± 0.108 (0.241) C:94% T:NA	pCi/L	09/12/22 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.958 ± 0.433 (0.709) C:71% T:86%	pCi/L	09/06/22 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.02 ± 0.541 (0.950)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-2 Lab ID: 92618776010 Collected: 08/11/22 13:25 Received: 08/12/22 11:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.00260 ± 0.0761 (0.226) C:91% T:NA	pCi/L	09/12/22 08:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.828 ± 0.343 (0.516) C:79% T:92%	pCi/L	09/06/22 11:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.828 ± 0.419 (0.742)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-2 Lab ID: 92618776011 Collected: 08/11/22 13:40 Received: 08/12/22 11:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0564 ± 0.100 (0.226) C:93% T:NA	pCi/L	09/12/22 11:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.590 ± 0.352 (0.646) C:79% T:86%	pCi/L	09/06/22 11:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.646 ± 0.452 (0.872)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: HGWA-5 **Lab ID: 92618776012** Collected: 08/10/22 09:57 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0919 ± 0.120 (0.253) C:92% T:NA	pCi/L	09/12/22 11:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.476 ± 0.317 (0.590) C:75% T:90%	pCi/L	09/06/22 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.568 ± 0.437 (0.843)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HGWA-6 Lab ID: 92618776013 Collected: 08/10/22 09:10 Received: 08/12/22 11:25 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.112 ± 0.137 (0.282) C:92% T:NA	pCi/L	09/12/22 11:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.536 ± 0.330 (0.602) C:77% T:89%	pCi/L	09/06/22 15:00	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.648 ± 0.467 (0.884)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: HGWC-16 **Lab ID: 92618776014** Collected: 08/10/22 16:01 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.120 ± 0.115 (0.202) C:90% T:NA	pCi/L	09/12/22 11:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.129 ± 0.271 (0.600) C:79% T:93%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.249 ± 0.386 (0.802)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: HGWC-17 **Lab ID: 92618776015** Collected: 08/10/22 14:01 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0404 ± 0.103 (0.249) C:88% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.321 ± 0.339 (0.703) C:77% T:89%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.361 ± 0.442 (0.952)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: HGWC-18 **Lab ID: 92618776016** Collected: 08/10/22 11:57 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.381 ± 0.189 (0.252) C:95% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.08 ± 0.421 (0.637) C:81% T:88%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.46 ± 0.610 (0.889)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: MW-33 **Lab ID: 92618776017** Collected: 08/10/22 16:10 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.443 ± 0.203 (0.246) C:96% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.08 ± 0.417 (0.610) C:78% T:89%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.52 ± 0.620 (0.856)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: MW-34D **Lab ID: 92618776018** Collected: 08/10/22 14:00 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.204 ± 0.136 (0.203) C:98% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.843 ± 0.413 (0.710) C:75% T:91%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05 ± 0.549 (0.913)	pCi/L	09/13/22 17:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: MW-37D **Lab ID: 92618776019** Collected: 08/10/22 16:30 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0596 ± 0.108 (0.245) C:95% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.445 ± 0.317 (0.600) C:75% T:87%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.505 ± 0.425 (0.845)	pCi/L	09/13/22 17:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

Sample: DUP-2 **Lab ID: 92618776020** Collected: 08/10/22 00:00 Received: 08/12/22 11:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.190 ± 0.158 (0.290) C:92% T:NA	pCi/L	09/12/22 12:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.11 ± 0.430 (0.630) C:75% T:89%	pCi/L	09/06/22 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.30 ± 0.588 (0.920)	pCi/L	09/13/22 17:31	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

QC Batch: 530296

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618776003, 92618776004, 92618776005, 92618776006

METHOD BLANK: 2572288

Matrix: Water

Associated Lab Samples: 92618776003, 92618776004, 92618776005, 92618776006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0685 ± 0.143 (0.332) C:93% T:NA	pCi/L	09/12/22 08:36	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

QC Batch: 526536

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618776003, 92618776004, 92618776005, 92618776006, 92618776007, 92618776008, 92618776009, 92618776010, 92618776011, 92618776012, 92618776013, 92618776014, 92618776015, 92618776016, 92618776017, 92618776018, 92618776019, 92618776020

METHOD BLANK: 2554429

Matrix: Water

Associated Lab Samples: 92618776003, 92618776004, 92618776005, 92618776006, 92618776007, 92618776008, 92618776009, 92618776010, 92618776011, 92618776012, 92618776013, 92618776014, 92618776015, 92618776016, 92618776017, 92618776018, 92618776019, 92618776020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.422 ± 0.317 (0.610) C:69% T:91%	pCi/L	09/06/22 11:53	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

QC Batch: 525947

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618776001, 92618776002

METHOD BLANK: 2551553

Matrix: Water

Associated Lab Samples: 92618776001, 92618776002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.521 ± 0.305 (0.543) C:83% T:91%	pCi/L	08/29/22 12:28	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

QC Batch: 530300

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618776002, 92618776007, 92618776008, 92618776009, 92618776010, 92618776011, 92618776012, 92618776013, 92618776014, 92618776015, 92618776016, 92618776017, 92618776018, 92618776019, 92618776020

METHOD BLANK: 2572293

Matrix: Water

Associated Lab Samples: 92618776002, 92618776007, 92618776008, 92618776009, 92618776010, 92618776011, 92618776012, 92618776013, 92618776014, 92618776015, 92618776016, 92618776017, 92618776018, 92618776019, 92618776020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0968 ± 0.114 (0.224) C:89% T:NA	pCi/L	09/12/22 08:26	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

QC Batch: 525513

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618776001

METHOD BLANK: 2549243

Matrix: Water

Associated Lab Samples: 92618776001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0698 ± 0.211 (0.509) C:93% T:NA	pCi/L	09/07/22 08:49	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HAMMOND AP-2 RAD-Revised Report

Pace Project No.: 92618776

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618776001	HGWA-4	EPA 9315	525513		
92618776002	HGWA-42D	EPA 9315	530300		
92618776003	HGWC-14	EPA 9315	530296		
92618776004	HGWC-15	EPA 9315	530296		
92618776005	MW-21D	EPA 9315	530296		
92618776006	MW-22	EPA 9315	530296		
92618776007	MW-23D	EPA 9315	530300		
92618776008	MW-35	EPA 9315	530300		
92618776009	MW-51	EPA 9315	530300		
92618776010	EB-2	EPA 9315	530300		
92618776011	FB-2	EPA 9315	530300		
92618776012	HGWA-5	EPA 9315	530300		
92618776013	HGWA-6	EPA 9315	530300		
92618776014	HGWC-16	EPA 9315	530300		
92618776015	HGWC-17	EPA 9315	530300		
92618776016	HGWC-18	EPA 9315	530300		
92618776017	MW-33	EPA 9315	530300		
92618776018	MW-34D	EPA 9315	530300		
92618776019	MW-37D	EPA 9315	530300		
92618776020	DUP-2	EPA 9315	530300		
92618776001	HGWA-4	EPA 9320	525947		
92618776002	HGWA-42D	EPA 9320	525947		
92618776003	HGWC-14	EPA 9320	526536		
92618776004	HGWC-15	EPA 9320	526536		
92618776005	MW-21D	EPA 9320	526536		
92618776006	MW-22	EPA 9320	526536		
92618776007	MW-23D	EPA 9320	526536		
92618776008	MW-35	EPA 9320	526536		
92618776009	MW-51	EPA 9320	526536		
92618776010	EB-2	EPA 9320	526536		
92618776011	FB-2	EPA 9320	526536		
92618776012	HGWA-5	EPA 9320	526536		
92618776013	HGWA-6	EPA 9320	526536		
92618776014	HGWC-16	EPA 9320	526536		
92618776015	HGWC-17	EPA 9320	526536		
92618776016	HGWC-18	EPA 9320	526536		
92618776017	MW-33	EPA 9320	526536		
92618776018	MW-34D	EPA 9320	526536		
92618776019	MW-37D	EPA 9320	526536		
92618776020	DUP-2	EPA 9320	526536		
92618776001	HGWA-4	Total Radium Calculation	531569		
92618776002	HGWA-42D	Total Radium Calculation	538384		
92618776003	HGWC-14	Total Radium Calculation	532141		
92618776004	HGWC-15	Total Radium Calculation	532141		
92618776005	MW-21D	Total Radium Calculation	532141		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-2 RAD-Revised Report
Pace Project No.: 92618776

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618776006	MW-22	Total Radium Calculation	532141		
92618776007	MW-23D	Total Radium Calculation	532539		
92618776008	MW-35	Total Radium Calculation	532539		
92618776009	MW-51	Total Radium Calculation	532539		
92618776010	EB-2	Total Radium Calculation	532539		
92618776011	FB-2	Total Radium Calculation	532539		
92618776012	HGWA-5	Total Radium Calculation	532539		
92618776013	HGWA-6	Total Radium Calculation	532539		
92618776014	HGWC-16	Total Radium Calculation	532539		
92618776015	HGWC-17	Total Radium Calculation	532539		
92618776016	HGWC-18	Total Radium Calculation	532539		
92618776017	MW-33	Total Radium Calculation	532539		
92618776018	MW-34D	Total Radium Calculation	532539		
92618776019	MW-37D	Total Radium Calculation	532539		
92618776020	DUP-2	Total Radium Calculation	532539		

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:

GA Power

Project #:

WO#: 92618776



Courier: Commercial Fed Ex UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

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

Date/Initials Person Examining Contents: 5/12/22

Biological Tissue Frozen? Yes No N/A

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

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

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	Comments/Discrepancy:
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	7.	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Includes Date/Time/ID/Analysis Matrix: W			
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 type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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

WO#: 92618776

PM: NMG

Due Date: 08/25/22

CLIENT: GA-GA Power

Itch#	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-)	AG3S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9F-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)	SP5F-125 mL Sterile Plastic (N/A - lab)	SP2H-250 mL Sterile Plastic (N/A - lab)	BP3H-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)			
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pH Adjustment Log for Preserved Samples

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

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina 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

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #

WO#: 92618776

PM: NMG

Due Date: 08/24/22

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 08/10/

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 5.4 Correction Factor: 0 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 5.4

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	7.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes Date/Time/ID/Analysis Matrix: WG		
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	

Field Data Required? Yes No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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

Proj **WO# : 92618776**
 PM: NMG Due Date: 08/24/22
 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)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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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-HUNT-0083 V01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh M... Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project

WO#: 92618776

PM: NMG

Due Date: 08/24/22

CLIENT: GA-GA Power

Courier: Fed.Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/12/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States, CA, NY, or SC (check map)? 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 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 COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: W			
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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92618776

PM: NMG

Due Date: 08/24/22

CLIENT: GA-GA Power

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

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-)	WGFL-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)	DG94-250 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-)	V5GU-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		2	1																									
9		2	1																									
10		2	1																									
11		2	1																									
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.

Project #

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

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	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)	DG9U-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)	DG9L-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																													
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 (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information Company: GA Power Address: Atlanta, GA Email To: SCS Contacts Phone: _____ Fax: _____ Requested Due Date/TAT: 10 Day		Section B Required Project Information: Report To: SCS Contacts Copy To: Geosynthetic Contacts Purchase Order No: _____ Project Name: Hammond AP-2 Project Number: _____		Section C Invoice Information: Attention: Southern Co Company Name: _____ Address: _____ Paid Quote Reference: _____ Project Manager: Nicole D'Olivo Pace Profile #: 10839	
REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER: _____			Site Location: _____ STATE: GA		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER PRODUCT SOLVENT OIL WIPES MPE OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH								
					DATE	TIME								DATE	TIME						
1	HGWA-5		WG G	G	8/10/2022	9:57	20	7	3	3	1	1									
2	HGWA-6		WG G	G	8/10/2022	09:10	19	7	3	3	1	1									
3	HGWC-16		WG G	G	8/10/2022	16:01	21	7	3	3	1	1									
4	HGWC-17		WG G	G	8/10/2022	14:01	21	7	3	3	1	1									
6	HGWC-18		WG G	G	8/10/2022	11:57	21	7	3	3	1	1									
6	MM-33		WG G	G	8/10/2022	16:10	20	7	3	3	1	1									
7	MM-34D		WG G	G	8/10/2022	14:00	22	7	3	3	1	1									
8	MM-37D		WG G	G	8/10/2022	16:30	21	7	3	3	1	1									
9	DUP-2		WG G	G	8/10/2022	00:00	TK 8/10/2022	21	7	3	3	1	1								
10																					
11																					
12																					

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Nathaniel Klee Brown</i> SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE: 8/10/2022 TIME: 11:25	
REINQUISHED BY / AFFILIATION <i>Nathaniel Klee Brown</i> <i>8/10/2022 11:25</i>		ACCEPTED BY / AFFILIATION <i>[Signature]</i> DATE: 8/10/2022 TIME: 11:25	

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

November 03, 2022

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

RE: Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Dear Joju Abraham:

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

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Issued on 11/3/22 to update the collection time for sample HGWA-3.

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: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Noelia Muskus, Geosyntec Consultants

Ms. Lauren Petty, Southern Company
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwest, Geosyntec
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618829001	HGWA-1	Water	08/02/22 09:44	08/04/22 12:30
92618829002	HGWA-2	Water	08/02/22 12:28	08/04/22 12:30
92618829003	HGWA-3	Water	08/02/22 14:08	08/04/22 12:30
92618829004	HGWA-43D	Water	08/02/22 09:33	08/04/22 12:30
92618829005	HGWA-44D	Water	08/02/22 10:42	08/04/22 12:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618829001	HGWA-1	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618829002	HGWA-2	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618829003	HGWA-3	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618829004	HGWA-43D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618829005	HGWA-44D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Lab ID	Sample ID	Method	Analysts	Analytes Reported
---------------	------------------	---------------	-----------------	--------------------------

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618829001	HGWA-1					
	Performed by	CUSTOME			08/05/22 12:45	
		R				
	pH	7.03	Std. Units		08/05/22 12:45	
EPA 6010D	Iron	0.21	mg/L	0.040	08/11/22 15:26	
EPA 6010D	Manganese	0.48	mg/L	0.040	08/11/22 15:26	
EPA 6010D	Potassium	0.28	mg/L	0.20	08/11/22 15:26	
EPA 6010D	Sodium	28.5	mg/L	1.0	08/11/22 15:26	
EPA 6010D	Calcium	117	mg/L	1.0	08/11/22 15:26	
EPA 6010D	Magnesium	4.4	mg/L	0.050	08/11/22 15:26	
EPA 6020B	Barium	0.039	mg/L	0.0050	08/10/22 20:09	
EPA 6020B	Boron	0.012J	mg/L	0.040	08/10/22 20:09	
EPA 6020B	Cobalt	0.00054J	mg/L	0.0050	08/10/22 20:09	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	10.0	08/09/22 10:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	266	mg/L	5.0	08/10/22 13:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	266	mg/L	5.0	08/10/22 13:04	
SM 4500-S2D-2011	Sulfide	0.062J	mg/L	0.10	08/06/22 03:40	
EPA 300.0 Rev 2.1 1993	Chloride	14.1	mg/L	1.0	08/12/22 17:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.090J	mg/L	0.10	08/12/22 17:33	
EPA 300.0 Rev 2.1 1993	Sulfate	58.1	mg/L	1.0	08/12/22 17:33	
92618829002	HGWA-2					
	Performed by	CUSTOME			08/05/22 12:45	
		R				
	pH	4.57	Std. Units		08/05/22 12:45	
EPA 6010D	Iron	0.72	mg/L	0.040	08/11/22 15:31	
EPA 6010D	Manganese	0.80	mg/L	0.040	08/11/22 15:31	
EPA 6010D	Potassium	1.0	mg/L	0.20	08/11/22 15:31	
EPA 6010D	Sodium	11.2	mg/L	1.0	08/11/22 15:31	
EPA 6010D	Calcium	31.2	mg/L	1.0	08/11/22 15:31	
EPA 6010D	Magnesium	4.0	mg/L	0.050	08/11/22 15:31	
EPA 6020B	Barium	0.11	mg/L	0.0050	08/10/22 20:15	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	08/10/22 20:15	
EPA 6020B	Boron	0.047	mg/L	0.040	08/10/22 20:15	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	08/10/22 20:15	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	08/10/22 20:15	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	08/10/22 20:15	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	08/10/22 20:15	
SM 2540C-2015	Total Dissolved Solids	196	mg/L	10.0	08/09/22 10:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.8	mg/L	5.0	08/10/22 11:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.8	mg/L	5.0	08/10/22 11:59	
EPA 300.0 Rev 2.1 1993	Chloride	7.8	mg/L	1.0	08/12/22 17:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	08/12/22 17:49	
EPA 300.0 Rev 2.1 1993	Sulfate	86.9	mg/L	1.0	08/12/22 17:49	
92618829003	HGWA-3					
	Performed by	CUSTOME			08/05/22 12:45	
		R				
	pH	7.02	Std. Units		08/05/22 12:45	
EPA 6010D	Iron	1.0	mg/L	0.040	08/11/22 15:35	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT
 Pace Project No.: 92618829

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92618829003	HGWA-3					
EPA 6010D	Manganese	0.24	mg/L	0.040	08/11/22 15:35	
EPA 6010D	Potassium	0.37	mg/L	0.20	08/11/22 15:35	
EPA 6010D	Sodium	5.7	mg/L	1.0	08/11/22 15:35	
EPA 6010D	Calcium	84.6	mg/L	1.0	08/11/22 15:35	
EPA 6010D	Magnesium	5.2	mg/L	0.050	08/11/22 15:35	
EPA 6020B	Barium	0.16	mg/L	0.0050	08/10/22 20:21	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	08/10/22 20:21	
SM 2540C-2015	Total Dissolved Solids	287	mg/L	10.0	08/09/22 10:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	179	mg/L	5.0	08/10/22 12:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	179	mg/L	5.0	08/10/22 12:16	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	08/12/22 18:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	08/12/22 18:35	
EPA 300.0 Rev 2.1 1993	Sulfate	43.5	mg/L	1.0	08/12/22 18:35	
92618829004	HGWA-43D					
	Performed by	CUSTOMER			08/05/22 12:45	
	pH	7.15	Std. Units		08/05/22 12:45	
EPA 6010D	Iron	0.31	mg/L	0.040	08/11/22 15:40	
EPA 6010D	Manganese	0.019J	mg/L	0.040	08/11/22 15:40	
EPA 6010D	Potassium	0.80	mg/L	0.20	08/11/22 15:40	
EPA 6010D	Sodium	24.8	mg/L	1.0	08/11/22 15:40	
EPA 6010D	Calcium	54.1	mg/L	1.0	08/11/22 15:40	
EPA 6010D	Magnesium	17.2	mg/L	0.050	08/11/22 15:40	
EPA 6020B	Barium	0.35	mg/L	0.0050	08/10/22 20:27	
EPA 6020B	Boron	0.043	mg/L	0.040	08/10/22 20:27	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/10/22 20:27	
EPA 6020B	Molybdenum	0.0042J	mg/L	0.010	08/10/22 20:27	
SM 2540C-2015	Total Dissolved Solids	278	mg/L	10.0	08/09/22 10:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	203	mg/L	5.0	08/10/22 13:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	203	mg/L	5.0	08/10/22 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	08/12/22 18:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/12/22 18:50	
EPA 300.0 Rev 2.1 1993	Sulfate	37.0	mg/L	1.0	08/12/22 18:50	
92618829005	HGWA-44D					
	Performed by	CUSTOMER			08/05/22 12:45	
	pH	7.90	Std. Units		08/05/22 12:45	
EPA 6010D	Iron	0.24	mg/L	0.040	08/11/22 15:45	
EPA 6010D	Manganese	0.013J	mg/L	0.040	08/11/22 15:45	
EPA 6010D	Potassium	3.9	mg/L	0.20	08/11/22 15:45	
EPA 6010D	Sodium	94.6	mg/L	1.0	08/11/22 15:45	
EPA 6010D	Calcium	20.9	mg/L	1.0	08/11/22 15:45	
EPA 6010D	Magnesium	12.2	mg/L	0.050	08/11/22 15:45	
EPA 6020B	Barium	0.37	mg/L	0.0050	08/10/22 20:33	
EPA 6020B	Boron	0.31	mg/L	0.040	08/10/22 20:33	
EPA 6020B	Lithium	0.041	mg/L	0.030	08/10/22 20:33	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	08/10/22 20:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618829005	HGWA-44D					
SM 2540C-2015	Total Dissolved Solids	311	mg/L	10.0	08/09/22 10:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	263	mg/L	5.0	08/10/22 13:21	
SM 2320B-2011	Alkalinity, Total as CaCO3	263	mg/L	5.0	08/10/22 13:21	M1
SM 4500-S2D-2011	Sulfide	0.058J	mg/L	0.10	08/06/22 03:44	
EPA 300.0 Rev 2.1 1993	Chloride	19.8	mg/L	1.0	08/17/22 03:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.80	mg/L	0.10	08/17/22 03:36	
EPA 300.0 Rev 2.1 1993	Sulfate	13.2	mg/L	1.0	08/17/22 03:36	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Sample: HGWA-1		Lab ID: 92618829001		Collected: 08/02/22 09:44		Received: 08/04/22 12:30		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		08/05/22 12:45		
pH	7.03	Std. Units			1		08/05/22 12:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.21	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:26	7439-89-6	
Manganese	0.48	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:26	7439-96-5	
Potassium	0.28	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:26	7440-09-7	
Sodium	28.5	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:26	7440-23-5	
Calcium	117	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:26	7440-70-2	
Magnesium	4.4	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:26	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 20:09	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 20:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 20:09	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 20:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 20:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 20:09	7440-47-3	
Cobalt	0.00054J	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 20:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 20:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 20:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 20:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/10/22 15:15	08/11/22 11:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	400	mg/L	10.0	10.0	1		08/09/22 10:23		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	266	mg/L	5.0	5.0	1		08/10/22 13:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/10/22 13:04		
Alkalinity, Total as CaCO3	266	mg/L	5.0	5.0	1		08/10/22 13:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Sample: HGWA-1		Lab ID: 92618829001		Collected: 08/02/22 09:44	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	0.062J	mg/L	0.10	0.050	1		08/06/22 03:40	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	14.1	mg/L	1.0	0.60	1		08/12/22 17:33	16887-00-6	
Fluoride	0.090J	mg/L	0.10	0.050	1		08/12/22 17:33	16984-48-8	
Sulfate	58.1	mg/L	1.0	0.50	1		08/12/22 17:33	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Sample: HGWA-2		Lab ID: 92618829002		Collected: 08/02/22 12:28		Received: 08/04/22 12:30		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		08/05/22 12:45		
pH	4.57	Std. Units			1		08/05/22 12:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.72	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:31	7439-89-6	
Manganese	0.80	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:31	7439-96-5	
Potassium	1.0	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:31	7440-09-7	
Sodium	11.2	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:31	7440-23-5	
Calcium	31.2	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:31	7440-70-2	
Magnesium	4.0	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:31	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 20:15	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 20:15	7440-39-3	
Beryllium	0.00019J	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 20:15	7440-41-7	
Boron	0.047	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 20:15	7440-42-8	
Cadmium	0.00023J	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 20:15	7440-47-3	
Cobalt	0.024	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 20:15	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 20:15	7439-98-7	
Selenium	0.0014J	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 20:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/10/22 15:15	08/11/22 11:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	196	mg/L	10.0	10.0	1		08/09/22 10:23		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	12.8	mg/L	5.0	5.0	1		08/10/22 11:59		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/10/22 11:59		
Alkalinity, Total as CaCO ₃	12.8	mg/L	5.0	5.0	1		08/10/22 11:59		

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Sample: HGWA-2		Lab ID: 92618829002		Collected: 08/02/22 12:28	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:41	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	7.8	mg/L	1.0	0.60	1		08/12/22 17:49	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		08/12/22 17:49	16984-48-8	
Sulfate	86.9	mg/L	1.0	0.50	1		08/12/22 17:49	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Sample: HGWA-3		Lab ID: 92618829003		Collected: 08/02/22 14:08		Received: 08/04/22 12:30		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		08/05/22 12:45		
pH	7.02	Std. Units			1		08/05/22 12:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	1.0	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:35	7439-89-6	
Manganese	0.24	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:35	7439-96-5	
Potassium	0.37	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:35	7440-09-7	
Sodium	5.7	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:35	7440-23-5	
Calcium	84.6	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:35	7440-70-2	
Magnesium	5.2	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:35	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 20:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 20:21	7440-38-2	
Barium	0.16	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 20:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 20:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 20:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 20:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 20:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 20:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 20:21	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 20:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 20:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 20:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 20:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/10/22 15:15	08/11/22 11:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	287	mg/L	10.0	10.0	1		08/09/22 10:23		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	179	mg/L	5.0	5.0	1		08/10/22 12:16		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/10/22 12:16		
Alkalinity, Total as CaCO ₃	179	mg/L	5.0	5.0	1		08/10/22 12:16		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Sample: HGWA-3		Lab ID: 92618829003		Collected: 08/02/22 14:08	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:41	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	5.9	mg/L	1.0	0.60	1		08/12/22 18:35	16887-00-6	
Fluoride	0.067J	mg/L	0.10	0.050	1		08/12/22 18:35	16984-48-8	
Sulfate	43.5	mg/L	1.0	0.50	1		08/12/22 18:35	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Sample: HGWA-43D		Lab ID: 92618829004		Collected: 08/02/22 09:33	Received: 08/04/22 12:30	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		08/05/22 12:45		
pH	7.15	Std. Units			1		08/05/22 12:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.31	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:40	7439-89-6	
Manganese	0.019J	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:40	7439-96-5	
Potassium	0.80	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:40	7440-09-7	
Sodium	24.8	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:40	7440-23-5	
Calcium	54.1	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:40	7440-70-2	
Magnesium	17.2	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:40	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 20:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 20:27	7440-38-2	
Barium	0.35	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 20:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 20:27	7440-41-7	
Boron	0.043	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 20:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 20:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 20:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 20:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 20:27	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 20:27	7439-93-2	
Molybdenum	0.0042J	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 20:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 20:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 20:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/10/22 15:15	08/11/22 11:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	278	mg/L	10.0	10.0	1		08/09/22 10:23		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	203	mg/L	5.0	5.0	1		08/10/22 13:13		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/10/22 13:13		
Alkalinity, Total as CaCO ₃	203	mg/L	5.0	5.0	1		08/10/22 13:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Sample: HGWA-43D		Lab ID: 92618829004		Collected: 08/02/22 09:33	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:44	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	4.3	mg/L	1.0	0.60	1		08/12/22 18:50	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		08/12/22 18:50	16984-48-8	
Sulfate	37.0	mg/L	1.0	0.50	1		08/12/22 18:50	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

Sample: HGWA-44D	Lab ID: 92618829005	Collected: 08/02/22 10:42	Received: 08/04/22 12:30	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		08/05/22 12:45		
pH	7.90	Std. Units			1		08/05/22 12:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	0.24	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:45	7439-89-6	
Manganese	0.013J	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:45	7439-96-5	
Potassium	3.9	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:45	7440-09-7	
Sodium	94.6	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:45	7440-23-5	
Calcium	20.9	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:45	7440-70-2	
Magnesium	12.2	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:45	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 20:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 20:33	7440-38-2	
Barium	0.37	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 20:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 20:33	7440-41-7	
Boron	0.31	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 20:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 20:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 20:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 20:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 20:33	7439-92-1	
Lithium	0.041	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 20:33	7439-93-2	
Molybdenum	0.0020J	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 20:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 20:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 20:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/10/22 15:15	08/11/22 11:51	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	311	mg/L	10.0	10.0	1		08/09/22 10:27		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	263	mg/L	5.0	5.0	1		08/10/22 13:21		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		08/10/22 13:21		
Alkalinity, Total as CaCO ₃	263	mg/L	5.0	5.0	1		08/10/22 13:21		M1

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ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Sample: HGWA-44D		Lab ID: 92618829005		Collected: 08/02/22 10:42	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	0.058J	mg/L	0.10	0.050	1		08/06/22 03:44	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	19.8	mg/L	1.0	0.60	1		08/17/22 03:36	16887-00-6	
Fluoride	0.80	mg/L	0.10	0.050	1		08/17/22 03:36	16984-48-8	
Sulfate	13.2	mg/L	1.0	0.50	1		08/17/22 03:36	14808-79-8	

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 716032 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

METHOD BLANK: 3732776 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/11/22 13:20	
Iron	mg/L	ND	0.040	0.025	08/11/22 13:20	
Magnesium	mg/L	ND	0.050	0.012	08/11/22 13:20	
Manganese	mg/L	ND	0.040	0.0043	08/11/22 13:20	
Potassium	mg/L	ND	0.20	0.15	08/11/22 13:20	
Sodium	mg/L	ND	1.0	0.58	08/11/22 13:20	

LABORATORY CONTROL SAMPLE: 3732777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Manganese	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732778 3732779

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820002 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	153	1	1	150	-362	-50	75-125	2	20	M1
Iron	mg/L	0.053	1	1	1.1	107	108	75-125	1	20	
Magnesium	mg/L	21.3	1	1	21.8	57	96	75-125	2	20	M1
Manganese	mg/L	0.31	1	1	1.4	105	106	75-125	1	20	
Potassium	mg/L	7.7	1	1	8.6	92	109	75-125	2	20	
Sodium	mg/L	9.4	1	1	10.2	79	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 715918 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

METHOD BLANK: 3732042 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/10/22 17:46	
Arsenic	mg/L	ND	0.0050	0.0022	08/10/22 17:46	
Barium	mg/L	ND	0.0050	0.00067	08/10/22 17:46	
Beryllium	mg/L	ND	0.00050	0.000054	08/10/22 17:46	
Boron	mg/L	ND	0.040	0.0086	08/10/22 17:46	
Cadmium	mg/L	ND	0.00050	0.00011	08/10/22 17:46	
Chromium	mg/L	ND	0.0050	0.0011	08/10/22 17:46	
Cobalt	mg/L	ND	0.0050	0.00039	08/10/22 17:46	
Lead	mg/L	ND	0.0010	0.00089	08/10/22 17:46	
Lithium	mg/L	ND	0.030	0.00073	08/10/22 17:46	
Molybdenum	mg/L	ND	0.010	0.00074	08/10/22 17:46	
Selenium	mg/L	ND	0.0050	0.0014	08/10/22 17:46	
Thallium	mg/L	ND	0.0010	0.00018	08/10/22 17:46	

LABORATORY CONTROL SAMPLE: 3732043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	120	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732044 3732045

Parameter	Units	92618820002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.12	0.13	123	128	75-125	4	20	M1
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Parameter	Units	3732044		3732045		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.060	0.1	0.1	0.18	0.19	120	126	75-125	3	20	M1	
Beryllium	mg/L	0.000056J	0.1	0.1	0.089	0.087	89	87	75-125	2	20		
Boron	mg/L	1.5	1	1	2.3	2.3	80	82	75-125	1	20		
Cadmium	mg/L	0.00017J	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20		
Cobalt	mg/L	0.0024J	0.1	0.1	0.097	0.098	95	95	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.097	96	97	75-125	1	20		
Lithium	mg/L	0.0026J	0.1	0.1	0.090	0.090	88	87	75-125	0	20		
Molybdenum	mg/L	0.29	0.1	0.1	0.41	0.43	116	138	75-125	5	20	M1	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	99	98	75-125	0	20		
Thallium	mg/L	0.00018J	0.1	0.1	0.097	0.097	97	97	75-125	0	20		

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

QC Batch:	716247	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

METHOD BLANK: 3733695 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/11/22 10:22	

LABORATORY CONTROL SAMPLE: 3733696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733697 3733698

Parameter	Units	3733697		3733698		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0021	0.0020	82	82	75-125	1	20	

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 715874 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

METHOD BLANK: 3731839 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/09/22 10:22	

LABORATORY CONTROL SAMPLE: 3731840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	80-120	

SAMPLE DUPLICATE: 3731841

Parameter	Units	92618822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	47.0	2	25	

SAMPLE DUPLICATE: 3731990

Parameter	Units	92618829005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	341	9	25	

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 716212 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

METHOD BLANK: 3733541 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004, 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/10/22 10:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/10/22 10:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/10/22 10:57	

LABORATORY CONTROL SAMPLE: 3733542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.1	96	80-120	

LABORATORY CONTROL SAMPLE: 3733543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.5	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733544 3733545

Parameter	Units	92618829005 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	263	50	50	299	296	73	67	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 715461 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: 92618829001, 92618829002, 92618829003

METHOD BLANK: 3730179 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/06/22 03:29	

LABORATORY CONTROL SAMPLE: 3730180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.48	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730181 3730182

Parameter	Units	92618725005		3730181		3730182		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	ND	0.5	0.5	0.44	0.48	86	94	80-120	8	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730183 3730184

Parameter	Units	92618728001		3730183		3730184		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	ND	0.5	0.5	0.53	0.53	104	105	80-120	1	10	

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 715462 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: 92618829004, 92618829005

METHOD BLANK: 3730185 Matrix: Water
Associated Lab Samples: 92618829004, 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/06/22 03:43	

LABORATORY CONTROL SAMPLE: 3730186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730187 3730188

Parameter	Units	92618494001		3730187		3730188		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfide	mg/L	ND	ND	0.5	0.5	0.52	0.55	101	108	80-120	6	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730189 3730190

Parameter	Units	92618607002		3730189		3730190		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfide	mg/L	ND	ND	0.5	0.5	0.49	0.49	92	92	80-120	0	10

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

QC Batch: 716707 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: 92618829001, 92618829002, 92618829003, 92618829004

METHOD BLANK: 3736371 Matrix: Water
 Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/12/22 10:25	
Fluoride	mg/L	ND	0.10	0.050	08/12/22 10:25	
Sulfate	mg/L	ND	1.0	0.50	08/12/22 10:25	

LABORATORY CONTROL SAMPLE: 3736372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.1	106	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736373 3736374

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	37.9	50	50	50	94.8	94.7	114	114	90-110	0	10	M1
Fluoride	mg/L	0.11	2.5	2.5	2.5	2.8	2.8	107	109	90-110	1	10	
Sulfate	mg/L	105	50	50	50	152	150	94	90	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736375 3736376

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820011 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	63.5	50	50	50	101	100	74	74	90-110	0	10	M1
Fluoride	mg/L	0.069J	2.5	2.5	2.5	2.8	2.7	108	106	90-110	2	10	
Sulfate	mg/L	140	50	50	50	186	187	92	93	90-110	0	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 717487 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: 92618829005

METHOD BLANK: 3740162 Matrix: Water
Associated Lab Samples: 92618829005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/16/22 23:47	
Fluoride	mg/L	ND	0.10	0.050	08/16/22 23:47	
Sulfate	mg/L	ND	1.0	0.50	08/16/22 23:47	

LABORATORY CONTROL SAMPLE: 3740163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740164 3740165

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92619836001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	10.2	50	50	65.3	63.6	110	107	90-110	3	10		
Fluoride	mg/L	0.80	2.5	2.5	3.4	3.2	105	98	90-110	5	10		
Sulfate	mg/L	11.0	50	50	67.7	64.3	113	107	90-110	5	10 M1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740166 3740167

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92619486001 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	61.1	50	50	108	109	93	95	90-110	1	10		
Fluoride	mg/L	0.35	2.5	2.5	2.8	2.9	99	100	90-110	1	10		
Sulfate	mg/L	367	50	50	352	349	-32	-37	90-110	1	10 M1		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618829001	HGWA-1				
92618829002	HGWA-2				
92618829003	HGWA-3				
92618829004	HGWA-43D				
92618829005	HGWA-44D				
92618829001	HGWA-1	EPA 3010A	716032	EPA 6010D	716586
92618829002	HGWA-2	EPA 3010A	716032	EPA 6010D	716586
92618829003	HGWA-3	EPA 3010A	716032	EPA 6010D	716586
92618829004	HGWA-43D	EPA 3010A	716032	EPA 6010D	716586
92618829005	HGWA-44D	EPA 3010A	716032	EPA 6010D	716586
92618829001	HGWA-1	EPA 3005A	715918	EPA 6020B	716063
92618829002	HGWA-2	EPA 3005A	715918	EPA 6020B	716063
92618829003	HGWA-3	EPA 3005A	715918	EPA 6020B	716063
92618829004	HGWA-43D	EPA 3005A	715918	EPA 6020B	716063
92618829005	HGWA-44D	EPA 3005A	715918	EPA 6020B	716063
92618829001	HGWA-1	EPA 7470A	716247	EPA 7470A	716490
92618829002	HGWA-2	EPA 7470A	716247	EPA 7470A	716490
92618829003	HGWA-3	EPA 7470A	716247	EPA 7470A	716490
92618829004	HGWA-43D	EPA 7470A	716247	EPA 7470A	716490
92618829005	HGWA-44D	EPA 7470A	716247	EPA 7470A	716490
92618829001	HGWA-1	SM 2540C-2015	715874		
92618829002	HGWA-2	SM 2540C-2015	715874		
92618829003	HGWA-3	SM 2540C-2015	715874		
92618829004	HGWA-43D	SM 2540C-2015	715874		
92618829005	HGWA-44D	SM 2540C-2015	715874		
92618829001	HGWA-1	SM 2320B-2011	716212		
92618829002	HGWA-2	SM 2320B-2011	716212		
92618829003	HGWA-3	SM 2320B-2011	716212		
92618829004	HGWA-43D	SM 2320B-2011	716212		
92618829005	HGWA-44D	SM 2320B-2011	716212		
92618829001	HGWA-1	SM 4500-S2D-2011	715461		
92618829002	HGWA-2	SM 4500-S2D-2011	715461		
92618829003	HGWA-3	SM 4500-S2D-2011	715461		
92618829004	HGWA-43D	SM 4500-S2D-2011	715462		
92618829005	HGWA-44D	SM 4500-S2D-2011	715462		
92618829001	HGWA-1	EPA 300.0 Rev 2.1 1993	716707		
92618829002	HGWA-2	EPA 300.0 Rev 2.1 1993	716707		
92618829003	HGWA-3	EPA 300.0 Rev 2.1 1993	716707		
92618829004	HGWA-43D	EPA 300.0 Rev 2.1 1993	716707		
92618829005	HGWA-44D	EPA 300.0 Rev 2.1 1993	717487		

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:

GA Power

Project #

WO#: 92618829



Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/4/23 CW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

TR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 3.3

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

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

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-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92618829

PM: NMG

Due Date: 08/18/22

CLIENT: GA-GA Power

*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

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-)	BP3M-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGRU-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 Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9S-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		2	1																									
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

September 08, 2022

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

RE: Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

Dear Joju Abraham:

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

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

- Pace Analytical Services - Greensburg

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: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Michael Smilley, Georgia Power
Anthony Szwast, Geosyntec
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618785001	HGWA-1	Water	08/02/22 09:44	08/04/22 12:30
92618785002	HGWA-2	Water	08/02/22 12:28	08/04/22 12:30
92618785003	HGWA-3	Water	08/02/22 14:08	08/04/22 12:30
92618785004	HGWA-43D	Water	08/02/22 09:33	08/04/22 12:30
92618785005	HGWA-44D	Water	08/02/22 10:42	08/04/22 12:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618785001	HGWA-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618785002	HGWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618785003	HGWA-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618785004	HGWA-43D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618785005	HGWA-44D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618785001	HGWA-1					
EPA 9315	Radium-226	0.106 ± 0.204 (0.469) C:79% T:NA	pCi/L		09/06/22 08:53	
EPA 9320	Radium-228	0.0966 ± 0.281 (0.632) C:81% T:87%	pCi/L		08/29/22 11:34	
Total Radium Calculation	Total Radium	0.203 ± 0.485 (1.10)	pCi/L		09/06/22 15:52	
92618785002	HGWA-2					
EPA 9315	Radium-226	0.119 ± 0.196 (0.434) C:83% T:NA	pCi/L		09/06/22 08:55	
EPA 9320	Radium-228	0.742 ± 0.357 (0.601) C:80% T:88%	pCi/L		08/29/22 11:34	
Total Radium Calculation	Total Radium	0.861 ± 0.553 (1.04)	pCi/L		09/06/22 15:52	
92618785003	HGWA-3					
EPA 9315	Radium-226	-0.0471 ± 0.162 (0.494) C:87% T:NA	pCi/L		09/06/22 08:55	
EPA 9320	Radium-228	0.400 ± 0.346 (0.699) C:78% T:87%	pCi/L		08/29/22 11:34	
Total Radium Calculation	Total Radium	0.400 ± 0.508 (1.19)	pCi/L		09/06/22 15:52	
92618785004	HGWA-43D					
EPA 9315	Radium-226	0.297 ± 0.256 (0.460) C:86% T:NA	pCi/L		09/06/22 08:55	
EPA 9320	Radium-228	0.365 ± 0.318 (0.636) C:82% T:87%	pCi/L		08/29/22 12:28	
Total Radium Calculation	Total Radium	0.662 ± 0.574 (1.10)	pCi/L		09/06/22 15:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92618785005	HGWA-44D					
EPA 9315	Radium-226	0.0642 ± 0.408 (1.04) C:45% T:NA	pCi/L		09/06/22 08:56	
EPA 9320	Radium-228	0.888 ± 0.367 (0.564) C:80% T:90%	pCi/L		08/29/22 11:34	
Total Radium Calculation	Total Radium	0.952 ± 0.775 (1.60)	pCi/L		09/06/22 15:52	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-1 **Lab ID: 92618785001** Collected: 08/02/22 09:44 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.106 ± 0.204 (0.469) C:79% T:NA	pCi/L	09/06/22 08:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0966 ± 0.281 (0.632) C:81% T:87%	pCi/L	08/29/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.203 ± 0.485 (1.10)	pCi/L	09/06/22 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-2 **Lab ID: 92618785002** Collected: 08/02/22 12:28 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.119 ± 0.196 (0.434) C:83% T:NA	pCi/L	09/06/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.742 ± 0.357 (0.601) C:80% T:88%	pCi/L	08/29/22 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.861 ± 0.553 (1.04)	pCi/L	09/06/22 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-3 **Lab ID: 92618785003** Collected: 08/02/22 14:08 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0471 ± 0.162 (0.494) C:87% T:NA	pCi/L	09/06/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.400 ± 0.346 (0.699) C:78% T:87%	pCi/L	08/29/22 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.400 ± 0.508 (1.19)	pCi/L	09/06/22 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-43D **Lab ID: 92618785004** Collected: 08/02/22 09:33 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.297 ± 0.256 (0.460) C:86% T:NA	pCi/L	09/06/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.365 ± 0.318 (0.636) C:82% T:87%	pCi/L	08/29/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.662 ± 0.574 (1.10)	pCi/L	09/06/22 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HGWA-44D Lab ID: 92618785005 Collected: 08/02/22 10:42 Received: 08/04/22 12:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0642 ± 0.408 (1.04) C:45% T:NA	pCi/L	09/06/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.888 ± 0.367 (0.564) C:80% T:90%	pCi/L	08/29/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.952 ± 0.775 (1.60)	pCi/L	09/06/22 15:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

QC Batch:	525947	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92618785001, 92618785002, 92618785003, 92618785004, 92618785005

METHOD BLANK: 2551553 Matrix: Water

Associated Lab Samples: 92618785001, 92618785002, 92618785003, 92618785004, 92618785005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.521 ± 0.305 (0.543) C:83% T:91%	pCi/L	08/29/22 12:28	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618785001	HGWA-1	EPA 9315	525510		
92618785002	HGWA-2	EPA 9315	525510		
92618785003	HGWA-3	EPA 9315	525510		
92618785004	HGWA-43D	EPA 9315	525510		
92618785005	HGWA-44D	EPA 9315	525510		
92618785001	HGWA-1	EPA 9320	525947		
92618785002	HGWA-2	EPA 9320	525947		
92618785003	HGWA-3	EPA 9320	525947		
92618785004	HGWA-43D	EPA 9320	525947		
92618785005	HGWA-44D	EPA 9320	525947		
92618785001	HGWA-1	Total Radium Calculation	530889		
92618785002	HGWA-2	Total Radium Calculation	530889		
92618785003	HGWA-3	Total Radium Calculation	530889		
92618785004	HGWA-43D	Total Radium Calculation	530889		
92618785005	HGWA-44D	Total Radium Calculation	530889		

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

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO#: 92618785



Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/4/23 [initials]

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

TR Gun ID:

230

Type of Ice: Wet Blue None

Cooler Temp:

3.3

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantined 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 COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W	
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 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-HUN1-0083 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# : 92618785

PM: NMG

Due Date: 08/25/22

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-)	BP3H-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)	VG9B-40 mL VOA Unpreserved (N/A)	DG9S-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	2	1																											
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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

VALIDATION REPORTS

January/February 2022

Memorandum

Date: June 13, 2022
To: Whitney Law
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92587322**

SITE: Plant Hammond AP-2

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-two aqueous samples, one field duplicate, one field blank and one equipment blank, collected 1 and 8-10 February 2022, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
92587322001	HGWA-4
92587322002	HGWA-5
92587322003	HGWA-6
92587322004	HGWA-42D
92587322005	HGWC-15
92587322006	HGWC-16
92587322007	HGWC-17
92587322008	HGWC-18
92587322009	MW-21D
92587322010	MW-22
92587322011	MW-33
92587322012	MW-35
92587322013	MW-37D

Laboratory ID	Client ID
92587322014	MW-51
92587322015	DUP-2
92587322017	HGWA-44D
92587322018	HGWA-2
92587322019	HGWA-3
92587322020	HGWA-1
92587322021	HGWA-43D
92587322022	HGWC-14
92587322023	MW-34D
92587322024	MW-23D
92587322025	EB-2
92587322026	FB-2

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The results flagged as “ND” in the electronic data deliverable (EDD) were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches 678931, 680760, 680899, 678928, 680757 and 680871). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Two sample set specific MS/MSD pairs were reported for calcium by US EPA method 6010D, using samples HGWA-6 and MW-37D. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria.

The recoveries of calcium in the MS/MSD pair using sample HGWA-6 were high and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample HGWA-6 was greater than four times the spike concentration, no qualifications were applied to the data.

The recoveries of calcium in the MS/MSD pair using sample MW-37D were low and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample MW-37D was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for calcium. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Two sample set specific MS/MSD pairs were reported for metals by US EPA method 6020B, using samples HGWA-5 and MW-51. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of boron in the MS/MSD pair using sample HGWA-6 was low and outside of the laboratory specified acceptance criteria. Since the boron concentration in sample HGWA-6 was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for metals by US EPA method 6020B. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, EB-2. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Barium and boron were detected in the equipment blank at estimated concentrations greater than the MDLs and less than the reporting limits (RLs). Since the estimated concentrations of barium and boron in the equipment blank were U qualified as not detected at the RLs due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank was collected with the sample set, FB-2. Metals were not detected in the field blank above the MDLs, with the following exception.

Barium and boron were detected in the field blank at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated concentrations of barium and boron in the associated samples were U qualified as not detected at the RLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
EB-2	Barium	0.0026	J	0.0050	U	3
EB-2	Boron	0.020	J	0.040	U	3
HGWA-4	Boron	0.017	J	0.040	U	3
HGWA-6	Boron	0.019	J	0.040	U	3
HGWA-3	Boron	0.011	J	0.040	U	3
HGWA-1	Boron	0.016	J	0.040	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-2. Acceptable precision (RPD $\leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-15, with the following exception.

The RPD for cobalt was greater than 30% in the field duplicate pair. Therefore, the cobalt concentrations in samples DUP-2 and HGWC-15 were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
HGWC-15	Cobalt	0.0081	NA	46	0.0081	J	7
DUP-2	Cobalt	0.013	NA		0.013	J	7

mg/L-milligrams per liter

NA-not applicable

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 678094, 678396 and 680662). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample HGWA-4. The recovery and RPD results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, EB-2. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, FB-2. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-2. Acceptable precision (RPD $\leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-15.

2.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for TDS (batches 677215, 677216, 678369, 678705 and 678707) and four method blanks were reported for the anions (batches 676561, 678309, 678880 and 679328). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported for anions, using sample HGWC-17. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The recoveries of sulfate in the MS/MSD pair using sample HGWC-17 were low and outside of the laboratory specified acceptance criteria. Since the sulfate concentration in sample HGWC-17 was greater than four times the spike concentration, no qualifications were applied to the data.

Seven batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported for TDS and four LCSs were reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using samples HGWC-17. The RPD results were within the laboratory specified acceptance criteria.

Eight batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EB-2. The wet chemistry parameters were not detected in the equipment blank above the MDL.

3.8 Field Blank

One field blank was collected with the sample set, FB-2. The wet chemistry parameters were not detected in the field blank above the MDL.

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-2. Acceptable precision (RPD $\leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-15.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the RL for TDS. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

Memorandum

Date: June 14, 2022
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92587304**

SITE: Plant Hammond AP-2

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-two aqueous samples, one field duplicate, one field blank and one equipment blank, collected 1-10 February 2022, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92587304001	HGWA-4
92587304002	HGWA-5
92587304003	HGWA-6
92587304004	HGWA-42D
92587304005	HGWC-15
92587304006	HGWC-16
92587304007	HGWC-17
92587304008	HGWC-18
92587304009	MW-21D
92587304010	MW-22

Laboratory ID	Client ID
92587304011	MW-33
92587304012	MW-35
92587304013	MW-37D
92587304014	MW-51
92587304015	DUP-2
92587304022	HGWC-14
92587304023	MW-34D
92587304024	MW-23D
92587304025	EB-2
92587304026	FB-2

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not listed on the chain of custody (COC) for the field duplicate, DUP-2. The field duplicate was logged in with the collection time of 00:00.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-228 data (batches 486656, 486660 and 488988). Two method blanks were reported for the radium-226 data (batches 486616 and 486611). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCS duplicate (LCSD) pairs were reported for radium-226. Three LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two batch laboratory duplicates were reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank was collected with the sample set, EB-2. Radium-226 and radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank was collected with the sample set, FB-2. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-02. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicate and the original sample, HGWC-16.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

August 2022

Memorandum

Date: 8 November 2022
To: Christine Hug
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Project No.: 92618829 Revision 1**

SITE: CCR Plant Hammond AP-2 Pooled Upgradient

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples collected 2 August 2022, as part of the Plant Hammond sampling event.

The samples were analyzed at Pace Analytical Services – Peachtree Corners, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Select Metals by US EPA Method 3010A/6010D
- Mercury by US EPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C-2015

The samples were analyzed at Pace Analytical Services - Asheville, Asheville, North Carolina, for the following analytical tests:

- Anions (chloride, fluoride and sulfate) by US EPA Method 300.0 Rev 2.1 1993
- Alkalinity as CaCO₃ (total, bicarbonate and carbonate) by SM 2320B-2011
- Sulfide by SM 4500-S2D-2011

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- United States Environmental Protection Agency (US EPA) Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 540-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory IDs	Client IDs
92618829001	HGWA-1
92618829002	HGWA-2
92618829003	HGWA-3

Laboratory IDs	Client IDs
92618829004	HGWA-43D
92618829005	HGWA-44D

The chain of custody (COC) indicates the samples were received between 0-6 °C. No preservation issues were noted by the laboratory.

Revised report was issued by the laboratory to update the collection time for sample HGWA-3.

The laboratory reported results for pH, however, those results were not validated in this report.

Radium 226/228 was requested on the COC. However, this data was reported separately.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B and US EPA Method 3010A/6010D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this dataset is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for metals by US EPA method 6020B (batch 715918), and one method blank for metals by US EPA Method 6010D (batch 716032). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Batch MS/MSDs were reported for both methods. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported with each batch. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Equipment blanks were not submitted with the samples.

1.7 Field Blank

Field blanks were not submitted with the samples.

1.8 Field Duplicate

Field duplicates were not submitted with the samples.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this dataset is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 716247). Mercury was not detected in the method blank at or above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Equipment blanks were not submitted with the samples.

2.7 Field Blank

Field blanks were not submitted with the samples.

2.8 Field Duplicate

Field duplicates were not submitted with the samples.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for chloride, fluoride and sulfate by US EPA method 300.0 Rev 2.1 1993, TDS by SM 2540C-2015, Alkalinity as CaCO₃ (total, bicarbonate and carbonate) by SM 2320B-2011 and Sulfide by SM 4500-S2D-2011.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this dataset is 100%.

3.2 Holding Times

The holding times for water samples are listed below. The holding times were met for the sample analyses.

Analysis	Holding Time
Anions (fluoride, chloride and sulfate)	28 days from collection to analysis
TDS	7 days from collection to analysis
Alkalinity	14 days from collection to analysis
Sulfide	28 days from collection to analysis

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 715874). Two method blanks were reported for chloride, fluoride and sulfate (batches 716707 and 717487). One method blank was reported for alkalinity (batch 716212). Two method blanks were reported for sulfide (batches 715461 and 715462). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported for alkalinity using sample HGWA-44D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of total alkalinity in the MS/MSD pair using sample HGWA-44D were low and outside of laboratory specified acceptance criteria. Since the concentration of total alkalinity in sample HGWA-44D was greater than four times the spike amount, no qualifications were applied to data.

Batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for each analysis and batch. The recovery results were within the laboratory specified acceptance criteria.

2.1 Laboratory Duplicate

One laboratory duplicate was reported for TDS in batch 715874 using sample HGWA-44D. The RPD result was within the laboratory specified acceptance criteria.

2.2 Equipment Blank

Equipment blanks were not submitted with the samples.

2.3 Field Blank

Field blanks were not submitted with the samples.

2.4 Field Duplicate

Field duplicates were not submitted with the samples.

2.5 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.6 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Memorandum

Date: November 17, 2022
To: Whitney Law
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92618785**

SITE: Plant Hammond AP-2 Pooled Upgradient

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples collected 2 August 2022, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92618785001	HGWA-1
92618785002	HGWA-2
92618785003	HGWA-3

Laboratory ID	Client ID
92618785004	HGWA-43D
92618785005	HGWA-44D

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The laboratory report was revised to include the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) data. The revised project name for the report was identified as HAMMOND POOLED UPGRADIENT RAD.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ⊗ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as

estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 525947). One method blank was reported for the radium-226 data (batch 525510). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported for radium-226. One LCS/LCSD pair was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank, EB-2, was collected with the sample set and reported in laboratory report 92618776. Radium-226 was not detected in the equipment blank above the MDC. Radium-228 (0.828 pCi/L) was detected in the equipment blank at a concentration greater than the MDC.

Therefore, the radium-228 results in samples HGWA-2 and HGWA-44 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
HGWA-2	Radium-228	0.742	NA	0.742	J+	3
HGWA-44	Radium-228	0.888	NA	0.88	J+	3

pCi/L-picocurie per liter

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.9 Field Blank

One field blank, FB-2, was collected with the sample set and reported in laboratory report 92618776. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

A field duplicate sample was not collected with the sample set.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

Memorandum

Date: 9 November 2022
To: Christine Hug
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validations - Level II Data Deliverable – Pace Analytical Project No.: 92618822 Revision 1**

SITE: CCR Plant Hammond AP-2

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seventeen aqueous samples, one field blank, one equipment blank and one field duplicate, collected 2 & 9-11 August 2022, as part of the Plant Hammond sampling event.

The samples were analyzed at Pace Analytical Services – Peachtree Corners, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Select Metals by US EPA Method 3010A/6010D
- Mercury by US EPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C-2015

The samples were analyzed at Pace Analytical Services - Asheville, Asheville, North Carolina, for the following analytical tests:

- Anions (chloride, fluoride and sulfate) by US EPA Method 300.0 Rev 2.1 1993
- Alkalinity as CaCO₃ (total, bicarbonate and carbonate) by SM 2320B-2011
- Sulfide by SM 4500-S2D-2011

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- United States Environmental Protection Agency (US EPA) Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 540-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory IDs	Client IDs
92618822001	HGWA-4
92618822002	HGWA-42D
92618822003	HGWC-14
92618822004	HGWC-15
92618822005	MW-21D
92618822006	MW-22
92618822007	MW-23D
92618822008	MW-35
92618822009	MW-51
92618822010	EB-2

Laboratory IDs	Client IDs
92618822011	FB-2
92618822013	HGWA-5
92618822014	HGWA-6
92618822015	HGWC-16
92618822016	HGWC-17
92618822017	HGWC-18
92618822018	MW-33
92618822019	MW-34D
92618822020	MW-37D
92618822021	DUP-2

The chain of custody (COC) indicates the samples were received between 0-6 °C. No preservation issues were noted by the laboratory.

Revised laboratory report was issued by the laboratory to correct the requested analysis list.

The laboratory reported results for pH, however, those results were not validated in this report.

RAD 226/228 was requested on the COC. However, this data was reported separately.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B and 3010A/6010D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 **Overall Assessment**

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this dataset is 100%.

1.2 **Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for metals by US EPA method 6020B (batches 715918, 717017, 719224 and 719529), and four method blanks for metals by US EPA Method 6010D (batches 716032, 717238, 718057, 718461 and 718462). Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported for metals by US EPA method 6020B, using samples HGWA-42D and MW-35, and two sample set specific MS/MSD pairs were reported for metals by US EPA Method 6010D, using samples MW-21D and MW-34D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both recoveries of calcium, iron, magnesium and sodium in the MS/MSD pair using sample MW-21D were low and outside of laboratory specified acceptance criteria. Since the calcium, iron,

magnesium and sodium concentrations in sample MW-21D were greater than four times the spiked concentration, no qualifications were applied to the data based on the MS/MSD recovery results.

The recoveries of calcium and magnesium in the MS/MSD pair using sample MW-34D were low and outside of laboratory specified acceptance criteria. Since the calcium and magnesium concentrations in sample MW-34D were greater than four times the spiked concentration, no qualifications were applied to the data based on the MS/MSD recovery results.

The MSD recovery of boron in the MS/MSD pair using sample MW-35 was high and outside of laboratory specified acceptance criteria. Since the boron concentration in sample MW-35 was greater than four times the spiked concentration, no qualifications were applied to the data based on the MS/MSD recovery results.

Batch MS/MSDs were also reported for both methods. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported with each batch. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, EB-2. Metals by US EPA methods 3005A/6020 and 3010A/6010D were not detected in the equipment blank at or above the MDLs, with the following exception.

Boron (0.074 mg/L) was detected in the equipment blank at a concentration greater than the reporting limit (RL). Since boron was previously qualified due to contamination in the field blank, no further qualifications were applied to the data.

1.7 Field Blank

One field blank was collected with the sample set, FB-2. Metals by US EPA methods 3005A/6020 and 3010A/6010D were not detected in the field blank at or above the MDLs, with the following exception.

Boron (0.029 mg/L) was detected at a concentration greater than the MDL and less than the RL in the field blank. Therefore, based on professional and technical judgment the boron concentrations in samples HGWA-42D, EB-2 and MW-37D were J+ qualified as estimated and the estimated

concentrations in samples HGWA-4, HGWA-5 and HGWA-6 were U qualified as not detected at the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HGWA-4	Boron	0.02	J	0.040	U	3
HGWA-42D	Boron	0.055	NA	0.055	J+	3
EB-2	Boron	0.074	NA	0.074	J+	3
HGWA-5	Boron	0.011	J	0.040	U	3
HGWA-6	Boron	0.015	J	0.040	U	3
MW-37D	Boron	0.11	NA	0.11	J+	3

mg/L- milligram per liter

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

One field duplicate was collected with the sample set, DUP-2. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-17.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilution.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ⊗ Holding Time

- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for meeting project objectives, with the following exceptions. The nondetect result in sample HGWC-14 was R qualified as rejected due to no recoveries in the MS/MSD pair. The non-detect mercury results in samples HGWA-5, HGWA-6, HGWC-16, HGWC-17, HGWC-18, MW-33, MW-34D, MW-37D and DUP-2 were R qualified as rejected due to holding time exceedance. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this dataset is 55%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses, with the following exceptions.

Samples HGWA-5, HGWA-6, HGWC-16, HGWC-17, HGWC-18, MW-33, MW-34D, MW-37D and DUP-2 were analyzed outside of holding time. Therefore, the nondetect mercury results in these samples were rejected.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HGWA-5	Mercury	0.00013	U H2 H1	0.00013	R	1
HGWA-6	Mercury	0.00013	U H2 H1	0.00013	R	1
HGWC-16	Mercury	0.00013	U H2 H1	0.00013	R	1
HGWC-17	Mercury	0.00013	U H2 H1	0.00013	R	1
HGWC-18	Mercury	0.00013	U H2 H1	0.00013	R	1
MW-33	Mercury	0.00013	U H2 H1	0.00013	R	1
MW-34D	Mercury	0.00013	U H2 H1	0.00013	R	1
MW-37D	Mercury	0.00013	U H2 H1	0.00013	R	1

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-2	Mercury	0.00013	U H2 H1	0.00013	R	1

mg/L- milligram per liter

U-not detected at or above the MDL

H1-Analysis conducted outside the EPA method holding time

H2-Extraction or preparation conducted outside EPA method holding time

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 716252, 719270 and 724075). Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample specific MS/MSD pairs were reported using samples HGWC-14 and HGWA-5. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

Mercury was not detected (0% recovery) in the MS/MSD pair using sample HGWC-14. Therefore, the nondetect result in sample HGWC-14 was R qualified as rejected.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HGWC-14	Mercury	0.00013	U M1	0.00013	R	4

mg/L- milligram per liter

U-not detected at or above the MDL

M1-Matrix spike recovery exceeded QC limits

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, EB-2. Mercury was not detected in the equipment blank at or above the MDLs.

2.7 Field Blank

One field blank was collected with the sample set, FB-2. Mercury was not detected in the field blank at or above the MDLs.

2.8 Field Duplicate

One field duplicate was collected with the sample set, DUP-2. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-17.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for chloride, fluoride and sulfate by US EPA method 300.0 Rev 2.1 1993, TDS by SM 2540C-2015, Alkalinity as CaCO₃ (total, bicarbonate and carbonate) by SM 2320B-2011 and Sulfide by SM 4500-S2D-2011.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank

- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 **Overall Assessment**

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this dataset is 100%.

3.2 **Holding Times**

The holding times for water samples are listed below. The holding times were met for the sample analyses.

Analysis	Holding Time
Anions (fluoride, chloride and sulfate)	28 days from collection to analysis
TDS	7 days from collection to analysis
Alkalinity	14 days from collection to analysis
Sulfide	28 days from collection to analysis

3.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for TDS (batches 715874, 716401 and 717426). Five method blanks were reported for chloride, fluoride and sulfate (batches 716707, 717795, 718499, 718643 and 718644). Three method blanks were reported for alkalinity (batches 718315, 718423 and 718424). Five method blanks were reported for sulfide (batches 715461, 716746, 717375, 717376 and 717960). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported for chloride, fluoride and sulfate using samples FB-2 and HGWC-17. Two sample set specific MS/MSD pairs were reported for alkalinity using samples MW-33 and MW-35. Two sample set specific MS/MSD pairs were reported for sulfide using samples MW-37D and MW-51. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The recoveries of chloride and sulfate in the MS/MSD pair using sample HGWC-17 were low and outside of laboratory specified acceptance criteria. Since the sulfate concentration in sample HGWC-17 was greater than four times the spiked concentration, no qualifications were applied to the sulfate data. However, the concentration of chloride in sample HGWC-17 was J- qualified as estimated with low bias.

Batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HGWC-17	Chloride	148	M1	148	J-	4

mg/L- milligram per liter

M1-Matrix spike recovery exceeded QC limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for each analysis and batch. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Four laboratory duplicates were reported for TDS using samples HGWA-4, HGWA-42D, HGWA-5 and HGWC-15. The RPD results were within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were also reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EB-2. The wet chemistry parameters were not detected in the equipment blank at or above the MDLs.

3.8 Field Blank

One field blank was collected with the sample set, FB-2. The wet chemistry parameters were not detected in the field blank at or above the MDLs.

3.9 Field Duplicate

One field duplicate was collected with the sample set, DUP-2. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-17.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team**

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits and RPD outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

RPD - Relative percent difference

Memorandum

Date: November 17, 2022
To: Whitney Law
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92618776 Revision 3**

SITE: Plant Hammond AP-2

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seventeen aqueous samples, one field duplicate, one field blank and one equipment blank, collected 2 and 9-11 August 2022, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92618776001	HGWA-4
92618776002	HGWA-42D
92618776003	HGWC-14
92618776004	HGWC-15
92618776005	MW-21D
92618776006	MW-22
92618776007	MW-23D
92618776008	MW-35
92618776009	MW-51
92618776010	EB-2

Laboratory ID	Client ID
92618776011	FB-2
92618776012	HGWA-5
92618776013	HGWA-6
92618776014	HGWC-16
92618776015	HGWC-17
92618776016	HGWC-18
92618776017	MW-33
92618776018	MW-34D
92618776019	MW-37D
92618776020	DUP-2

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The second received by signature, date and time were not documented by the subcontract laboratory on the last page of the chain of custody (COC).

The laboratory report was revised thrice. The first revision was provided on 10 October 2022 to include the Total Radium calculation for HGWA-42D and additional COCs. The second revision was provided to correctly report the collection dates for several samples. The third revision was provided to include the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) data. The revised laboratory report was identified as HAMMOND AP-2 RAD-Revised Report.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate

- ✓ Tracers and Carriers
- ⊗ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for the radium-228 data (batches 526536 and 525947). Three method blanks were reported for the radium-226 data (batches 530296, 530300 and 525513). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCS/LCSD pairs were reported for radium-226. Two LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for radium 226 using sample MW-23D. The RER result was within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank was collected with the sample set, EB-2. Radium-226 was not detected in the equipment blank above the MDC. Radium-228 (0.828 pCi/L) was detected in the equipment blank at a concentration greater than the MDC. Therefore, the radium-228 concentrations in samples HGWC-15, MW-21D and MW-22 were U qualified as not detected at the reported concentration and the radium-228 concentrations in samples HGWA-4, HGWC-14, MW-35, MW-51, HGWC-18, MW-33, MW-34D and DUP-2 were J+ qualified as estimated with high biases. Also, the combined radium concentrations in samples HGWC-14, MW-35, MW-51, HGWC-18, MW-33, MW-34D and DUP-2 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
HGWA-4	Radium-228	0.963	NA	0.963	UJ	3
HGWC-14	Total Radium Calculation	1.31	NA	1.31	UJ	3
HGWC-14	Radium-228	1.1	NA	1.1	UJ	3
HGWC-15	Radium-228	0.656	NA	0.656	UJ	3
MW-21D	Radium-228	0.691	NA	0.691	UJ	3
MW-22	Radium-228	0.789	NA	0.789	UJ	3
MW-35	Total Radium Calculation	1.71	NA	1.71	UJ	3
MW-35	Radium-228	1.39	NA	1.39	UJ	3
MW-51	Total Radium Calculation	1.02	NA	1.02	UJ	3
MW-51	Radium-228	0.958	NA	0.958	UJ	3
HGWC-18	Total Radium Calculation	1.46	NA	1.46	UJ	3
HGWC-18	Radium-228	1.08	NA	1.08	UJ	3
MW-33	Total Radium Calculation	1.52	NA	1.52	UJ	3
MW-33	Radium-228	1.08	NA	1.08	UJ	3
MW-34D	Total Radium Calculation	1.05	NA	1.05	UJ	3
MW-34D	Radium-228	0.843	NA	0.843	UJ	3
DUP-2	Total Radium Calculation	1.3	NA	1.3	UJ	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
DUP-2	Radium-228	1.11	NA	1.11	UJ	3

pCi/L-picocurie per liter

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.9 Field Blank

One field blank was collected with the sample set, FB-2. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-2. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicate and the original sample, HGWC-17.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team**

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

FIELD SAMPLING REPORTS

January/February 2022

Low-Flow Test Report:

Test Date / Time: 2/1/2022 11:33:37 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.50 ft Total Depth: 32.50 ft Initial Depth to Water: 13.42 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.50 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 11:33 AM	00:00	7.28 pH	18.61 °C	556.69 µS/cm	2.06 mg/L	12.50 NTU	1.6 mV	13.73 ft	200.00 ml/min
2/1/2022 11:38 AM	05:00	7.25 pH	17.05 °C	581.92 µS/cm	1.89 mg/L	5.43 NTU	6.0 mV	13.95 ft	200.00 ml/min
2/1/2022 11:43 AM	10:00	7.25 pH	17.41 °C	575.00 µS/cm	1.67 mg/L	3.36 NTU	6.3 mV	13.92 ft	200.00 ml/min
2/1/2022 11:48 AM	15:00	7.23 pH	17.54 °C	574.57 µS/cm	1.32 mg/L	4.09 NTU	3.3 mV	13.93 ft	200.00 ml/min
2/1/2022 11:53 AM	20:00	7.21 pH	17.45 °C	580.36 µS/cm	1.01 mg/L	2.91 NTU	4.7 mV	13.93 ft	200.00 ml/min
2/1/2022 11:58 AM	25:00	7.19 pH	17.23 °C	583.39 µS/cm	0.73 mg/L	2.07 NTU	0.7 mV	13.93 ft	200.00 ml/min
2/1/2022 12:03 PM	30:00	7.19 pH	17.55 °C	579.09 µS/cm	0.63 mg/L	3.05 NTU	1.4 mV	13.93 ft	200.00 ml/min
2/1/2022 12:08 PM	35:00	7.19 pH	17.41 °C	582.19 µS/cm	0.56 mg/L	0.40 NTU	-1.4 mV	13.94 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-1	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 10:42:11 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 27.95 ft Initial Depth to Water: 8.27 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 10:42 AM	00:00	5.14 pH	16.69 °C	232.20 µS/cm	0.63 mg/L	46.90 NTU	158.1 mV	8.34 ft	200.00 ml/min
2/1/2022 10:47 AM	05:00	5.15 pH	16.40 °C	192.80 µS/cm	0.75 mg/L	23.20 NTU	136.3 mV	8.35 ft	200.00 ml/min
2/1/2022 10:52 AM	10:00	5.13 pH	16.24 °C	231.06 µS/cm	0.48 mg/L	16.60 NTU	129.5 mV	8.35 ft	200.00 ml/min
2/1/2022 10:57 AM	15:00	5.17 pH	16.30 °C	224.16 µS/cm	0.43 mg/L	10.76 NTU	119.4 mV	8.37 ft	200.00 ml/min
2/1/2022 11:02 AM	20:00	5.17 pH	16.42 °C	233.37 µS/cm	0.42 mg/L	8.08 NTU	113.7 mV	8.37 ft	200.00 ml/min
2/1/2022 11:07 AM	25:00	5.19 pH	16.67 °C	234.45 µS/cm	0.56 mg/L	6.51 NTU	167.3 mV	8.37 ft	200.00 ml/min
2/1/2022 11:12 AM	30:00	5.20 pH	17.00 °C	192.38 µS/cm	0.43 mg/L	6.16 NTU	107.4 mV	8.40 ft	200.00 ml/min
2/1/2022 11:17 AM	35:00	5.19 pH	17.00 °C	149.79 µS/cm	0.39 mg/L	4.79 NTU	103.2 mV	8.40 ft	200.00 ml/min
2/1/2022 11:22 AM	40:00	5.24 pH	17.00 °C	231.77 µS/cm	0.43 mg/L	4.03 NTU	99.1 mV	8.40 ft	200.00 ml/min
2/1/2022 11:27 AM	45:00	5.23 pH	17.21 °C	234.14 µS/cm	0.45 mg/L	3.61 NTU	98.2 mV	8.41 ft	200.00 ml/min
2/1/2022 11:32 AM	50:00	5.24 pH	17.09 °C	199.83 µS/cm	0.51 mg/L	3.56 NTU	146.7 mV	8.41 ft	200.00 ml/min
2/1/2022 11:37 AM	55:00	5.22 pH	17.21 °C	234.19 µS/cm	0.52 mg/L	3.28 NTU	96.1 mV	8.41 ft	200.00 ml/min
2/1/2022 11:42 AM	01:00:00	5.24 pH	17.14 °C	233.68 µS/cm	0.46 mg/L	3.31 NTU	91.1 mV	8.41 ft	200.00 ml/min

2/1/2022 11:47 AM	01:05:00	5.24 pH	17.16 °C	235.29 µS/cm	0.48 mg/L	2.85 NTU	139.6 mV	8.41 ft	200.00 ml/min
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Samples

Sample ID:	Description:
HGWA-2	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:18:03 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.87 ft Total Depth: 44.87 ft Initial Depth to Water: 7.86 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 39.87 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 31 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:18 AM	00:00	7.43 pH	14.38 °C	462.35 µS/cm	2.13 mg/L	8.40 NTU	-60.5 mV	7.86 ft	200.00 ml/min
2/1/2022 9:23 AM	05:00	7.42 pH	15.95 °C	470.26 µS/cm	0.50 mg/L	2.62 NTU	-81.6 mV	7.86 ft	200.00 ml/min
2/1/2022 9:28 AM	10:00	7.43 pH	16.15 °C	463.71 µS/cm	0.88 mg/L	2.86 NTU	-85.7 mV	7.86 ft	200.00 ml/min
2/1/2022 9:33 AM	15:00	7.44 pH	16.11 °C	466.16 µS/cm	0.40 mg/L	2.63 NTU	-115.1 mV	7.88 ft	200.00 ml/min
2/1/2022 9:38 AM	20:00	7.44 pH	16.24 °C	504.38 µS/cm	0.50 mg/L	1.63 NTU	-93.6 mV	7.88 ft	200.00 ml/min
2/1/2022 9:43 AM	25:00	7.44 pH	16.24 °C	467.40 µS/cm	0.25 mg/L	0.72 NTU	-94.2 mV	7.88 ft	200.00 ml/min
2/1/2022 9:48 AM	30:00	7.44 pH	16.27 °C	467.09 µS/cm	0.31 mg/L	0.62 NTU	-94.7 mV	7.88 ft	200.00 ml/min
2/1/2022 9:53 AM	35:00	7.45 pH	16.38 °C	466.51 µS/cm	0.20 mg/L	0.68 NTU	-95.7 mV	7.88 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-3	Grab Sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:43:27 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.25 ft Initial Depth to Water: 13.34 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 56.25 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:43 AM	00:00	7.53 pH	16.74 °C	496.11 µS/cm	0.53 mg/L	8.09 NTU	-83.8 mV	15.27 ft	200.00 ml/min
2/1/2022 9:48 AM	05:00	7.51 pH	16.85 °C	499.11 µS/cm	0.42 mg/L	3.49 NTU	-119.9 mV	15.57 ft	200.00 ml/min
2/1/2022 9:53 AM	10:00	7.52 pH	16.92 °C	497.47 µS/cm	0.25 mg/L	0.92 NTU	-129.8 mV	15.94 ft	200.00 ml/min
2/1/2022 9:58 AM	15:00	7.53 pH	17.03 °C	489.27 µS/cm	0.18 mg/L	1.95 NTU	-109.8 mV	16.24 ft	200.00 ml/min
2/1/2022 10:03 AM	20:00	7.53 pH	17.01 °C	481.27 µS/cm	0.15 mg/L	0.29 NTU	-136.5 mV	16.41 ft	200.00 ml/min
2/1/2022 10:08 AM	24:37	7.53 pH	17.10 °C	474.80 µS/cm	0.13 mg/L	0.03 NTU	-136.8 mV	16.52 ft	200.00 ml/min
2/1/2022 10:13 AM	29:37	7.53 pH	17.22 °C	469.54 µS/cm	0.12 mg/L	1.72 NTU	-110.6 mV	16.59 ft	200.00 ml/min
2/1/2022 10:18 AM	34:37	7.52 pH	17.32 °C	465.38 µS/cm	0.12 mg/L	1.59 NTU	-108.8 mV	16.63 ft	200.00 ml/min
2/1/2022 10:23 AM	39:37	7.52 pH	17.27 °C	463.05 µS/cm	0.11 mg/L	1.63 NTU	-107.5 mV	16.53 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-43D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:53:41 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.28 ft Total Depth: 113.28 ft Initial Depth to Water: 13.34 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 108.28 ft Estimated Total Volume Pumped: 26 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.20 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 32 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:53 AM	00:00	8.03 pH	15.77 °C	788.25 µS/cm	2.41 mg/L	40.40 NTU	-1.7 mV	11.50 ft	200.00 ml/min
2/1/2022 9:58 AM	05:00	8.07 pH	16.24 °C	793.68 µS/cm	6.43 mg/L	30.50 NTU	-10.9 mV	11.85 ft	200.00 ml/min
2/1/2022 10:03 AM	10:00	8.11 pH	16.20 °C	798.19 µS/cm	8.19 mg/L	23.90 NTU	-10.3 mV	12.40 ft	200.00 ml/min
2/1/2022 10:08 AM	15:00	8.13 pH	16.28 °C	800.71 µS/cm	10.64 mg/L	24.30 NTU	-12.4 mV	12.62 ft	200.00 ml/min
2/1/2022 10:13 AM	20:00	8.14 pH	16.46 °C	799.34 µS/cm	12.75 mg/L	18.80 NTU	-11.7 mV	12.90 ft	200.00 ml/min
2/1/2022 10:18 AM	25:00	8.15 pH	16.72 °C	797.19 µS/cm	11.61 mg/L	17.60 NTU	-11.2 mV	13.05 ft	200.00 ml/min
2/1/2022 10:23 AM	30:00	8.16 pH	16.82 °C	795.06 µS/cm	11.42 mg/L	16.70 NTU	-11.0 mV	13.10 ft	200.00 ml/min
2/1/2022 10:28 AM	35:00	8.17 pH	16.28 °C	804.14 µS/cm	12.45 mg/L	16.60 NTU	-13.9 mV	13.30 ft	200.00 ml/min
2/1/2022 10:33 AM	40:00	8.18 pH	16.41 °C	801.48 µS/cm	12.08 mg/L	14.20 NTU	-13.6 mV	13.60 ft	100.00 ml/min
2/1/2022 10:38 AM	45:00	8.19 pH	16.45 °C	804.07 µS/cm	11.86 mg/L	14.00 NTU	-14.6 mV	13.60 ft	100.00 ml/min
2/1/2022 10:43 AM	50:00	8.20 pH	16.46 °C	804.80 µS/cm	11.98 mg/L	16.10 NTU	-16.6 mV	13.65 ft	100.00 ml/min
2/1/2022 10:48 AM	55:00	8.21 pH	16.60 °C	803.09 µS/cm	12.00 mg/L	18.90 NTU	-16.9 mV	13.70 ft	100.00 ml/min
2/1/2022 10:53 AM	01:00:00	8.21 pH	16.72 °C	803.58 µS/cm	12.70 mg/L	16.30 NTU	-17.0 mV	13.75 ft	100.00 ml/min

2/1/2022 10:58 AM	01:05:00	8.21 pH	16.82 °C	802.58 µS/cm	12.73 mg/L	20.00 NTU	-14.3 mV	13.90 ft	100.00 ml/min
2/1/2022 11:03 AM	01:10:00	8.23 pH	16.73 °C	806.13 µS/cm	12.61 mg/L	24.90 NTU	-15.9 mV	14.00 ft	100.00 ml/min
2/1/2022 11:08 AM	01:15:00	8.23 pH	16.82 °C	799.63 µS/cm	12.22 mg/L	15.60 NTU	-12.5 mV	14.10 ft	100.00 ml/min
2/1/2022 11:13 AM	01:20:00	8.23 pH	16.60 °C	803.48 µS/cm	12.18 mg/L	15.20 NTU	-11.4 mV	14.15 ft	100.00 ml/min
2/1/2022 11:18 AM	01:25:00	8.23 pH	16.84 °C	803.65 µS/cm	12.11 mg/L	11.70 NTU	-11.5 mV	14.23 ft	100.00 ml/min
2/1/2022 11:23 AM	01:30:00	8.23 pH	17.08 °C	801.82 µS/cm	12.10 mg/L	11.60 NTU	-12.9 mV	14.35 ft	100.00 ml/min
2/1/2022 11:28 AM	01:35:00	8.24 pH	17.10 °C	800.28 µS/cm	12.06 mg/L	9.96 NTU	-10.9 mV	14.35 ft	100.00 ml/min
2/1/2022 11:33 AM	01:40:00	8.24 pH	16.98 °C	802.78 µS/cm	12.20 mg/L	8.43 NTU	-10.7 mV	14.35 ft	100.00 ml/min
2/1/2022 11:38 AM	01:45:00	8.25 pH	16.55 °C	807.34 µS/cm	12.65 mg/L	8.17 NTU	-10.4 mV	14.40 ft	100.00 ml/min
2/1/2022 11:43 AM	01:50:00	8.25 pH	16.35 °C	809.51 µS/cm	12.60 mg/L	8.27 NTU	-11.9 mV	14.50 ft	100.00 ml/min
2/1/2022 11:48 AM	01:55:00	8.25 pH	16.28 °C	809.68 µS/cm	12.89 mg/L	7.64 NTU	-10.6 mV	14.50 ft	100.00 ml/min
2/1/2022 11:53 AM	02:00:00	8.25 pH	16.23 °C	811.81 µS/cm	12.86 mg/L	7.36 NTU	-10.5 mV	14.50 ft	100.00 ml/min
2/1/2022 11:58 AM	02:05:00	8.25 pH	16.20 °C	811.57 µS/cm	12.90 mg/L	6.17 NTU	-11.8 mV	14.50 ft	100.00 ml/min
2/1/2022 12:03 PM	02:10:00	8.26 pH	16.22 °C	810.30 µS/cm	12.71 mg/L	5.74 NTU	-10.5 mV	14.51 ft	100.00 ml/min
2/1/2022 12:08 PM	02:15:00	8.26 pH	16.19 °C	812.80 µS/cm	12.90 mg/L	5.76 NTU	-12.1 mV	14.51 ft	100.00 ml/min
2/1/2022 12:13 PM	02:20:00	8.26 pH	16.16 °C	812.48 µS/cm	12.88 mg/L	5.35 NTU	-12.2 mV	14.52 ft	100.00 ml/min
2/1/2022 12:18 PM	02:25:00	8.26 pH	16.22 °C	811.47 µS/cm	12.87 mg/L	5.23 NTU	-12.5 mV	14.52 ft	100.00 ml/min
2/1/2022 12:23 PM	02:30:00	8.27 pH	16.24 °C	812.48 µS/cm	12.75 mg/L	7.30 NTU	-12.6 mV	14.53 ft	100.00 ml/min
2/1/2022 12:28 PM	02:35:00	8.27 pH	16.33 °C	810.61 µS/cm	12.74 mg/L	6.77 NTU	-11.4 mV	14.54 ft	100.00 ml/min
2/1/2022 12:33 PM	02:40:00	8.27 pH	16.32 °C	812.17 µS/cm	12.75 mg/L	6.80 NTU	-11.4 mV	14.54 ft	100.00 ml/min
2/1/2022 12:38 PM	02:45:00	8.27 pH	16.39 °C	809.86 µS/cm	12.75 mg/L	6.52 NTU	-11.5 mV	14.54 ft	100.00 ml/min
2/1/2022 12:43 PM	02:50:00	8.27 pH	16.48 °C	810.57 µS/cm	12.73 mg/L	6.00 NTU	-12.1 mV	14.54 ft	100.00 ml/min
2/1/2022 12:47 PM	02:53:59	8.27 pH	16.46 °C	809.23 µS/cm	13.38 mg/L	6.75 NTU	-9.9 mV	14.54 ft	100.00 ml/min
2/1/2022 12:52 PM	02:58:59	8.27 pH	16.51 °C	796.69 µS/cm	12.96 mg/L	6.30 NTU	-13.0 mV	14.54 ft	100.00 ml/min
2/1/2022 12:57 PM	03:03:59	8.27 pH	16.44 °C	808.16 µS/cm	12.86 mg/L	6.41 NTU	-14.2 mV	14.54 ft	100.00 ml/min
2/1/2022 1:01 PM	03:07:44	8.26 pH	16.49 °C	782.67 µS/cm	13.44 mg/L	5.53 NTU	-13.9 mV	14.54 ft	100.00 ml/min
2/1/2022 1:06 PM	03:12:44	8.26 pH	16.49 °C	796.34 µS/cm	13.14 mg/L	13.70 NTU	-15.4 mV	14.54 ft	100.00 ml/min
2/1/2022 1:11 PM	03:17:44	8.26 pH	16.46 °C	806.69 µS/cm	12.44 mg/L	4.35 NTU	-18.4 mV	14.54 ft	100.00 ml/min
2/1/2022 1:16 PM	03:22:44	8.26 pH	16.55 °C	800.04 µS/cm	12.24 mg/L	4.36 NTU	-17.6 mV	14.54 ft	100.00 ml/min

2/1/2022 1:21 PM	03:27:44	8.26 pH	16.57 °C	799.46 µS/cm	12.26 mg/L	4.20 NTU	-18.6 mV	14.54 ft	100.00 ml/min
2/1/2022 1:26 PM	03:32:44	8.25 pH	16.83 °C	795.30 µS/cm	12.14 mg/L	4.25 NTU	-20.8 mV	14.54 ft	100.00 ml/min

Samples

Sample ID:	Description:
HGWA-44D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/7/2022 1:43:10 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.8 ft Total Depth: 25.8 ft Initial Depth to Water: 4.97 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 20.80 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.24 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 47 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/7/2022 1:43 PM	00:00	5.16 pH	15.24 °C	69.88 µS/cm	2.71 mg/L	7.00 NTU	142.6 mV	4.97 ft	200.00 ml/min
2/7/2022 1:48 PM	05:00	5.17 pH	15.66 °C	71.11 µS/cm	2.59 mg/L	6.97 NTU	174.9 mV	5.21 ft	200.00 ml/min
2/7/2022 1:53 PM	10:00	5.10 pH	15.68 °C	71.19 µS/cm	2.31 mg/L	6.91 NTU	106.3 mV	5.21 ft	200.00 ml/min
2/7/2022 1:58 PM	15:00	5.17 pH	15.84 °C	72.17 µS/cm	2.18 mg/L	6.39 NTU	153.6 mV	5.21 ft	200.00 ml/min
2/7/2022 2:03 PM	20:00	5.19 pH	15.83 °C	72.04 µS/cm	2.13 mg/L	5.85 NTU	92.8 mV	5.21 ft	200.00 ml/min
2/7/2022 2:08 PM	25:00	5.20 pH	15.84 °C	73.18 µS/cm	2.14 mg/L	5.47 NTU	90.4 mV	5.21 ft	200.00 ml/min
2/7/2022 2:13 PM	30:00	5.18 pH	15.82 °C	73.53 µS/cm	2.09 mg/L	5.14 NTU	143.0 mV	5.21 ft	200.00 ml/min
2/7/2022 2:18 PM	35:00	5.22 pH	15.80 °C	74.30 µS/cm	2.14 mg/L	5.11 NTU	85.3 mV	5.21 ft	200.00 ml/min
2/7/2022 2:23 PM	40:00	5.24 pH	15.98 °C	74.33 µS/cm	2.17 mg/L	4.92 NTU	83.6 mV	5.21 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-4	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/7/2022 3:21:07 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 27.95 ft Initial Depth to Water: 3.98 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 18 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/7/2022 3:21 PM	00:00	6.40 pH	15.93 °C	168.42 µS/cm	2.96 mg/L	14.20 NTU	85.1 mV	4.37 ft	200.00 ml/min
2/7/2022 3:26 PM	05:00	6.40 pH	15.89 °C	178.86 µS/cm	2.00 mg/L	9.41 NTU	61.4 mV	4.52 ft	200.00 ml/min
2/7/2022 3:31 PM	10:00	6.45 pH	15.84 °C	185.96 µS/cm	1.30 mg/L	8.63 NTU	60.8 mV	4.61 ft	200.00 ml/min
2/7/2022 3:36 PM	15:00	6.45 pH	15.85 °C	188.21 µS/cm	0.99 mg/L	8.92 NTU	43.4 mV	4.71 ft	200.00 ml/min
2/7/2022 3:41 PM	20:00	6.44 pH	15.98 °C	189.29 µS/cm	0.75 mg/L	8.14 NTU	43.7 mV	4.77 ft	200.00 ml/min
2/7/2022 3:46 PM	25:00	6.45 pH	15.89 °C	190.00 µS/cm	0.66 mg/L	7.83 NTU	34.4 mV	4.83 ft	200.00 ml/min
2/7/2022 3:51 PM	30:00	6.46 pH	15.89 °C	192.78 µS/cm	0.55 mg/L	7.66 NTU	37.3 mV	4.89 ft	200.00 ml/min
2/7/2022 3:56 PM	35:00	6.46 pH	15.89 °C	194.13 µS/cm	0.47 mg/L	7.58 NTU	31.6 mV	4.94 ft	200.00 ml/min
2/7/2022 4:01 PM	40:00	6.47 pH	15.95 °C	197.27 µS/cm	0.42 mg/L	7.58 NTU	29.9 mV	4.98 ft	200.00 ml/min
2/7/2022 4:06 PM	45:00	6.48 pH	15.98 °C	197.09 µS/cm	0.42 mg/L	7.13 NTU	29.9 mV	5.00 ft	200.00 ml/min
2/7/2022 4:11 PM	50:00	6.48 pH	15.93 °C	198.76 µS/cm	0.39 mg/L	6.76 NTU	26.5 mV	5.03 ft	200.00 ml/min
2/7/2022 4:16 PM	55:00	6.49 pH	15.98 °C	201.28 µS/cm	0.34 mg/L	6.90 NTU	25.6 mV	5.03 ft	200.00 ml/min
2/7/2022 4:21 PM	01:00:00	6.49 pH	16.03 °C	201.10 µS/cm	0.33 mg/L	6.69 NTU	25.4 mV	5.07 ft	200.00 ml/min

2/7/2022 4:26 PM	01:05:00	6.49 pH	16.11 °C	202.96 µS/cm	0.31 mg/L	6.34 NTU	24.2 mV	5.07 ft	200.00 ml/min
2/7/2022 4:31 PM	01:10:00	6.49 pH	16.20 °C	202.58 µS/cm	0.29 mg/L	5.33 NTU	25.4 mV	5.08 ft	200.00 ml/min
2/7/2022 4:36 PM	01:15:00	6.50 pH	16.54 °C	201.00 µS/cm	0.31 mg/L	5.10 NTU	26.3 mV	5.11 ft	200.00 ml/min
2/7/2022 4:41 PM	01:20:00	6.50 pH	16.60 °C	203.53 µS/cm	0.27 mg/L	5.03 NTU	24.4 mV	5.12 ft	200.00 ml/min
2/7/2022 4:46 PM	01:25:00	6.51 pH	16.59 °C	206.86 µS/cm	0.24 mg/L	4.95 NTU	21.4 mV	5.12 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-5	Grab sample

Low-Flow Test Report:

Test Date / Time: 2/7/2022 3:31:16 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 40.52 ft Total Depth: 50.52 ft Initial Depth to Water: 3.39 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 45.52 ft Estimated Total Volume Pumped: 12 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.77 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 47 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/7/2022 3:31 PM	00:00	7.24 pH	16.57 °C	379.10 µS/cm	4.30 mg/L	1.71 NTU	-68.9 mV	3.81 ft	200.00 ml/min
2/7/2022 3:36 PM	05:00	7.49 pH	15.93 °C	274.84 µS/cm	1.32 mg/L	5.50 NTU	-112.3 mV	4.38 ft	200.00 ml/min
2/7/2022 3:41 PM	10:00	7.61 pH	16.11 °C	377.65 µS/cm	1.92 mg/L	2.73 NTU	-104.0 mV	4.80 ft	200.00 ml/min
2/7/2022 3:46 PM	15:00	7.65 pH	16.06 °C	377.78 µS/cm	1.82 mg/L	1.29 NTU	-104.2 mV	4.93 ft	200.00 ml/min
2/7/2022 3:51 PM	20:00	7.63 pH	16.11 °C	378.70 µS/cm	1.29 mg/L	1.71 NTU	-109.7 mV	5.12 ft	200.00 ml/min
2/7/2022 3:56 PM	25:00	7.65 pH	16.16 °C	393.46 µS/cm	1.23 mg/L	1.50 NTU	-119.0 mV	5.12 ft	200.00 ml/min
2/7/2022 4:01 PM	30:00	7.65 pH	16.19 °C	378.51 µS/cm	0.93 mg/L	1.57 NTU	-121.9 mV	5.12 ft	200.00 ml/min
2/7/2022 4:06 PM	35:00	7.65 pH	16.23 °C	378.89 µS/cm	0.66 mg/L	1.35 NTU	-124.9 mV	5.16 ft	200.00 ml/min
2/7/2022 4:11 PM	40:00	7.63 pH	16.19 °C	378.94 µS/cm	0.87 mg/L	1.14 NTU	-124.1 mV	5.16 ft	200.00 ml/min
2/7/2022 4:16 PM	45:00	7.65 pH	16.22 °C	383.98 µS/cm	0.74 mg/L	1.33 NTU	-125.4 mV	5.16 ft	200.00 ml/min
2/7/2022 4:21 PM	50:00	7.65 pH	16.24 °C	378.11 µS/cm	0.63 mg/L	1.54 NTU	-126.2 mV	5.16 ft	200.00 ml/min
2/7/2022 4:26 PM	55:00	7.65 pH	16.33 °C	378.16 µS/cm	0.80 mg/L	1.24 NTU	-124.9 mV	5.16 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-6	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/7/2022 3:19:42 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-42D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.03 ft Total Depth: 68.03 ft Initial Depth to Water: 9.6 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 63.03 ft Estimated Total Volume Pumped: 6.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.95 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/7/2022 3:19 PM	00:00	7.72 pH	17.59 °C	280.45 µS/cm	1.64 mg/L	3.00 NTU	-41.4 mV	9.60 ft	200.00 ml/min
2/7/2022 3:22 PM	02:39	7.81 pH	17.19 °C	289.70 µS/cm	0.52 mg/L	2.85 NTU	-106.3 mV	10.63 ft	200.00 ml/min
2/7/2022 3:27 PM	07:39	7.84 pH	17.63 °C	278.62 µS/cm	0.20 mg/L	2.91 NTU	-95.7 mV	11.00 ft	200.00 ml/min
2/7/2022 3:32 PM	12:39	7.83 pH	17.38 °C	279.18 µS/cm	0.16 mg/L	1.52 NTU	-115.5 mV	11.32 ft	200.00 ml/min
2/7/2022 3:37 PM	17:39	7.82 pH	17.46 °C	280.28 µS/cm	0.16 mg/L	0.75 NTU	-117.6 mV	11.43 ft	200.00 ml/min
2/7/2022 3:42 PM	22:39	7.83 pH	17.49 °C	280.20 µS/cm	0.15 mg/L	1.70 NTU	-102.5 mV	11.45 ft	200.00 ml/min
2/7/2022 3:47 PM	27:39	7.84 pH	17.48 °C	281.36 µS/cm	0.16 mg/L	0.93 NTU	-122.2 mV	11.50 ft	200.00 ml/min
2/7/2022 3:52 PM	32:39	7.85 pH	17.63 °C	281.33 µS/cm	0.16 mg/L	1.06 NTU	-105.7 mV	11.55 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-42D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 2:48:13 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.00 ft Total Depth: 43.00 ft Initial Depth to Water: 24.45 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 2:48 PM	00:00	5.14 pH	20.79 °C	2,578.3 µS/cm	1.52 mg/L	3.41 NTU	9.1 mV	24.45 ft	100.00 ml/min
2/9/2022 2:53 PM	05:00	5.11 pH	20.73 °C	2,595.3 µS/cm	1.40 mg/L	2.41 NTU	4.8 mV	24.49 ft	100.00 ml/min
2/9/2022 2:58 PM	10:00	5.09 pH	20.82 °C	2,560.7 µS/cm	1.55 mg/L	3.33 NTU	2.0 mV	24.49 ft	100.00 ml/min
2/9/2022 3:03 PM	15:00	5.06 pH	20.84 °C	2,558.6 µS/cm	1.49 mg/L	2.73 NTU	4.3 mV	24.49 ft	100.00 ml/min
2/9/2022 3:08 PM	20:00	5.03 pH	20.53 °C	2,559.2 µS/cm	1.57 mg/L	4.41 NTU	5.2 mV	24.49 ft	100.00 ml/min
2/9/2022 3:13 PM	25:00	4.99 pH	20.73 °C	2,561.7 µS/cm	1.59 mg/L	4.19 NTU	4.0 mV	24.49 ft	100.00 ml/min
2/9/2022 3:18 PM	30:00	4.97 pH	20.75 °C	2,555.1 µS/cm	1.53 mg/L	3.18 NTU	6.6 mV	24.49 ft	100.00 ml/min

Samples

Sample ID:	Description:
HGWC-14	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 1:14:21 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28 ft Total Depth: 38 ft Initial Depth to Water: 9.98 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 1:14 PM	00:00	6.14 pH	17.09 °C	1,122.1 µS/cm	0.54 mg/L	1.20 NTU	99.1 mV	10.43 ft	200.00 ml/min
2/8/2022 1:19 PM	05:00	6.07 pH	17.36 °C	1,099.5 µS/cm	0.36 mg/L	1.46 NTU	116.4 mV	10.44 ft	200.00 ml/min
2/8/2022 1:24 PM	10:00	6.06 pH	17.38 °C	1,089.5 µS/cm	0.40 mg/L	1.59 NTU	114.9 mV	10.43 ft	200.00 ml/min
2/8/2022 1:29 PM	15:00	6.06 pH	17.47 °C	1,094.1 µS/cm	0.60 mg/L	1.24 NTU	115.5 mV	10.43 ft	200.00 ml/min
2/8/2022 1:34 PM	20:00	6.08 pH	17.54 °C	1,090.7 µS/cm	0.77 mg/L	1.52 NTU	119.0 mV	10.43 ft	200.00 ml/min
2/8/2022 1:39 PM	25:00	6.07 pH	17.56 °C	1,069.9 µS/cm	0.83 mg/L	1.35 NTU	89.1 mV	10.43 ft	200.00 ml/min
2/8/2022 1:44 PM	30:00	6.04 pH	17.34 °C	1,081.7 µS/cm	0.74 mg/L	1.40 NTU	121.0 mV	10.43 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-15	Grab sample
DUP-2	Grab sample

Low-Flow Test Report:

Test Date / Time: 2/8/2022 11:34:09 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.1 ft Total Depth: 33.1 ft Initial Depth to Water: 7.72 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 28.1 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.68 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 11:34 AM	00:00	7.11 pH	17.14 °C	1,097.0 µS/cm	0.83 mg/L	3.32 NTU	-59.0 mV	8.32 ft	200.00 ml/min
2/8/2022 11:39 AM	05:00	7.14 pH	17.60 °C	1,097.8 µS/cm	0.24 mg/L	2.78 NTU	-64.9 mV	8.32 ft	200.00 ml/min
2/8/2022 11:44 AM	10:00	7.15 pH	17.73 °C	1,072.8 µS/cm	0.18 mg/L	0.95 NTU	-82.5 mV	8.35 ft	200.00 ml/min
2/8/2022 11:49 AM	15:00	7.17 pH	17.79 °C	1,069.3 µS/cm	0.13 mg/L	1.17 NTU	-73.8 mV	8.40 ft	200.00 ml/min
2/8/2022 11:54 AM	20:00	7.17 pH	17.77 °C	1,074.0 µS/cm	0.12 mg/L	0.87 NTU	-75.0 mV	8.43 ft	200.00 ml/min
2/8/2022 11:59 AM	25:00	7.18 pH	18.03 °C	1,069.5 µS/cm	0.10 mg/L	1.08 NTU	-89.1 mV	8.43 ft	200.00 ml/min
2/8/2022 12:04 PM	30:00	7.18 pH	17.92 °C	1,069.2 µS/cm	0.10 mg/L	1.02 NTU	-75.2 mV	8.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-16	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 9:28:44 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.8 ft Total Depth: 27.8 ft Initial Depth to Water: 13.1 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.8 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 9:28 AM	00:00	6.50 pH	14.58 °C	1,414.4 µS/cm	3.24 mg/L	16.20 NTU	283.8 mV	13.32 ft	200.00 ml/min
2/8/2022 9:33 AM	05:00	6.43 pH	16.80 °C	1,362.0 µS/cm	2.00 mg/L	18.50 NTU	414.4 mV	13.43 ft	200.00 ml/min
2/8/2022 9:38 AM	10:00	6.43 pH	17.02 °C	1,350.7 µS/cm	1.29 mg/L	17.30 NTU	362.6 mV	13.42 ft	200.00 ml/min
2/8/2022 9:43 AM	15:00	6.42 pH	17.17 °C	1,344.8 µS/cm	0.85 mg/L	12.70 NTU	275.6 mV	13.46 ft	200.00 ml/min
2/8/2022 9:48 AM	20:00	6.42 pH	17.23 °C	1,336.3 µS/cm	0.61 mg/L	13.19 NTU	151.3 mV	13.45 ft	200.00 ml/min
2/8/2022 9:53 AM	25:00	6.42 pH	17.32 °C	1,339.4 µS/cm	0.47 mg/L	11.88 NTU	164.3 mV	13.46 ft	200.00 ml/min
2/8/2022 9:58 AM	30:00	6.42 pH	17.38 °C	1,329.4 µS/cm	0.38 mg/L	9.33 NTU	108.1 mV	13.45 ft	200.00 ml/min
2/8/2022 10:03 AM	35:00	6.42 pH	17.48 °C	1,343.8 µS/cm	0.31 mg/L	8.72 NTU	127.1 mV	13.47 ft	200.00 ml/min
2/8/2022 10:08 AM	40:00	6.42 pH	17.46 °C	1,346.1 µS/cm	0.26 mg/L	7.26 NTU	120.0 mV	13.45 ft	200.00 ml/min
2/8/2022 10:13 AM	45:00	6.42 pH	17.63 °C	1,339.3 µS/cm	0.23 mg/L	6.37 NTU	84.7 mV	13.46 ft	200.00 ml/min
2/8/2022 10:18 AM	50:00	6.42 pH	17.63 °C	1,346.1 µS/cm	0.21 mg/L	5.50 NTU	105.2 mV	13.47 ft	200.00 ml/min
2/8/2022 10:23 AM	55:00	6.42 pH	17.73 °C	1,345.3 µS/cm	0.19 mg/L	5.09 NTU	77.0 mV	13.46 ft	200.00 ml/min
2/8/2022 10:28 AM	01:00:00	6.42 pH	17.79 °C	1,351.9 µS/cm	0.18 mg/L	4.92 NTU	97.5 mV	13.46 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-17	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 3:05:17 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.8 ft Total Depth: 27.8 ft Initial Depth to Water: 13.05 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 22.80 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 60 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 3:05 PM	00:00	4.65 pH	18.28 °C	1,932.7 µS/cm	1.07 mg/L	2.50 NTU	170.1 mV	13.19 ft	200.00 ml/min
2/8/2022 3:10 PM	05:00	4.62 pH	17.42 °C	1,954.3 µS/cm	1.52 mg/L	0.97 NTU	167.0 mV	13.21 ft	200.00 ml/min
2/8/2022 3:15 PM	10:00	4.61 pH	17.34 °C	2,013.0 µS/cm	1.22 mg/L	0.71 NTU	166.4 mV	13.21 ft	200.00 ml/min
2/8/2022 3:20 PM	15:00	4.60 pH	17.23 °C	1,924.4 µS/cm	1.25 mg/L	0.70 NTU	166.7 mV	13.22 ft	200.00 ml/min
2/8/2022 3:25 PM	20:00	4.59 pH	17.30 °C	1,911.6 µS/cm	1.38 mg/L	0.61 NTU	165.9 mV	13.23 ft	200.00 ml/min
2/8/2022 3:30 PM	25:00	4.59 pH	16.87 °C	1,994.5 µS/cm	1.25 mg/L	0.61 NTU	223.4 mV	13.23 ft	200.00 ml/min
2/8/2022 3:35 PM	30:00	4.59 pH	16.80 °C	1,951.5 µS/cm	1.37 mg/L	0.94 NTU	165.8 mV	13.23 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-18	Grab Sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 1:15:21 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-21D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.80 ft Total Depth: 51.80 ft Initial Depth to Water: 12.53 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 46.80 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 54 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 1:15 PM	00:00	7.09 pH	17.41 °C	2,175.6 µS/cm	0.88 mg/L	27.20 NTU	-161.7 mV	12.84 ft	200.00 ml/min
2/8/2022 1:20 PM	05:00	7.08 pH	17.46 °C	2,204.4 µS/cm	0.49 mg/L	44.80 NTU	-149.3 mV	12.86 ft	200.00 ml/min
2/8/2022 1:25 PM	10:00	7.09 pH	17.51 °C	2,213.3 µS/cm	0.37 mg/L	56.20 NTU	-145.6 mV	12.86 ft	200.00 ml/min
2/8/2022 1:30 PM	15:00	7.08 pH	17.57 °C	2,209.9 µS/cm	0.32 mg/L	39.90 NTU	-141.7 mV	12.87 ft	200.00 ml/min
2/8/2022 1:35 PM	20:00	7.09 pH	17.55 °C	2,310.2 µS/cm	0.33 mg/L	29.70 NTU	-151.4 mV	12.87 ft	200.00 ml/min
2/8/2022 1:40 PM	25:00	7.09 pH	17.63 °C	2,167.8 µS/cm	0.31 mg/L	27.40 NTU	-136.4 mV	12.87 ft	200.00 ml/min
2/8/2022 1:45 PM	30:00	7.09 pH	17.67 °C	2,152.4 µS/cm	0.26 mg/L	22.00 NTU	-135.1 mV	12.91 ft	200.00 ml/min
2/8/2022 1:50 PM	35:00	7.09 pH	17.66 °C	2,141.8 µS/cm	0.28 mg/L	18.30 NTU	-132.0 mV	12.91 ft	200.00 ml/min
2/8/2022 1:55 PM	40:00	7.08 pH	17.63 °C	2,163.0 µS/cm	0.36 mg/L	12.91 NTU	-130.8 mV	12.91 ft	200.00 ml/min
2/8/2022 2:00 PM	45:00	7.09 pH	17.63 °C	2,114.4 µS/cm	0.26 mg/L	12.70 NTU	-141.5 mV	12.91 ft	200.00 ml/min
2/8/2022 2:05 PM	50:00	7.09 pH	17.72 °C	2,111.4 µS/cm	0.27 mg/L	12.47 NTU	-128.6 mV	12.91 ft	200.00 ml/min
2/8/2022 2:10 PM	55:00	7.08 pH	17.72 °C	2,108.4 µS/cm	0.27 mg/L	12.07 NTU	-127.2 mV	12.91 ft	200.00 ml/min
2/8/2022 2:15 PM	01:00:00	7.08 pH	17.76 °C	2,105.6 µS/cm	0.28 mg/L	6.97 NTU	-126.0 mV	12.91 ft	200.00 ml/min

2/8/2022 2:20 PM	01:05:00	7.08 pH	17.76 °C	2,099.5 μ S/cm	0.30 mg/L	5.51 NTU	-125.0 mV	12.91 ft	200.00 ml/min
2/8/2022 2:25 PM	01:10:00	7.09 pH	17.80 °C	2,096.0 μ S/cm	0.33 mg/L	4.74 NTU	-124.4 mV	12.91 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-21D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 3:34:03 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.58 ft Total Depth: 37.58 ft Initial Depth to Water: 7.20 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 32.58 ft Estimated Total Volume Pumped: 8.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 5.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 3:34 PM	00:00	5.37 pH	16.38 °C	1,252.7 µS/cm	3.87 mg/L	4.03 NTU	213.0 mV	8.18 ft	100.00 ml/min
2/8/2022 3:39 PM	05:00	5.34 pH	16.51 °C	1,236.2 µS/cm	3.73 mg/L	7.98 NTU	229.7 mV	8.61 ft	100.00 ml/min
2/8/2022 3:44 PM	10:00	5.33 pH	16.65 °C	1,241.0 µS/cm	3.75 mg/L	7.16 NTU	371.4 mV	9.11 ft	100.00 ml/min
2/8/2022 3:49 PM	15:00	5.32 pH	16.83 °C	1,238.2 µS/cm	3.73 mg/L	5.12 NTU	422.8 mV	9.52 ft	100.00 ml/min
2/8/2022 3:54 PM	20:00	5.32 pH	16.92 °C	1,236.4 µS/cm	3.67 mg/L	4.38 NTU	445.3 mV	9.87 ft	100.00 ml/min
2/8/2022 3:59 PM	25:00	5.32 pH	16.92 °C	1,232.6 µS/cm	3.57 mg/L	3.61 NTU	454.2 mV	10.21 ft	100.00 ml/min
2/8/2022 4:04 PM	30:00	5.33 pH	16.83 °C	1,224.4 µS/cm	3.42 mg/L	2.89 NTU	330.0 mV	10.48 ft	100.00 ml/min
2/8/2022 4:09 PM	35:00	5.33 pH	16.92 °C	1,235.3 µS/cm	3.28 mg/L	3.06 NTU	455.2 mV	10.80 ft	100.00 ml/min
2/8/2022 4:14 PM	40:00	5.34 pH	16.87 °C	1,222.8 µS/cm	3.14 mg/L	2.75 NTU	332.9 mV	11.03 ft	100.00 ml/min
2/8/2022 4:19 PM	45:00	5.34 pH	16.86 °C	1,235.6 µS/cm	3.00 mg/L	2.90 NTU	449.1 mV	11.26 ft	100.00 ml/min
2/8/2022 4:24 PM	50:00	5.35 pH	16.90 °C	1,224.8 µS/cm	2.86 mg/L	2.93 NTU	326.4 mV	11.48 ft	100.00 ml/min
2/8/2022 4:29 PM	55:00	5.34 pH	16.96 °C	1,236.5 µS/cm	2.73 mg/L	2.52 NTU	442.9 mV	11.68 ft	100.00 ml/min
2/8/2022 4:34 PM	01:00:00	5.35 pH	16.92 °C	1,235.6 µS/cm	2.60 mg/L	3.08 NTU	451.7 mV	11.88 ft	100.00 ml/min

2/8/2022 4:39 PM	01:05:00	5.36 pH	16.69 °C	1,228.3 μ S/cm	2.49 mg/L	2.58 NTU	320.6 mV	12.07 ft	100.00 ml/min
2/8/2022 4:44 PM	01:10:00	5.36 pH	16.72 °C	1,238.8 μ S/cm	2.39 mg/L	2.86 NTU	423.4 mV	12.23 ft	100.00 ml/min
2/8/2022 4:49 PM	01:15:00	5.36 pH	16.65 °C	1,228.6 μ S/cm	2.28 mg/L	3.13 NTU	312.5 mV	12.42 ft	100.00 ml/min
2/8/2022 4:54 PM	01:20:00	5.37 pH	16.44 °C	1,240.6 μ S/cm	2.19 mg/L	3.75 NTU	412.8 mV	12.52 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-22	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 9:13:41 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.79 ft Total Depth: 62.79 ft Initial Depth to Water: 14.05 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 57.79 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 30 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 9:13 AM	00:00	6.98 pH	13.40 °C	1,503.6 µS/cm	1.56 mg/L	2.70 NTU	-17.3 mV	14.20 ft	200.00 ml/min
2/10/2022 9:18 AM	05:00	6.90 pH	16.03 °C	1,487.3 µS/cm	0.45 mg/L	1.33 NTU	-10.7 mV	14.20 ft	200.00 ml/min
2/10/2022 9:23 AM	10:00	6.89 pH	16.37 °C	1,503.6 µS/cm	0.34 mg/L	0.84 NTU	-14.3 mV	14.20 ft	200.00 ml/min
2/10/2022 9:28 AM	15:00	6.89 pH	16.55 °C	1,494.8 µS/cm	0.28 mg/L	0.90 NTU	-13.2 mV	14.20 ft	200.00 ml/min
2/10/2022 9:33 AM	20:00	6.89 pH	16.52 °C	1,499.3 µS/cm	0.25 mg/L	0.94 NTU	-8.5 mV	14.20 ft	200.00 ml/min
2/10/2022 9:38 AM	25:00	6.88 pH	16.42 °C	1,511.3 µS/cm	0.22 mg/L	0.25 NTU	-10.6 mV	14.20 ft	200.00 ml/min
2/10/2022 9:43 AM	30:00	6.87 pH	16.44 °C	1,522.4 µS/cm	0.21 mg/L	1.13 NTU	-8.6 mV	14.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-23D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 3:40:20 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.93 ft Total Depth: 37.93 ft Initial Depth to Water: 20.15 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 32.93 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 3:40 PM	00:00	4.38 pH	18.62 °C	2,524.9 µS/cm	5.56 mg/L	22.40 NTU	41.5 mV	20.15 ft	200.00 ml/min
2/8/2022 3:45 PM	05:00	4.32 pH	18.07 °C	2,480.2 µS/cm	1.82 mg/L	31.00 NTU	145.7 mV	20.95 ft	200.00 ml/min
2/8/2022 3:50 PM	10:00	4.32 pH	18.16 °C	2,473.8 µS/cm	1.55 mg/L	32.30 NTU	151.6 mV	21.00 ft	200.00 ml/min
2/8/2022 3:55 PM	15:00	4.34 pH	18.25 °C	2,472.6 µS/cm	1.19 mg/L	26.50 NTU	136.1 mV	21.00 ft	200.00 ml/min
2/8/2022 4:00 PM	20:00	4.36 pH	18.19 °C	2,476.4 µS/cm	0.99 mg/L	17.30 NTU	115.3 mV	21.00 ft	200.00 ml/min
2/8/2022 4:05 PM	25:00	4.37 pH	18.20 °C	2,474.4 µS/cm	0.94 mg/L	11.90 NTU	104.1 mV	21.00 ft	200.00 ml/min
2/8/2022 4:10 PM	30:00	4.38 pH	18.24 °C	2,473.1 µS/cm	0.86 mg/L	9.84 NTU	92.1 mV	21.00 ft	200.00 ml/min
2/8/2022 4:15 PM	35:00	4.38 pH	18.20 °C	2,473.8 µS/cm	0.84 mg/L	6.96 NTU	93.5 mV	21.00 ft	200.00 ml/min
2/8/2022 4:20 PM	40:00	4.40 pH	18.15 °C	2,472.2 µS/cm	0.77 mg/L	6.62 NTU	90.5 mV	21.00 ft	200.00 ml/min
2/8/2022 4:25 PM	45:00	4.40 pH	18.15 °C	2,473.3 µS/cm	0.69 mg/L	5.58 NTU	90.0 mV	21.00 ft	200.00 ml/min
2/8/2022 4:30 PM	50:00	4.42 pH	18.21 °C	2,474.2 µS/cm	0.74 mg/L	4.95 NTU	77.0 mV	21.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-33	Grab sample.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:14:57 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-34D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.68 ft Total Depth: 73.68 ft Initial Depth to Water: 25.67 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 68.68 ft Estimated Total Volume Pumped: 42 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 32 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 10:14 AM	00:00	7.21 pH	17.89 °C	2,794.5 µS/cm	2.22 mg/L	14.00 NTU	-11.5 mV	25.77 ft	200.00 ml/min
2/9/2022 10:19 AM	05:00	7.19 pH	18.69 °C	2,765.6 µS/cm	1.43 mg/L	22.00 NTU	-26.7 mV	25.90 ft	200.00 ml/min
2/9/2022 10:24 AM	10:00	7.19 pH	19.27 °C	2,749.1 µS/cm	2.00 mg/L	25.00 NTU	-38.3 mV	25.90 ft	200.00 ml/min
2/9/2022 10:29 AM	15:00	7.20 pH	19.36 °C	2,744.7 µS/cm	2.55 mg/L	33.70 NTU	-40.5 mV	25.90 ft	200.00 ml/min
2/9/2022 10:34 AM	20:00	7.21 pH	19.21 °C	2,753.2 µS/cm	3.00 mg/L	25.90 NTU	-40.9 mV	25.90 ft	200.00 ml/min
2/9/2022 10:39 AM	25:00	7.21 pH	19.22 °C	2,751.2 µS/cm	3.40 mg/L	26.70 NTU	-40.7 mV	25.90 ft	200.00 ml/min
2/9/2022 10:44 AM	30:00	7.22 pH	19.21 °C	2,749.9 µS/cm	3.76 mg/L	26.20 NTU	-39.7 mV	25.90 ft	200.00 ml/min
2/9/2022 10:49 AM	35:00	7.23 pH	19.13 °C	2,757.6 µS/cm	4.18 mg/L	28.20 NTU	-38.8 mV	25.90 ft	200.00 ml/min
2/9/2022 10:54 AM	40:00	7.23 pH	19.06 °C	2,756.1 µS/cm	4.39 mg/L	21.40 NTU	-37.4 mV	25.90 ft	200.00 ml/min
2/9/2022 10:59 AM	45:00	7.23 pH	19.38 °C	2,745.6 µS/cm	4.43 mg/L	23.70 NTU	-36.5 mV	25.90 ft	200.00 ml/min
2/9/2022 11:04 AM	50:00	7.23 pH	19.49 °C	2,739.9 µS/cm	4.48 mg/L	19.90 NTU	-27.0 mV	25.90 ft	200.00 ml/min
2/9/2022 11:09 AM	55:00	7.24 pH	19.36 °C	2,746.7 µS/cm	4.58 mg/L	25.10 NTU	-34.8 mV	25.90 ft	200.00 ml/min
2/9/2022 11:14 AM	01:00:00	7.24 pH	19.26 °C	2,742.1 µS/cm	4.74 mg/L	23.70 NTU	-24.8 mV	25.90 ft	200.00 ml/min

2/9/2022 11:19 AM	01:05:00	7.24 pH	19.40 °C	2,733.5 µS/cm	4.96 mg/L	23.20 NTU	-32.3 mV	25.90 ft	200.00 ml/min
2/9/2022 11:24 AM	01:10:00	7.24 pH	19.31 °C	2,734.9 µS/cm	5.13 mg/L	22.30 NTU	-23.2 mV	25.90 ft	200.00 ml/min
2/9/2022 11:29 AM	01:15:00	7.24 pH	19.18 °C	2,738.7 µS/cm	5.11 mg/L	21.70 NTU	-30.4 mV	25.90 ft	200.00 ml/min
2/9/2022 11:34 AM	01:20:00	7.24 pH	19.31 °C	2,724.7 µS/cm	4.86 mg/L	22.20 NTU	-29.6 mV	25.90 ft	200.00 ml/min
2/9/2022 11:39 AM	01:25:00	7.23 pH	19.14 °C	2,728.7 µS/cm	4.07 mg/L	19.50 NTU	-27.4 mV	25.90 ft	200.00 ml/min
2/9/2022 11:44 AM	01:30:00	7.23 pH	19.28 °C	2,719.8 µS/cm	3.15 mg/L	16.20 NTU	-25.7 mV	25.90 ft	200.00 ml/min
2/9/2022 11:49 AM	01:35:00	7.22 pH	19.31 °C	2,715.1 µS/cm	2.55 mg/L	15.90 NTU	-25.0 mV	25.90 ft	200.00 ml/min
2/9/2022 11:54 AM	01:40:00	7.22 pH	19.00 °C	2,717.5 µS/cm	2.17 mg/L	14.20 NTU	-24.1 mV	25.90 ft	200.00 ml/min
2/9/2022 11:59 AM	01:45:00	7.22 pH	19.26 °C	2,700.2 µS/cm	1.82 mg/L	14.00 NTU	-23.1 mV	25.90 ft	200.00 ml/min
2/9/2022 12:04 PM	01:50:00	7.22 pH	19.41 °C	2,702.4 µS/cm	1.47 mg/L	13.00 NTU	-22.0 mV	25.90 ft	200.00 ml/min
2/9/2022 12:09 PM	01:55:00	7.21 pH	19.22 °C	2,704.5 µS/cm	1.18 mg/L	12.02 NTU	-20.8 mV	25.90 ft	200.00 ml/min
2/9/2022 12:14 PM	02:00:00	7.21 pH	19.20 °C	2,698.2 µS/cm	1.05 mg/L	12.67 NTU	-14.6 mV	25.90 ft	200.00 ml/min
2/9/2022 12:19 PM	02:05:00	7.21 pH	19.42 °C	2,688.6 µS/cm	0.88 mg/L	12.31 NTU	-20.4 mV	25.90 ft	200.00 ml/min
2/9/2022 12:24 PM	02:10:00	7.21 pH	19.43 °C	2,685.8 µS/cm	0.82 mg/L	11.83 NTU	-13.7 mV	25.90 ft	200.00 ml/min
2/9/2022 12:29 PM	02:15:00	7.21 pH	19.53 °C	2,679.8 µS/cm	0.76 mg/L	10.42 NTU	-19.8 mV	25.90 ft	200.00 ml/min
2/9/2022 12:34 PM	02:20:00	7.21 pH	19.71 °C	2,686.8 µS/cm	0.75 mg/L	10.20 NTU	-13.0 mV	25.90 ft	200.00 ml/min
2/9/2022 12:39 PM	02:25:00	7.21 pH	19.63 °C	2,696.5 µS/cm	0.75 mg/L	10.68 NTU	-13.3 mV	25.90 ft	200.00 ml/min
2/9/2022 12:44 PM	02:30:00	7.21 pH	19.54 °C	2,673.0 µS/cm	0.75 mg/L	10.29 NTU	-19.3 mV	25.90 ft	200.00 ml/min
2/9/2022 12:49 PM	02:35:00	7.21 pH	19.66 °C	2,668.8 µS/cm	0.65 mg/L	7.43 NTU	-18.5 mV	25.90 ft	200.00 ml/min
2/9/2022 12:54 PM	02:40:00	7.21 pH	19.85 °C	2,665.8 µS/cm	0.62 mg/L	8.77 NTU	-12.7 mV	25.90 ft	200.00 ml/min
2/9/2022 12:59 PM	02:45:00	7.21 pH	19.71 °C	2,669.1 µS/cm	0.70 mg/L	9.26 NTU	-18.0 mV	25.90 ft	200.00 ml/min
2/9/2022 1:04 PM	02:50:00	7.21 pH	19.88 °C	2,663.4 µS/cm	0.70 mg/L	8.38 NTU	-12.5 mV	25.90 ft	200.00 ml/min
2/9/2022 1:09 PM	02:55:00	7.21 pH	19.97 °C	2,657.1 µS/cm	0.67 mg/L	7.17 NTU	-12.2 mV	25.90 ft	200.00 ml/min
2/9/2022 1:14 PM	03:00:00	7.21 pH	19.87 °C	2,658.2 µS/cm	0.68 mg/L	6.86 NTU	-18.1 mV	25.90 ft	200.00 ml/min
2/9/2022 1:19 PM	03:05:00	7.21 pH	19.87 °C	2,660.6 µS/cm	0.62 mg/L	6.26 NTU	-18.1 mV	25.90 ft	200.00 ml/min
2/9/2022 1:24 PM	03:10:00	7.21 pH	19.94 °C	2,651.3 µS/cm	0.55 mg/L	7.13 NTU	-18.1 mV	25.90 ft	200.00 ml/min
2/9/2022 1:29 PM	03:15:00	7.21 pH	19.92 °C	2,645.8 µS/cm	0.53 mg/L	6.39 NTU	-18.0 mV	25.90 ft	200.00 ml/min
2/9/2022 1:34 PM	03:20:00	7.21 pH	19.98 °C	2,652.2 µS/cm	0.55 mg/L	6.07 NTU	-12.6 mV	25.90 ft	200.00 ml/min
2/9/2022 1:39 PM	03:25:00	7.21 pH	19.95 °C	2,649.0 µS/cm	0.55 mg/L	5.86 NTU	-12.5 mV	25.90 ft	200.00 ml/min

2/9/2022 1:44 PM	03:30:00	7.21 pH	19.93 °C	2,653.2 µS/cm	0.47 mg/L	4.37 NTU	-18.2 mV	25.90 ft	200.00 ml/min
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Samples

Sample ID:	Description:
MW-34D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 12:05:15 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-35 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.52 ft Total Depth: 23.52 ft Initial Depth to Water: 2.66 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 18.52 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.99 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 12:05 PM	00:00	4.89 pH	16.21 °C	2,515.5 µS/cm	1.27 mg/L	4.43 NTU	48.6 mV	3.26 ft	100.00 ml/min
2/8/2022 12:10 PM	05:00	4.87 pH	15.09 °C	2,502.0 µS/cm	0.80 mg/L	4.33 NTU	53.3 mV	3.41 ft	100.00 ml/min
2/8/2022 12:15 PM	10:00	4.87 pH	14.89 °C	2,485.2 µS/cm	0.72 mg/L	3.86 NTU	61.2 mV	3.50 ft	100.00 ml/min
2/8/2022 12:20 PM	15:00	4.86 pH	14.98 °C	2,490.3 µS/cm	0.62 mg/L	3.61 NTU	59.9 mV	3.60 ft	100.00 ml/min
2/8/2022 12:25 PM	20:00	4.86 pH	15.18 °C	2,497.3 µS/cm	0.58 mg/L	3.89 NTU	64.5 mV	3.62 ft	100.00 ml/min
2/8/2022 12:30 PM	25:00	4.86 pH	15.47 °C	2,494.2 µS/cm	0.57 mg/L	3.44 NTU	61.8 mV	3.65 ft	100.00 ml/min
2/8/2022 12:35 PM	30:00	4.86 pH	15.71 °C	2,493.1 µS/cm	0.52 mg/L	2.81 NTU	59.7 mV	3.65 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-35	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 9:46:46 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-37D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.63 ft Total Depth: 76.63 ft Initial Depth to Water: 12.06 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 71.63 ft Estimated Total Volume Pumped: 40 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 36.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 9:46 AM	00:00	7.51 pH	16.42 °C	1,157.8 µS/cm	0.66 mg/L	5.91 NTU	-83.6 mV	15.50 ft	300.00 ml/min
2/8/2022 9:51 AM	05:00	7.52 pH	16.86 °C	1,142.2 µS/cm	0.56 mg/L	3.17 NTU	-87.3 mV	16.88 ft	300.00 ml/min
2/8/2022 9:56 AM	10:00	7.53 pH	16.97 °C	1,150.3 µS/cm	0.58 mg/L	2.69 NTU	-87.7 mV	18.82 ft	300.00 ml/min
2/8/2022 10:01 AM	15:00	7.53 pH	17.09 °C	1,125.6 µS/cm	0.62 mg/L	2.41 NTU	-108.9 mV	20.95 ft	300.00 ml/min
2/8/2022 10:06 AM	20:00	7.52 pH	17.16 °C	1,126.0 µS/cm	0.65 mg/L	2.44 NTU	-109.5 mV	22.35 ft	300.00 ml/min
2/8/2022 10:11 AM	25:00	7.53 pH	17.18 °C	1,140.5 µS/cm	0.62 mg/L	2.05 NTU	-89.8 mV	24.13 ft	300.00 ml/min
2/8/2022 10:16 AM	30:00	7.54 pH	17.20 °C	1,124.3 µS/cm	0.57 mg/L	1.90 NTU	-89.7 mV	25.74 ft	300.00 ml/min
2/8/2022 10:21 AM	35:00	7.54 pH	17.22 °C	1,131.0 µS/cm	0.57 mg/L	1.90 NTU	-111.2 mV	27.59 ft	300.00 ml/min
2/8/2022 10:26 AM	40:00	7.54 pH	17.32 °C	858.92 µS/cm	0.57 mg/L	1.51 NTU	-91.3 mV	28.88 ft	300.00 ml/min
2/8/2022 10:31 AM	45:00	7.54 pH	17.43 °C	1,137.7 µS/cm	0.55 mg/L	1.69 NTU	-92.4 mV	30.77 ft	300.00 ml/min
2/8/2022 10:36 AM	50:00	7.55 pH	17.45 °C	1,139.1 µS/cm	0.59 mg/L	1.68 NTU	-93.2 mV	32.05 ft	300.00 ml/min
2/8/2022 10:41 AM	55:00	7.54 pH	17.49 °C	1,144.4 µS/cm	0.60 mg/L	1.61 NTU	-93.0 mV	33.43 ft	300.00 ml/min
2/8/2022 10:46 AM	01:00:00	7.55 pH	17.49 °C	915.48 µS/cm	0.66 mg/L	1.96 NTU	-94.0 mV	34.71 ft	300.00 ml/min

2/8/2022 10:51 AM	01:05:00	7.56 pH	17.40 °C	1,158.4 µS/cm	0.58 mg/L	1.74 NTU	-94.5 mV	35.62 ft	300.00 ml/min
2/8/2022 10:56 AM	01:10:00	7.56 pH	17.49 °C	1,230.7 µS/cm	0.64 mg/L	1.71 NTU	-95.2 mV	37.33 ft	300.00 ml/min
2/8/2022 10:59 AM	01:12:52	7.56 pH	17.54 °C	1,176.4 µS/cm	0.58 mg/L	1.78 NTU	-92.7 mV	38.25 ft	300.00 ml/min
2/8/2022 11:04 AM	01:17:52	7.56 pH	17.57 °C	1,222.1 µS/cm	0.58 mg/L	1.82 NTU	-95.3 mV	38.82 ft	300.00 ml/min
2/8/2022 11:09 AM	01:22:52	7.57 pH	17.58 °C	1,194.9 µS/cm	0.63 mg/L	1.98 NTU	-95.3 mV	40.05 ft	300.00 ml/min
2/8/2022 11:14 AM	01:27:52	7.57 pH	17.57 °C	1,201.9 µS/cm	0.60 mg/L	2.16 NTU	-94.3 mV	40.92 ft	300.00 ml/min
2/8/2022 11:19 AM	01:32:52	7.57 pH	17.58 °C	1,197.2 µS/cm	0.58 mg/L	2.10 NTU	-95.8 mV	42.23 ft	300.00 ml/min
2/8/2022 11:24 AM	01:37:52	7.57 pH	17.54 °C	1,208.8 µS/cm	0.59 mg/L	2.01 NTU	-95.6 mV	43.13 ft	300.00 ml/min
2/8/2022 11:29 AM	01:42:52	7.58 pH	17.62 °C	1,207.0 µS/cm	0.62 mg/L	1.73 NTU	-96.9 mV	44.12 ft	300.00 ml/min
2/8/2022 11:34 AM	01:47:52	7.58 pH	17.66 °C	1,214.0 µS/cm	0.62 mg/L	2.05 NTU	-97.3 mV	45.05 ft	300.00 ml/min
2/8/2022 11:39 AM	01:52:52	7.58 pH	17.69 °C	1,216.3 µS/cm	0.58 mg/L	1.77 NTU	-99.3 mV	46.03 ft	300.00 ml/min
2/8/2022 11:44 AM	01:57:52	7.58 pH	17.72 °C	1,216.7 µS/cm	0.61 mg/L	1.98 NTU	-100.0 mV	46.88 ft	300.00 ml/min
2/8/2022 11:49 AM	02:02:52	7.59 pH	17.72 °C	1,205.9 µS/cm	0.58 mg/L	1.86 NTU	-102.1 mV	47.86 ft	300.00 ml/min
2/8/2022 11:54 AM	02:07:52	7.59 pH	17.54 °C	1,214.6 µS/cm	0.77 mg/L	1.77 NTU	-101.1 mV	48.28 ft	100.00 ml/min
2/8/2022 11:59 AM	02:12:52	7.61 pH	17.45 °C	1,196.8 µS/cm	0.76 mg/L	1.71 NTU	-106.9 mV	48.19 ft	100.00 ml/min
2/8/2022 12:04 PM	02:17:52	7.62 pH	17.43 °C	1,211.3 µS/cm	0.78 mg/L	1.38 NTU	-112.6 mV	48.21 ft	100.00 ml/min
2/8/2022 12:09 PM	02:22:52	7.63 pH	17.53 °C	1,227.4 µS/cm	0.78 mg/L	1.24 NTU	-116.6 mV	48.21 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-27D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/8/2022 1:34:39 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.9 ft Total Depth: 28.9 ft Initial Depth to Water: 2.86 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 23.90 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.69 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 1:34 PM	00:00	6.49 pH	17.10 °C	2,716.5 µS/cm	0.86 mg/L	36.10 NTU	14.0 mV	2.86 ft	200.00 ml/min
2/8/2022 1:39 PM	05:00	6.57 pH	15.97 °C	2,695.3 µS/cm	0.32 mg/L	39.50 NTU	0.2 mV	3.45 ft	200.00 ml/min
2/8/2022 1:44 PM	10:00	6.59 pH	16.02 °C	2,707.7 µS/cm	0.25 mg/L	32.00 NTU	-4.5 mV	3.49 ft	200.00 ml/min
2/8/2022 1:49 PM	15:00	6.59 pH	16.10 °C	2,706.8 µS/cm	0.22 mg/L	24.20 NTU	-6.6 mV	3.55 ft	200.00 ml/min
2/8/2022 1:54 PM	20:00	6.59 pH	16.32 °C	2,711.1 µS/cm	0.20 mg/L	12.20 NTU	-6.3 mV	3.55 ft	200.00 ml/min
2/8/2022 1:59 PM	25:00	6.57 pH	16.39 °C	2,707.0 µS/cm	0.18 mg/L	7.79 NTU	-6.8 mV	3.55 ft	200.00 ml/min
2/8/2022 2:04 PM	30:00	6.57 pH	16.46 °C	2,704.6 µS/cm	0.17 mg/L	3.51 NTU	-8.1 mV	3.55 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-51	Grab sample.

August 2022

Low-Flow Test Report:

Test Date / Time: 8/2/2022 9:00:28 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.49 ft Total Depth: 32.29 ft Initial Depth to Water: 18.63 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.49 ft Estimated Total Volume Pumped: 8.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.46 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 80 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/2/2022 9:00 AM	00:00	7.03 pH	20.95 °C	637.61 µS/cm	4.24 mg/L	1.20 NTU	-36.3 mV	18.63 ft	200.00 ml/min
8/2/2022 9:05 AM	05:00	7.03 pH	18.97 °C	652.98 µS/cm	1.65 mg/L	1.11 NTU	-52.7 mV	19.00 ft	200.00 ml/min
8/2/2022 9:09 AM	08:34	7.03 pH	18.58 °C	663.62 µS/cm	0.78 mg/L	1.06 NTU	-62.5 mV	19.03 ft	200.00 ml/min
8/2/2022 9:14 AM	13:34	7.03 pH	18.50 °C	671.01 µS/cm	0.27 mg/L	0.92 NTU	-71.9 mV	19.05 ft	200.00 ml/min
8/2/2022 9:19 AM	18:34	7.03 pH	18.50 °C	673.17 µS/cm	0.18 mg/L	0.83 NTU	-76.3 mV	19.06 ft	200.00 ml/min
8/2/2022 9:24 AM	23:34	7.03 pH	18.50 °C	675.48 µS/cm	0.16 mg/L	0.70 NTU	-78.1 mV	19.06 ft	200.00 ml/min
8/2/2022 9:29 AM	28:34	7.03 pH	18.55 °C	675.72 µS/cm	0.14 mg/L	0.65 NTU	-78.4 mV	19.06 ft	200.00 ml/min
8/2/2022 9:34 AM	33:34	7.03 pH	18.58 °C	675.56 µS/cm	0.14 mg/L	0.51 NTU	-76.1 mV	19.07 ft	200.00 ml/min
8/2/2022 9:39 AM	38:34	7.03 pH	18.65 °C	677.86 µS/cm	0.14 mg/L	0.40 NTU	-75.1 mV	19.09 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-1	Grab.

Low-Flow Test Report:

Test Date / Time: 8/2/2022 11:54:00 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 28.37 ft Initial Depth to Water: 10.58 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80-90 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/2/2022 11:54 AM	00:00	4.67 pH	20.80 °C	253.71 µS/cm	0.83 mg/L	53.70 NTU	127.8 mV	10.65 ft	200.00 ml/min
8/2/2022 11:59 AM	05:00	4.62 pH	20.40 °C	261.39 µS/cm	0.39 mg/L	13.00 NTU	132.9 mV	10.65 ft	200.00 ml/min
8/2/2022 12:04 PM	10:00	4.59 pH	20.33 °C	262.13 µS/cm	0.22 mg/L	11.90 NTU	161.7 mV	10.67 ft	200.00 ml/min
8/2/2022 12:09 PM	15:00	4.59 pH	20.31 °C	263.18 µS/cm	0.17 mg/L	9.01 NTU	133.8 mV	10.67 ft	200.00 ml/min
8/2/2022 12:14 PM	20:00	4.58 pH	20.30 °C	262.89 µS/cm	0.14 mg/L	6.98 NTU	162.5 mV	10.65 ft	200.00 ml/min
8/2/2022 12:19 PM	25:00	4.57 pH	20.24 °C	262.79 µS/cm	0.13 mg/L	4.20 NTU	164.8 mV	10.67 ft	200.00 ml/min
8/2/2022 12:24 PM	30:00	4.57 pH	20.30 °C	262.99 µS/cm	0.12 mg/L	3.10 NTU	165.6 mV	10.68 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-2	Grab.

Low-Flow Test Report:

Test Date / Time: 8/2/2022 1:33:03 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.51 ft Total Depth: 45.32 ft Initial Depth to Water: 10.33 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 39.51 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80-90 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/2/2022 1:33 PM	00:00	6.87 pH	21.37 °C	449.26 µS/cm	0.69 mg/L	12.50 NTU	20.7 mV	10.33 ft	200.00 ml/min
8/2/2022 1:38 PM	05:00	6.99 pH	20.39 °C	459.07 µS/cm	0.40 mg/L	27.20 NTU	-18.6 mV	10.33 ft	200.00 ml/min
8/2/2022 1:43 PM	10:00	7.02 pH	20.13 °C	457.06 µS/cm	0.21 mg/L	68.90 NTU	-32.4 mV	10.33 ft	200.00 ml/min
8/2/2022 1:48 PM	15:00	7.03 pH	20.13 °C	455.59 µS/cm	0.11 mg/L	16.30 NTU	-42.4 mV	10.33 ft	200.00 ml/min
8/2/2022 1:53 PM	20:00	7.02 pH	20.05 °C	455.72 µS/cm	0.09 mg/L	8.89 NTU	-31.8 mV	10.33 ft	200.00 ml/min
8/2/2022 1:58 PM	25:00	7.02 pH	19.99 °C	454.96 µS/cm	0.08 mg/L	5.40 NTU	-51.4 mV	10.33 ft	200.00 ml/min
8/2/2022 2:03 PM	30:00	7.02 pH	19.97 °C	453.40 µS/cm	0.08 mg/L	2.86 NTU	-54.1 mV	10.33 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-3	Grab.

Low-Flow Test Report:

Test Date / Time: 8/2/2022 8:58:46 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.75 ft Initial Depth to Water: 18.46 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 56.25 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80-90 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/2/2022 8:58 AM	00:00	7.21 pH	18.79 °C	501.75 µS/cm	0.90 mg/L	3.87 NTU	6.6 mV	20.08 ft	200.00 ml/min
8/2/2022 9:03 AM	05:00	7.17 pH	18.45 °C	503.84 µS/cm	0.83 mg/L	2.32 NTU	-7.5 mV	20.58 ft	200.00 ml/min
8/2/2022 9:08 AM	10:00	7.15 pH	18.35 °C	501.27 µS/cm	0.66 mg/L	1.14 NTU	-22.5 mV	21.06 ft	200.00 ml/min
8/2/2022 9:13 AM	15:00	7.15 pH	18.35 °C	499.69 µS/cm	0.48 mg/L	0.98 NTU	-21.7 mV	21.34 ft	200.00 ml/min
8/2/2022 9:18 AM	20:00	7.14 pH	18.35 °C	498.70 µS/cm	0.39 mg/L	0.88 NTU	-31.6 mV	21.47 ft	200.00 ml/min
8/2/2022 9:23 AM	25:00	7.15 pH	18.39 °C	496.27 µS/cm	0.32 mg/L	0.64 NTU	-39.6 mV	21.60 ft	200.00 ml/min
8/2/2022 9:28 AM	30:00	7.15 pH	18.41 °C	493.24 µS/cm	0.28 mg/L	0.71 NTU	-60.8 mV	21.68 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-43D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/2/2022 9:23:04 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.5 ft Total Depth: 111.42 ft Initial Depth to Water: 17.96 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 108.5 ft Estimated Total Volume Pumped: 17 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 80 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/2/2022 9:23 AM	00:00	7.86 pH	19.86 °C	651.13 µS/cm	0.97 mg/L	11.77 NTU	49.4 mV	18.90 ft	200.00 ml/min
8/2/2022 9:28 AM	05:00	7.89 pH	19.36 °C	636.97 µS/cm	0.44 mg/L	8.91 NTU	35.2 mV	19.21 ft	200.00 ml/min
8/2/2022 9:33 AM	10:00	7.90 pH	19.24 °C	616.45 µS/cm	0.31 mg/L	4.71 NTU	30.1 mV	20.10 ft	200.00 ml/min
8/2/2022 9:38 AM	15:00	7.91 pH	19.19 °C	610.73 µS/cm	0.25 mg/L	6.74 NTU	22.9 mV	20.30 ft	200.00 ml/min
8/2/2022 9:43 AM	20:00	7.90 pH	19.24 °C	603.41 µS/cm	0.21 mg/L	6.71 NTU	14.6 mV	20.70 ft	200.00 ml/min
8/2/2022 9:48 AM	25:00	7.91 pH	19.17 °C	597.68 µS/cm	0.19 mg/L	5.76 NTU	7.4 mV	20.95 ft	200.00 ml/min
8/2/2022 9:53 AM	30:00	7.91 pH	19.19 °C	593.78 µS/cm	0.17 mg/L	9.05 NTU	-2.2 mV	21.20 ft	200.00 ml/min
8/2/2022 9:58 AM	35:00	7.91 pH	19.24 °C	590.84 µS/cm	0.15 mg/L	6.55 NTU	-11.3 mV	21.35 ft	200.00 ml/min
8/2/2022 10:03 AM	40:00	7.91 pH	19.28 °C	589.33 µS/cm	0.14 mg/L	6.24 NTU	-18.8 mV	21.60 ft	200.00 ml/min
8/2/2022 10:08 AM	45:00	7.91 pH	19.24 °C	585.61 µS/cm	0.13 mg/L	5.53 NTU	-30.2 mV	21.75 ft	200.00 ml/min
8/2/2022 10:13 AM	50:00	7.91 pH	19.27 °C	584.58 µS/cm	0.12 mg/L	5.10 NTU	-39.4 mV	21.90 ft	200.00 ml/min
8/2/2022 10:18 AM	55:00	7.91 pH	19.24 °C	584.97 µS/cm	0.11 mg/L	5.24 NTU	-45.3 mV	22.05 ft	200.00 ml/min
8/2/2022 10:23 AM	01:00:00	7.91 pH	19.19 °C	581.00 µS/cm	0.10 mg/L	2.61 NTU	-57.3 mV	22.10 ft	200.00 ml/min

8/2/2022 10:28 AM	01:05:00	7.91 pH	19.24 °C	581.38 µS/cm	0.09 mg/L	4.98 NTU	-61.5 mV	22.25 ft	200.00 ml/min
8/2/2022 10:33 AM	01:10:00	7.91 pH	19.24 °C	577.68 µS/cm	0.08 mg/L	9.68 NTU	-75.0 mV	22.35 ft	200.00 ml/min
8/2/2022 10:38 AM	01:15:00	7.90 pH	19.23 °C	575.44 µS/cm	0.07 mg/L	2.99 NTU	-75.7 mV	22.36 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-44D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/2/2022 3:05:52 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.76 ft Total Depth: 24.75 ft Initial Depth to Water: 8.73 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 20.76 ft Estimated Total Volume Pumped: 7.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Sunny, 80-90 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/2/2022 3:05 PM	00:00	5.01 pH	23.99 °C	72.07 µS/cm	2.00 mg/L	2.25 NTU	171.6 mV	8.91 ft	200.00 ml/min
8/2/2022 3:10 PM	05:00	4.93 pH	23.16 °C	72.16 µS/cm	1.86 mg/L	2.43 NTU	162.5 mV	8.91 ft	200.00 ml/min
8/2/2022 3:15 PM	10:00	4.91 pH	23.03 °C	73.67 µS/cm	1.76 mg/L	3.10 NTU	157.0 mV	8.91 ft	200.00 ml/min
8/2/2022 3:20 PM	15:00	4.89 pH	22.98 °C	75.68 µS/cm	1.65 mg/L	3.20 NTU	152.5 mV	8.91 ft	200.00 ml/min
8/2/2022 3:25 PM	20:00	4.86 pH	22.89 °C	76.13 µS/cm	1.51 mg/L	2.67 NTU	198.1 mV	8.91 ft	200.00 ml/min
8/2/2022 3:30 PM	25:00	4.87 pH	22.79 °C	76.88 µS/cm	1.46 mg/L	2.21 NTU	198.6 mV	8.91 ft	200.00 ml/min
8/2/2022 3:34 PM	29:04	4.86 pH	22.76 °C	78.10 µS/cm	1.46 mg/L	2.06 NTU	157.9 mV	8.91 ft	200.00 ml/min
8/2/2022 3:39 PM	34:04	4.86 pH	22.75 °C	79.25 µS/cm	1.42 mg/L	1.82 NTU	146.7 mV	8.91 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-4	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 8:37:34

AM Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: HGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.72 ft Total Depth: 27.50 ft Initial Depth to Water: 7.04 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 23.72 ft Estimated Total Volume Pumped: 12.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

75 degrees F, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 8:37 AM	00:00	5.84 pH	19.79 °C	154.46 µS/cm	0.77 mg/L	44.90 NTU	98.4 mV	7.73 ft	200.00 ml/min
8/10/2022 8:42 AM	05:00	5.91 pH	19.68 °C	171.63 µS/cm	0.66 mg/L	32.10 NTU	78.6 mV	7.85 ft	200.00 ml/min
8/10/2022 8:47 AM	10:00	5.98 pH	19.59 °C	181.18 µS/cm	0.64 mg/L	22.30 NTU	70.4 mV	7.90 ft	200.00 ml/min
8/10/2022 8:52 AM	15:00	6.02 pH	19.63 °C	190.43 µS/cm	0.55 mg/L	18.30 NTU	60.5 mV	7.99 ft	200.00 ml/min
8/10/2022 8:57 AM	20:00	6.04 pH	19.64 °C	191.77 µS/cm	0.53 mg/L	15.40 NTU	59.1 mV	8.05 ft	200.00 ml/min
8/10/2022 9:02 AM	25:00	6.05 pH	19.64 °C	193.90 µS/cm	0.53 mg/L	12.60 NTU	57.8 mV	8.09 ft	200.00 ml/min
8/10/2022 9:07 AM	30:00	6.05 pH	19.59 °C	192.75 µS/cm	0.57 mg/L	10.63 NTU	60.7 mV	8.16 ft	200.00 ml/min
8/10/2022 9:12 AM	35:00	6.06 pH	19.69 °C	195.17 µS/cm	0.44 mg/L	10.03 NTU	59.7 mV	8.19 ft	200.00 ml/min
8/10/2022 9:17 AM	40:00	6.11 pH	20.01 °C	207.85 µS/cm	0.40 mg/L	7.52 NTU	48.4 mV	8.13 ft	100.00 ml/min
8/10/2022 9:22 AM	45:00	6.12 pH	20.18 °C	205.19 µS/cm	0.45 mg/L	8.14 NTU	50.0 mV	8.13 ft	100.00 ml/min
8/10/2022 9:27 AM	50:00	6.13 pH	20.22 °C	202.82 µS/cm	0.51 mg/L	7.53 NTU	62.0 mV	8.13 ft	100.00 ml/min
8/10/2022 9:32 AM	55:00	6.14 pH	20.21 °C	203.64 µS/cm	0.49 mg/L	7.34 NTU	61.9 mV	8.13 ft	100.00 ml/min

8/10/2022 9:37 AM	01:00:00	6.19 pH	20.30 °C	213.57 µS/cm	0.56 mg/L	5.99 NTU	53.3 mV	8.13 ft	100.00 ml/min
8/10/2022 9:42 AM	01:05:00	6.18 pH	20.24 °C	209.11 µS/cm	0.47 mg/L	5.33 NTU	44.5 mV	8.13 ft	100.00 ml/min
8/10/2022 9:47 AM	01:10:00	6.21 pH	20.21 °C	214.84 µS/cm	0.46 mg/L	5.09 NTU	52.5 mV	8.13 ft	100.00 ml/min
8/10/2022 9:52 AM	01:15:00	6.22 pH	20.32 °C	213.19 µS/cm	0.47 mg/L	4.58 NTU	53.1 mV	8.13 ft	100.00 ml/min

Samples

Sample ID:	Description:
HGWA-5	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 8:30:39 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.66 ft Total Depth: 50.41 ft Initial Depth to Water: 7.90 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 44.66 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.15 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 75 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 8:30 AM	00:00	7.57 pH	19.63 °C	351.87 µS/cm	1.52 mg/L	11.20 NTU	-52.6 mV	8.25 ft	200.00 ml/min
8/10/2022 8:35 AM	05:00	7.54 pH	18.82 °C	363.99 µS/cm	1.32 mg/L	6.79 NTU	-88.5 mV	8.40 ft	200.00 ml/min
8/10/2022 8:40 AM	10:00	7.54 pH	18.70 °C	363.99 µS/cm	0.98 mg/L	2.81 NTU	-86.6 mV	8.75 ft	200.00 ml/min
8/10/2022 8:45 AM	15:00	7.54 pH	18.64 °C	363.84 µS/cm	0.71 mg/L	1.93 NTU	-86.3 mV	8.90 ft	200.00 ml/min
8/10/2022 8:50 AM	20:00	7.54 pH	18.62 °C	364.19 µS/cm	0.47 mg/L	2.05 NTU	-88.6 mV	8.95 ft	200.00 ml/min
8/10/2022 8:55 AM	25:00	7.54 pH	18.63 °C	363.37 µS/cm	0.33 mg/L	1.69 NTU	-63.4 mV	8.95 ft	200.00 ml/min
8/10/2022 9:00 AM	30:00	7.54 pH	18.61 °C	363.44 µS/cm	0.26 mg/L	1.51 NTU	-91.2 mV	9.00 ft	200.00 ml/min
8/10/2022 9:05 AM	35:00	7.53 pH	18.61 °C	363.55 µS/cm	0.22 mg/L	1.48 NTU	-92.2 mV	9.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-6	Grab.

Low-Flow Test Report:

Test Date / Time: 8/9/2022 4:35:12 PM

Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: HGWA-42D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.03 ft Total Depth: 67.56 ft Initial Depth to Water: 12.21 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 63 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

80 degrees F, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2022 4:35 PM	00:00	7.63 pH	20.74 °C	309.59 µS/cm	0.32 mg/L	6.82 NTU	-116.9 mV	14.15 ft	200.00 ml/min
8/9/2022 4:40 PM	05:00	7.60 pH	20.60 °C	308.26 µS/cm	0.22 mg/L	2.23 NTU	-113.9 mV	14.49 ft	200.00 ml/min
8/9/2022 4:45 PM	10:00	7.58 pH	20.66 °C	308.45 µS/cm	0.17 mg/L	1.63 NTU	-111.3 mV	14.64 ft	200.00 ml/min
8/9/2022 4:50 PM	15:00	7.57 pH	20.56 °C	308.68 µS/cm	0.16 mg/L	1.24 NTU	-111.0 mV	14.69 ft	200.00 ml/min
8/9/2022 4:55 PM	20:00	7.58 pH	20.39 °C	310.46 µS/cm	0.11 mg/L	0.79 NTU	-112.9 mV	14.71 ft	200.00 ml/min
8/9/2022 5:00 PM	25:00	7.58 pH	20.44 °C	310.63 µS/cm	0.12 mg/L	0.70 NTU	-87.8 mV	14.71 ft	200.00 ml/min
8/9/2022 5:05 PM	30:00	7.58 pH	20.48 °C	310.61 µS/cm	0.11 mg/L	0.68 NTU	-117.1 mV	14.71 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-42D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2022 1:17:43 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.98 ft Total Depth: 43.14 ft Initial Depth to Water: 30.02 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 37.98 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Sunny, 80 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 1:17 PM	00:00	4.89 pH	23.02 °C	2,338.4 µS/cm	0.62 mg/L	14.70 NTU	244.6 mV	30.10 ft	200.00 ml/min
8/11/2022 1:22 PM	05:00	4.87 pH	22.62 °C	2,337.0 µS/cm	0.48 mg/L	12.00 NTU	234.8 mV	30.10 ft	200.00 ml/min
8/11/2022 1:27 PM	10:00	4.87 pH	22.36 °C	2,323.8 µS/cm	0.38 mg/L	10.70 NTU	287.4 mV	30.10 ft	200.00 ml/min
8/11/2022 1:32 PM	15:00	4.88 pH	22.36 °C	2,319.2 µS/cm	0.30 mg/L	7.20 NTU	281.0 mV	30.10 ft	200.00 ml/min
8/11/2022 1:37 PM	20:00	4.89 pH	22.47 °C	2,318.7 µS/cm	0.22 mg/L	6.77 NTU	275.4 mV	30.10 ft	200.00 ml/min
8/11/2022 1:42 PM	25:00	4.92 pH	21.94 °C	2,319.6 µS/cm	0.19 mg/L	3.97 NTU	266.4 mV	30.10 ft	200.00 ml/min
8/11/2022 1:47 PM	30:00	4.93 pH	22.18 °C	2,319.9 µS/cm	0.17 mg/L	3.82 NTU	259.2 mV	30.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-14	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2022 12:30:06 PM

Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: HGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.96 ft Total Depth: 38.27 ft Initial Depth to Water: 16.94 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 32.96 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.81 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

80 degrees F, sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 12:30 PM	00:00	6.43 pH	21.67 °C	1,259.9 µS/cm	0.21 mg/L	0.71 NTU	144.9 mV	17.75 ft	200.00 ml/min
8/11/2022 12:35 PM	05:00	6.39 pH	21.46 °C	1,252.3 µS/cm	0.18 mg/L	1.70 NTU	152.3 mV	17.75 ft	200.00 ml/min
8/11/2022 12:40 PM	10:00	6.36 pH	21.57 °C	1,235.8 µS/cm	0.17 mg/L	0.61 NTU	155.4 mV	17.75 ft	200.00 ml/min
8/11/2022 12:45 PM	15:00	6.33 pH	21.36 °C	1,237.7 µS/cm	0.17 mg/L	0.38 NTU	141.2 mV	17.75 ft	200.00 ml/min
8/11/2022 12:50 PM	20:00	6.32 pH	21.19 °C	1,242.0 µS/cm	0.14 mg/L	1.25 NTU	156.0 mV	17.75 ft	200.00 ml/min
8/11/2022 12:55 PM	25:00	6.29 pH	21.31 °C	1,226.4 µS/cm	0.16 mg/L	0.94 NTU	142.3 mV	17.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-15	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 3:26:07 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

Location Name: HGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.06 ft Total Depth: 33.44 ft Initial Depth to Water: 13.19 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 28.06 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.98 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 3:26 PM	00:00	7.09 pH	22.99 °C	1,151.9 µS/cm	0.23 mg/L	9.19 NTU	-67.0 mV	13.88 ft	200.00 ml/min
8/10/2022 3:31 PM	05:00	7.09 pH	21.79 °C	1,179.8 µS/cm	0.20 mg/L	8.95 NTU	-79.8 mV	13.95 ft	200.00 ml/min
8/10/2022 3:36 PM	10:00	7.09 pH	21.55 °C	1,156.8 µS/cm	0.17 mg/L	1.77 NTU	-68.1 mV	14.05 ft	200.00 ml/min
8/10/2022 3:41 PM	15:00	7.11 pH	21.60 °C	1,147.7 µS/cm	0.14 mg/L	0.62 NTU	-83.9 mV	14.07 ft	200.00 ml/min
8/10/2022 3:46 PM	20:00	7.11 pH	21.35 °C	1,138.5 µS/cm	0.13 mg/L	1.74 NTU	-86.3 mV	14.11 ft	200.00 ml/min
8/10/2022 3:51 PM	25:00	7.10 pH	21.15 °C	1,141.8 µS/cm	0.11 mg/L	0.56 NTU	-85.1 mV	14.13 ft	200.00 ml/min
8/10/2022 3:56 PM	30:00	7.09 pH	21.14 °C	1,152.4 µS/cm	0.08 mg/L	0.77 NTU	-83.9 mV	14.17 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-16	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 1:15:55 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

Location Name: HGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.79 ft Total Depth: 27.83 ft Initial Depth to Water: 19.03 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.79 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Raining, 80 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 1:15 PM	00:00	6.41 pH	21.80 °C	1,594.9 µS/cm	2.77 mg/L	18.70 NTU	306.3 mV	19.30 ft	200.00 ml/min
8/10/2022 1:20 PM	05:00	6.32 pH	20.79 °C	1,702.0 µS/cm	0.45 mg/L	73.70 NTU	133.9 mV	19.30 ft	200.00 ml/min
8/10/2022 1:25 PM	10:00	6.30 pH	20.75 °C	1,704.4 µS/cm	0.27 mg/L	53.10 NTU	154.6 mV	19.31 ft	200.00 ml/min
8/10/2022 1:30 PM	15:00	6.29 pH	20.70 °C	1,733.0 µS/cm	0.22 mg/L	32.20 NTU	147.7 mV	19.31 ft	200.00 ml/min
8/10/2022 1:35 PM	20:00	6.29 pH	20.58 °C	1,744.3 µS/cm	0.20 mg/L	19.60 NTU	143.7 mV	19.31 ft	200.00 ml/min
8/10/2022 1:40 PM	25:00	6.29 pH	20.67 °C	1,755.7 µS/cm	0.19 mg/L	13.30 NTU	141.4 mV	19.31 ft	200.00 ml/min
8/10/2022 1:45 PM	30:00	6.29 pH	20.73 °C	1,804.1 µS/cm	0.18 mg/L	10.23 NTU	107.7 mV	19.31 ft	200.00 ml/min
8/10/2022 1:50 PM	35:00	6.29 pH	20.71 °C	1,761.0 µS/cm	0.18 mg/L	6.90 NTU	137.3 mV	19.31 ft	200.00 ml/min
8/10/2022 1:55 PM	40:00	6.29 pH	20.77 °C	1,761.0 µS/cm	0.18 mg/L	4.90 NTU	137.3 mV	19.31 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-17	Grab.

Dup-2	Grab.
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Low-Flow Test Report:

Test Date / Time: 8/10/2022 11:27:20 AM

Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: HGWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.71 ft Total Depth: 27.62 ft Initial Depth to Water: 18.99 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 22.71 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.35 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

80 degrees F, cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 11:27 AM	00:00	4.39 pH	21.85 °C	2,110.1 µS/cm	1.35 mg/L	3.47 NTU	316.5 mV	19.29 ft	200.00 ml/min
8/10/2022 11:32 AM	05:00	4.40 pH	21.73 °C	2,101.4 µS/cm	1.06 mg/L	2.01 NTU	382.4 mV	19.32 ft	200.00 ml/min
8/10/2022 11:37 AM	10:00	4.41 pH	21.67 °C	2,100.5 µS/cm	0.84 mg/L	1.79 NTU	310.3 mV	19.33 ft	200.00 ml/min
8/10/2022 11:42 AM	15:00	4.43 pH	21.56 °C	2,096.2 µS/cm	0.74 mg/L	1.87 NTU	368.0 mV	19.34 ft	200.00 ml/min
8/10/2022 11:47 AM	20:00	4.42 pH	21.46 °C	2,106.1 µS/cm	0.72 mg/L	1.48 NTU	305.2 mV	19.34 ft	200.00 ml/min
8/10/2022 11:52 AM	25:00	4.41 pH	21.32 °C	2,103.4 µS/cm	0.73 mg/L	1.41 NTU	364.1 mV	19.34 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-18	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2022 8:44:59 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

Location Name: MW-21D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.88 ft Total Depth: 51.63 ft Initial Depth to Water: 18.40 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 46.88 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.24 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883546
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 72 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 8:44 AM	00:00	6.85 pH	19.66 °C	2,349.4 µS/cm	0.52 mg/L	15.40 NTU	-98.6 mV	18.66 ft	200.00 ml/min
8/11/2022 8:49 AM	05:00	6.91 pH	19.59 °C	2,352.6 µS/cm	0.37 mg/L	12.60 NTU	-102.0 mV	18.66 ft	200.00 ml/min
8/11/2022 8:54 AM	10:00	6.93 pH	19.61 °C	2,351.0 µS/cm	0.27 mg/L	14.00 NTU	-114.1 mV	18.66 ft	200.00 ml/min
8/11/2022 8:59 AM	15:00	6.94 pH	19.59 °C	2,348.7 µS/cm	0.23 mg/L	14.80 NTU	-114.7 mV	18.64 ft	200.00 ml/min
8/11/2022 9:04 AM	20:00	6.95 pH	19.57 °C	2,347.3 µS/cm	0.19 mg/L	11.40 NTU	-115.3 mV	18.64 ft	200.00 ml/min
8/11/2022 9:09 AM	25:00	6.96 pH	19.64 °C	2,341.1 µS/cm	0.18 mg/L	9.94 NTU	-115.0 mV	18.64 ft	200.00 ml/min
8/11/2022 9:14 AM	30:00	6.96 pH	19.75 °C	2,339.1 µS/cm	0.17 mg/L	8.57 NTU	-114.7 mV	18.64 ft	200.00 ml/min
8/11/2022 9:19 AM	35:00	6.96 pH	19.83 °C	2,332.8 µS/cm	0.17 mg/L	6.68 NTU	-114.2 mV	18.64 ft	200.00 ml/min
8/11/2022 9:24 AM	40:00	6.96 pH	19.92 °C	2,326.9 µS/cm	0.17 mg/L	5.44 NTU	-113.3 mV	18.64 ft	200.00 ml/min
8/11/2022 9:29 AM	45:00	6.96 pH	19.83 °C	2,327.3 µS/cm	0.17 mg/L	4.81 NTU	-112.5 mV	18.64 ft	200.00 ml/min

Samples

Sample ID:	Description:
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MW-21D	Grab.
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Low-Flow Test Report:

Test Date / Time: 8/11/2022 8:38:50 AM

Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: MW-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.47 ft Total Depth: 38.95 ft Initial Depth to Water: 13.85 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 32.5 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 11.27 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

75 degrees F, Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 8:38 AM	00:00	5.29 pH	18.97 °C	1,273.4 µS/cm	1.18 mg/L	3.67 NTU	299.8 mV	16.32 ft	200.00 ml/min
8/11/2022 8:43 AM	05:00	5.27 pH	18.75 °C	1,292.9 µS/cm	0.60 mg/L	1.25 NTU	453.1 mV	17.16 ft	200.00 ml/min
8/11/2022 8:48 AM	10:00	5.26 pH	18.79 °C	1,292.3 µS/cm	0.39 mg/L	1.10 NTU	486.5 mV	18.29 ft	200.00 ml/min
8/11/2022 8:53 AM	15:00	5.26 pH	18.74 °C	1,281.6 µS/cm	0.33 mg/L	0.98 NTU	389.4 mV	19.02 ft	200.00 ml/min
8/11/2022 8:58 AM	20:00	5.26 pH	18.84 °C	1,293.4 µS/cm	0.30 mg/L	0.68 NTU	505.6 mV	20.42 ft	200.00 ml/min
8/11/2022 9:03 AM	25:00	5.26 pH	18.75 °C	1,280.7 µS/cm	0.29 mg/L	0.59 NTU	394.6 mV	21.30 ft	200.00 ml/min
8/11/2022 9:08 AM	30:00	5.25 pH	18.78 °C	1,290.1 µS/cm	0.28 mg/L	0.87 NTU	515.5 mV	22.09 ft	200.00 ml/min
8/11/2022 9:13 AM	35:00	5.26 pH	18.90 °C	1,280.3 µS/cm	0.28 mg/L	0.60 NTU	402.5 mV	22.85 ft	200.00 ml/min
8/11/2022 9:18 AM	40:00	5.26 pH	18.97 °C	1,290.2 µS/cm	0.29 mg/L	0.70 NTU	522.9 mV	23.58 ft	200.00 ml/min
8/11/2022 9:23 AM	45:00	5.26 pH	18.92 °C	1,280.9 µS/cm	0.30 mg/L	0.81 NTU	408.7 mV	24.29 ft	200.00 ml/min
8/11/2022 9:28 AM	50:00	5.27 pH	18.92 °C	1,280.6 µS/cm	0.31 mg/L	0.87 NTU	405.0 mV	24.98 ft	200.00 ml/min
8/11/2022 9:33 AM	55:00	5.27 pH	19.59 °C	1,281.5 µS/cm	0.34 mg/L	1.07 NTU	388.5 mV	24.96 ft	100.00 ml/min

8/11/2022 9:38 AM	01:00:00	5.29 pH	19.47 °C	1,289.9 µS/cm	0.34 mg/L	0.77 NTU	487.4 mV	25.05 ft	100.00 ml/min
8/11/2022 9:43 AM	01:05:00	5.30 pH	19.50 °C	1,282.5 µS/cm	0.33 mg/L	1.19 NTU	368.9 mV	25.12 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-22	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2022 11:17:10 AM

Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: MW-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.24 ft Total Depth: 62.79 ft Initial Depth to Water: 16.35 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 57.24 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

75 degrees F, Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 11:17 AM	00:00	6.63 pH	21.63 °C	1,589.5 µS/cm	6.32 mg/L	3.97 NTU	0.1 mV	16.49 ft	200.00 ml/min
8/11/2022 11:22 AM	05:00	6.62 pH	21.06 °C	1,605.0 µS/cm	0.29 mg/L	0.72 NTU	-5.1 mV	16.50 ft	200.00 ml/min
8/11/2022 11:27 AM	10:00	6.60 pH	21.03 °C	1,606.0 µS/cm	0.26 mg/L	1.01 NTU	28.8 mV	16.51 ft	200.00 ml/min
8/11/2022 11:32 AM	15:00	6.58 pH	21.02 °C	1,612.0 µS/cm	0.20 mg/L	0.58 NTU	13.3 mV	16.51 ft	200.00 ml/min
8/11/2022 11:37 AM	20:00	6.58 pH	20.99 °C	1,605.1 µS/cm	0.18 mg/L	1.03 NTU	19.1 mV	16.51 ft	200.00 ml/min
8/11/2022 11:42 AM	25:00	6.57 pH	21.03 °C	1,611.9 µS/cm	0.17 mg/L	0.67 NTU	26.3 mV	16.51 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-23D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 3:30:59 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.72 ft Total Depth: 38.30 ft Initial Depth to Water: 27.15 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 32.72 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 78 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 3:30 PM	00:00	4.25 pH	20.32 °C	2,351.9 µS/cm	1.39 mg/L	4.49 NTU	336.0 mV	27.15 ft	200.00 ml/min
8/10/2022 3:35 PM	05:00	4.29 pH	20.31 °C	2,326.4 µS/cm	1.01 mg/L	4.30 NTU	349.0 mV	27.15 ft	200.00 ml/min
8/10/2022 3:40 PM	10:00	4.32 pH	20.31 °C	2,324.5 µS/cm	0.77 mg/L	3.90 NTU	284.2 mV	27.15 ft	200.00 ml/min
8/10/2022 3:45 PM	15:00	4.33 pH	20.23 °C	2,324.7 µS/cm	1.36 mg/L	3.85 NTU	330.2 mV	27.15 ft	200.00 ml/min
8/10/2022 3:50 PM	20:00	4.34 pH	20.17 °C	2,326.4 µS/cm	1.10 mg/L	4.00 NTU	273.4 mV	27.15 ft	200.00 ml/min
8/10/2022 3:55 PM	25:00	4.35 pH	20.33 °C	2,327.1 µS/cm	0.30 mg/L	3.55 NTU	268.9 mV	27.15 ft	200.00 ml/min
8/10/2022 4:00 PM	30:00	4.35 pH	20.34 °C	2,325.2 µS/cm	0.22 mg/L	3.17 NTU	315.9 mV	27.15 ft	200.00 ml/min
8/10/2022 4:05 PM	35:00	4.36 pH	20.39 °C	2,321.9 µS/cm	0.20 mg/L	1.64 NTU	252.5 mV	27.15 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-33	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 1:10:43 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-34D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.68 ft Total Depth: 71.10 ft Initial Depth to Water: 31.15 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 68.68 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Rainy, 75 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 1:10 PM	00:00	6.82 pH	23.26 °C	2,619.7 µS/cm	1.13 mg/L	37.70 NTU	73.2 mV	31.20 ft	100.00 ml/min
8/10/2022 1:15 PM	05:00	6.94 pH	22.18 °C	2,654.5 µS/cm	0.74 mg/L	38.00 NTU	61.6 mV	31.20 ft	100.00 ml/min
8/10/2022 1:20 PM	10:00	6.97 pH	22.00 °C	2,652.9 µS/cm	0.63 mg/L	35.30 NTU	63.3 mV	31.20 ft	100.00 ml/min
8/10/2022 1:25 PM	15:00	6.98 pH	21.88 °C	2,656.3 µS/cm	0.56 mg/L	32.10 NTU	59.2 mV	31.20 ft	100.00 ml/min
8/10/2022 1:30 PM	20:00	6.99 pH	21.87 °C	2,658.4 µS/cm	0.50 mg/L	30.90 NTU	56.6 mV	31.20 ft	100.00 ml/min
8/10/2022 1:35 PM	25:00	7.00 pH	21.86 °C	2,654.1 µS/cm	0.45 mg/L	19.50 NTU	62.8 mV	31.20 ft	100.00 ml/min
8/10/2022 1:40 PM	30:00	7.00 pH	21.87 °C	2,656.1 µS/cm	0.40 mg/L	19.00 NTU	64.5 mV	31.20 ft	100.00 ml/min
8/10/2022 1:45 PM	35:00	7.00 pH	21.82 °C	2,654.8 µS/cm	0.36 mg/L	7.64 NTU	63.9 mV	31.20 ft	100.00 ml/min
8/10/2022 1:50 PM	40:00	7.00 pH	21.82 °C	2,653.1 µS/cm	0.33 mg/L	6.12 NTU	62.6 mV	31.20 ft	100.00 ml/min
8/10/2022 1:55 PM	45:00	7.00 pH	21.76 °C	2,650.5 µS/cm	0.30 mg/L	4.99 NTU	61.8 mV	31.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
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MW-34D

Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/11/2022 8:43:32 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-35 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.52 ft Total Depth: 24.32 ft Initial Depth to Water: 9.55 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 18.52 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.38 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 75 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 8:43 AM	00:00	4.92 pH	20.00 °C	2,359.9 µS/cm	0.32 mg/L	3.94 NTU	193.3 mV	10.55 ft	100.00 ml/min
8/11/2022 8:48 AM	05:00	4.90 pH	19.77 °C	2,372.5 µS/cm	0.23 mg/L	4.06 NTU	190.3 mV	10.65 ft	100.00 ml/min
8/11/2022 8:53 AM	10:00	4.88 pH	19.66 °C	2,371.5 µS/cm	0.19 mg/L	3.99 NTU	256.9 mV	10.70 ft	100.00 ml/min
8/11/2022 8:58 AM	15:00	4.87 pH	19.60 °C	2,402.6 µS/cm	0.16 mg/L	3.26 NTU	259.3 mV	10.80 ft	100.00 ml/min
8/11/2022 9:03 AM	20:00	4.87 pH	19.50 °C	2,427.0 µS/cm	0.15 mg/L	1.84 NTU	258.3 mV	10.85 ft	100.00 ml/min
8/11/2022 9:08 AM	25:00	4.86 pH	19.60 °C	2,438.3 µS/cm	0.14 mg/L	1.62 NTU	184.9 mV	10.90 ft	100.00 ml/min
8/11/2022 9:13 AM	30:00	4.86 pH	19.66 °C	2,445.2 µS/cm	0.14 mg/L	1.81 NTU	249.4 mV	10.93 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-35	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2022 1:25:34 PM

Project: GP-Plant Hammond

Operator Name: Alex Brown

Location Name: MW-37D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.63 ft Total Depth: 77.61 ft Initial Depth to Water: 17.99 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 71.5 ft Estimated Total Volume Pumped: 29.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 35.95 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 85 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2022 1:25 PM	00:00	7.14 pH	20.41 °C	890.36 µS/cm	0.28 mg/L	4.13 NTU	-79.2 mV	20.45 ft	200.00 ml/min
8/10/2022 1:30 PM	05:00	7.22 pH	20.23 °C	874.21 µS/cm	0.19 mg/L	1.61 NTU	-106.4 mV	22.36 ft	200.00 ml/min
8/10/2022 1:35 PM	10:00	7.25 pH	20.17 °C	866.49 µS/cm	0.16 mg/L	1.20 NTU	-108.9 mV	23.69 ft	200.00 ml/min
8/10/2022 1:40 PM	15:00	7.27 pH	20.15 °C	856.13 µS/cm	0.14 mg/L	1.15 NTU	-110.7 mV	24.95 ft	200.00 ml/min
8/10/2022 1:45 PM	20:00	7.27 pH	19.81 °C	848.43 µS/cm	0.13 mg/L	1.10 NTU	-111.1 mV	26.65 ft	200.00 ml/min
8/10/2022 1:50 PM	25:00	7.28 pH	19.77 °C	848.26 µS/cm	0.11 mg/L	0.89 NTU	-111.0 mV	28.23 ft	200.00 ml/min
8/10/2022 1:55 PM	30:00	7.29 pH	19.73 °C	848.13 µS/cm	0.11 mg/L	0.87 NTU	-110.8 mV	30.60 ft	200.00 ml/min
8/10/2022 2:00 PM	35:00	7.29 pH	19.77 °C	845.66 µS/cm	0.12 mg/L	0.91 NTU	-110.4 mV	32.19 ft	200.00 ml/min
8/10/2022 2:05 PM	40:00	7.30 pH	19.68 °C	841.49 µS/cm	0.12 mg/L	0.80 NTU	-109.9 mV	33.49 ft	200.00 ml/min
8/10/2022 2:10 PM	45:00	7.30 pH	19.65 °C	846.33 µS/cm	0.12 mg/L	0.75 NTU	-109.3 mV	35.60 ft	200.00 ml/min
8/10/2022 2:15 PM	50:00	7.31 pH	19.72 °C	845.50 µS/cm	0.13 mg/L	0.57 NTU	-82.9 mV	36.55 ft	200.00 ml/min
8/10/2022 2:20 PM	55:00	7.31 pH	19.70 °C	843.08 µS/cm	0.13 mg/L	0.60 NTU	-107.5 mV	37.75 ft	200.00 ml/min
8/10/2022 2:25 PM	01:00:00	7.32 pH	19.68 °C	837.21 µS/cm	0.13 mg/L	0.69 NTU	-107.5 mV	39.05 ft	200.00 ml/min
8/10/2022 2:30 PM	01:05:00	7.32 pH	19.68 °C	842.99 µS/cm	0.14 mg/L	0.82 NTU	-81.5 mV	40.65 ft	200.00 ml/min

8/10/2022 2:35 PM	01:10:00	7.33 pH	19.73 °C	842.22 µS/cm	0.14 mg/L	0.73 NTU	-106.0 mV	41.79 ft	200.00 ml/min
8/10/2022 2:40 PM	01:15:00	7.34 pH	19.72 °C	840.37 µS/cm	0.14 mg/L	0.68 NTU	-106.5 mV	42.86 ft	200.00 ml/min
8/10/2022 2:45 PM	01:20:00	7.35 pH	19.73 °C	833.15 µS/cm	0.14 mg/L	0.87 NTU	-107.2 mV	44.39 ft	200.00 ml/min
8/10/2022 2:50 PM	01:25:00	7.36 pH	19.73 °C	839.14 µS/cm	0.15 mg/L	0.75 NTU	-80.8 mV	45.43 ft	200.00 ml/min
8/10/2022 2:55 PM	01:30:00	7.37 pH	19.72 °C	833.01 µS/cm	0.15 mg/L	0.80 NTU	-107.0 mV	46.58 ft	200.00 ml/min
8/10/2022 3:00 PM	01:35:00	7.38 pH	19.71 °C	833.84 µS/cm	0.15 mg/L	1.39 NTU	-106.9 mV	47.61 ft	200.00 ml/min
8/10/2022 3:05 PM	01:40:00	7.39 pH	19.71 °C	835.14 µS/cm	0.15 mg/L	0.95 NTU	-106.1 mV	48.98 ft	200.00 ml/min
8/10/2022 3:10 PM	01:45:00	7.39 pH	19.72 °C	840.25 µS/cm	0.17 mg/L	0.77 NTU	-104.3 mV	50.03 ft	200.00 ml/min
8/10/2022 3:15 PM	01:50:00	7.39 pH	19.70 °C	834.44 µS/cm	0.17 mg/L	0.83 NTU	-104.2 mV	50.73 ft	200.00 ml/min
8/10/2022 3:20 PM	01:55:00	7.41 pH	20.53 °C	818.04 µS/cm	0.22 mg/L	0.85 NTU	-108.3 mV	50.98 ft	100.00 ml/min
8/10/2022 3:25 PM	02:00:00	7.42 pH	20.57 °C	822.13 µS/cm	0.24 mg/L	0.95 NTU	-111.5 mV	51.29 ft	100.00 ml/min
8/10/2022 3:30 PM	02:05:00	7.43 pH	20.57 °C	824.82 µS/cm	0.23 mg/L	0.89 NTU	-113.2 mV	51.48 ft	100.00 ml/min
8/10/2022 3:35 PM	02:10:00	7.45 pH	20.70 °C	815.71 µS/cm	0.23 mg/L	0.62 NTU	-114.8 mV	51.81 ft	100.00 ml/min
8/10/2022 3:40 PM	02:15:00	7.45 pH	20.75 °C	812.08 µS/cm	0.23 mg/L	0.69 NTU	-116.0 mV	52.09 ft	100.00 ml/min
8/10/2022 3:45 PM	02:20:00	7.45 pH	20.84 °C	819.20 µS/cm	0.24 mg/L	0.78 NTU	-116.6 mV	52.38 ft	100.00 ml/min
8/10/2022 3:50 PM	02:25:00	7.46 pH	20.85 °C	813.60 µS/cm	0.24 mg/L	0.83 NTU	-117.2 mV	52.56 ft	100.00 ml/min
8/10/2022 3:55 PM	02:30:00	7.46 pH	20.86 °C	810.56 µS/cm	0.24 mg/L	0.68 NTU	-93.4 mV	52.80 ft	100.00 ml/min
8/10/2022 4:00 PM	02:35:00	7.46 pH	20.95 °C	819.24 µS/cm	0.24 mg/L	1.36 NTU	-118.3 mV	53.03 ft	100.00 ml/min
8/10/2022 4:05 PM	02:40:00	7.47 pH	20.83 °C	826.54 µS/cm	0.24 mg/L	1.02 NTU	-118.8 mV	53.28 ft	100.00 ml/min
8/10/2022 4:10 PM	02:45:00	7.47 pH	20.78 °C	816.59 µS/cm	0.23 mg/L	0.87 NTU	-94.9 mV	53.51 ft	100.00 ml/min
8/10/2022 4:15 PM	02:50:00	7.47 pH	20.75 °C	816.95 µS/cm	0.23 mg/L	1.08 NTU	-119.7 mV	53.68 ft	100.00 ml/min
8/10/2022 4:20 PM	02:55:00	7.47 pH	20.81 °C	826.92 µS/cm	0.23 mg/L	0.79 NTU	-95.8 mV	53.82 ft	100.00 ml/min
8/10/2022 4:25 PM	03:00:00	7.47 pH	20.93 °C	834.02 µS/cm	0.25 mg/L	0.98 NTU	-120.4 mV	53.94 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-37D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2022 10:25:59 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.9 ft Total Depth: 28.98 ft Initial Depth to Water: 9.85 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 23.9 ft Estimated Total Volume Pumped: 5.5 L Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.8 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884186
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Test Notes:

Seven Bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 75 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2022 10:25 AM	00:00	6.33 pH	20.31 °C	2,433.9 µS/cm	0.52 mg/L	76.70 NTU	57.1 mV	10.42 ft	100.00 ml/min
8/11/2022 10:30 AM	05:00	6.35 pH	20.31 °C	2,425.2 µS/cm	0.45 mg/L	79.20 NTU	60.6 mV	10.45 ft	100.00 ml/min
8/11/2022 10:35 AM	10:00	6.35 pH	19.99 °C	2,413.3 µS/cm	0.26 mg/L	80.00 NTU	67.3 mV	10.47 ft	100.00 ml/min
8/11/2022 10:40 AM	15:00	6.35 pH	19.95 °C	2,422.1 µS/cm	0.33 mg/L	128.00 NTU	62.3 mV	10.47 ft	100.00 ml/min
8/11/2022 10:45 AM	20:00	6.34 pH	19.93 °C	2,410.0 µS/cm	0.21 mg/L	145.00 NTU	68.2 mV	10.47 ft	100.00 ml/min
8/11/2022 10:50 AM	25:00	6.33 pH	19.83 °C	2,406.7 µS/cm	0.28 mg/L	129.00 NTU	69.0 mV	10.47 ft	100.00 ml/min
8/11/2022 10:55 AM	30:00	6.33 pH	19.65 °C	2,414.7 µS/cm	0.25 mg/L	130.00 NTU	69.1 mV	10.50 ft	100.00 ml/min
8/11/2022 11:00 AM	35:00	6.33 pH	19.68 °C	2,406.1 µS/cm	0.15 mg/L	25.00 NTU	68.0 mV	10.70 ft	100.00 ml/min
8/11/2022 11:05 AM	40:00	6.35 pH	19.76 °C	2,418.2 µS/cm	0.15 mg/L	12.24 NTU	62.2 mV	10.65 ft	100.00 ml/min
8/11/2022 11:10 AM	45:00	6.37 pH	19.77 °C	2,425.4 µS/cm	0.15 mg/L	10.13 NTU	58.3 mV	10.65 ft	100.00 ml/min
8/11/2022 11:15 AM	50:00	6.37 pH	19.77 °C	2,422.0 µS/cm	0.23 mg/L	3.68 NTU	57.1 mV	10.65 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-51	Grab.

Created using VuSitu from In-Situ, Inc.

CALIBRATION REPORTS

January/February 2022

EQUIPMENT CALIBRATION LOG

Field Technician: AS

Date: 2/1/2022

Time (start): 754

Time (finish): 815

smarTroll SN: 843593

Turbidity Meter Type: LaMote 2020we

SN: 1475

Weather Conditions: Clear, 35°F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 08/2022	3.70	4490	4596.3	4490.0	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)		3.85	4.00	3.97	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	21070193 08/2022	3.70	4.00	4.21 <i>4.21</i>	4.00 <i>4.00</i>	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	<i>Lost battery, 2nd Calibration</i>
pH (7)	21010066 08/2022	4.65	7.00	7.04	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check	21010066 08/2022	4.65	7.00	7.22 <i>7.22</i>	7.00 <i>7.00</i>	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (10)	21080189 06/2022	5.46	10.00	10.21	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check	21080189 06/2022	5.46	10.00	10.07 <i>10.07</i>	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
ORP (mV)	21140141 08/2022	5.46	228	242.2	228.0	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	97.67	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.66	0.43	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.42	1.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	8.13	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAW

Date: 2/1/22

Time (start): 0809

Time (finish): 0829

smarTroll SN: 850724

Turbidity Meter Type: LaMotte 2020we

SN: 1601

Weather Conditions: Sunny 31°

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	2.11	4490	4563.4	4490	+/- 5%	<input checked="" type="checkbox"/> Yes No	
pH (4)			4.00	3.99	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (4) check	21070193 8/22	14.6 2.11	4.00	4.13	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (7)	21010066 8/22	2.39	7.00	7.07	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (7) check	21010066 8/22	14.96	7.00	7.16	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (10)	21080189 6/22	2.35	10.00	10.22	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (10) check	21080189 6/22	14.13	10.00	10.05	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
ORP (mV)	21140141 8/22	2.21	228	247.2	228	+/- 20mV	<input checked="" type="checkbox"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.59	100	+/- 6% saturation	<input checked="" type="checkbox"/> Yes No	
Turbidity 0 NTU			0	0.02	0.02	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 1 NTU			1.00	1.04	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 10 NTU			10.00	10.89	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hessler Date: 2/11/2022 Time (start): 0730 Time (finish): 0820
 smarTroll SN: 729634 Turbidity Meter Type: LaMotte 2020we SN: 5990-3915
 Weather Conditions: Clear, 30° Facility and Unit: Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	10.35	4490	4255.6	4490	+/- 5%	Yes No	
pH (4)	08/22/2022	10.35	4.00	4.02	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 8/22	—	4.00	4.02	—	+/- 0.1 SU	Yes No	
pH (7)	21010066 08/20/22	8.32	7.00	7.05	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/22	—	7.00	6.99	—	+/- 0.1 SU	Yes No	
pH (10)	21080189 08/20/22	7.86	10.00	10.09	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 8/20/22	7.45	10.00	7.552	7.74	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/20/22	—	228	10.06	—	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	88.7	100	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.52	0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.99	1.00	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	7.97	9.93	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swart

Date: 2/7/2022

Time (start): 813

Time (finish): 830

smarTroll SN: 843593

Turbidity Meter Type: LaMote 2020we

SN: 1475

Weather Conditions: Sunny, 35°F

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 08/2022	9.99	4490	4574.4	4490.0	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)		10.08	4.00	3.97	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	21070193 08/2022	10.83	4.00	4.13	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	21010066 08/2022	9.98	7.00	7.04	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check	21010066 08/2022	11.01	7.00	7.15	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (10)	21080189 06/2022	10.11	10.00	10.09	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check	21080189 06/2022	11.05	10.00	10.12	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
ORP (mV)	21140141 08/2022	10.27	228	234.0	228.0	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.00	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.14	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.12	1.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	9.81	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAW Date: 2/7/22 Time (start): 0810 Time (finish): 0841
 smarTroll SN: 850724 Turbidity Meter Type: LaMotte 2020we SN: 1610
 Weather Conditions: Sun 29F Facility and Unit: Plant Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	9.76	4490	4292	4490	+/- 5%	<input checked="" type="checkbox"/> No	
pH (4)			4.00	3.97	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	21070193 8/22	11.98	4.00	4.08	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (7)	21010066 8/22	7.92	7.00	7.05	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	21010066 8/22	12.24	7.00	7.07	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (10)	21080189 6/22	7.32	10.00	10.12	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	21080189 6/22	11.28	10.00	10.09	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
ORP (mV)	21140141 8/22	8.87	228	241.0	228	+/- 20mV	<input checked="" type="checkbox"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	100.72	100	+/- 6% saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.01	0.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	0.89	1.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	10.06	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: Werner Hofer

Date: 2/17/2022

Time (start): 0500

Time (finish): 0840

smarTroll SN: 778634

Turbidity Meter Type: LaMotte 2020we

SN: 5940-3915

Weather Conditions: Sunny, 29°

Facility and Unit: Hummer

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070197 08/2022	3.49	4490	5.007	4490	+/- 5%	<input checked="" type="radio"/> Yes No	
pH (4)			4.00	3.97	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	21070193 05/2022	—	4.00	4.00	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	21010066 06/2022	7.33	7.00	7.07	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check	21010066 08/2022	—	7.00	6.92	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (10)	21050159 06/2022	7.95	10.00	10.08	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check	21050159 06/2022	—	10.00	10.03	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
ORP (mV)	21140141 08/2022	8.76	228	235.8	228	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	96.25	100	+/- 6% saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	1.59	0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	0.16	1.05	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	7.77	9.85	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swest

Date: 2/8/2022

Time (start): 800

Time (finish): 821

smarTroll SN: 843593

Turbidity Meter Type: LaMote 2020we

SN: 1475

Weather Conditions: Sunny, 30°F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	4.9501 2/28/22 5.36	4490	4610.0	4490.0	+/- 5%	Yes No	
pH (4)	08/2022	5.36	4.00	3.96	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/2022	15.48	4.00	4.09	4.00	+/- 0.1 SU	Yes No	
pH (7)	21010066 08/2022	5.97	7.00	7.00	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/2022	14.26	7.00	7.08	7.00	+/- 0.1 SU	Yes No	
pH (10)	21080189 06/2022	6.67	10.00	10.13	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 06/2022	14.68	10.00	10.08	10.00	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	6.84	228	232.7	228.0	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.13	100.0	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0	0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.82	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.55	10.0	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 2/8/22

Time (start): 0747

Time (finish): 0813

smarTroll SN: 850724

Turbidity Meter Type: LaMotte 2020we

SN: 1610

Weather Conditions: Sun 27F

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	7.89	4490	4659	4490	+/- 5 %	<input checked="" type="checkbox"/> Yes No	
pH (4)			4.00	4.03	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (4) check	21070193 // 8/22	—	4.00	4.04	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (7)	21010066 8/22	8.04	7.00	7.06	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (7) check			21010066 // 8/22	—	7.00	6.97	7.0	+/- 0.1 SU
pH (10)	21080189 6/22	7.78	10.00	10.13	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (10) check			21080189 // 6/22	—	10.00	10.07	10.0	+/- 0.1 SU
ORP (mV)	21140141 8/22	7.41	228	227.6	228	+/- 20mV	<input checked="" type="checkbox"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.47	100	+/- 6 % saturation	<input checked="" type="checkbox"/> Yes No	
Turbidity 0 NTU			0	0.0	0.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 1 NTU			1.00	1.00	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 10 NTU			10.00	10.26	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kress Date: 2/8/2022 Time (start): 0740 Time (finish): 0818
 smarTroll SN: 728634 Turbidity Meter Type: LaMotte 2020we SN: 5990-3915
 Weather Conditions: Sunny, 28° Facility and Unit: Plant Hammer Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070913	4.75	4490	4283.2	4490	+/- 5%	Yes No	
pH (4)	08/2022		4.00	4.03	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070913 08/2022	—	4.00	3.99	—	+/- 0.1 SU	Yes No	
pH (7)	21010000 08/2022	5.75	7.00	7.05	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010000 08/2022	—	7.00	7.01	—	+/- 0.1 SU	Yes No	
pH (10)	21080189 04/22	6.53	10.00	10.05	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 08/22	—	10.00	10.03	—	+/- 0.1 SU	Yes No	
ORP (mV)	21080189 02/2022	6.55	228	228.1	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	92.05	100.00	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.00	0.00	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.15	0.94	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	7.10	10.08	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Travis Messer Date: 2/18/2022 Time (start): 0900 Time (finish): 0935
 smarTroll SN: 728634 Turbidity Meter Type: LaMotte 2020we SN: 5940-3915
 Weather Conditions: Clear, 30 Facility and Unit: Mumford Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070143 08/22	8.70	4490	4353.7	4490	+/- 5%	Yes No	
pH (4)			4.00	4.02	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/22	4.02	4.00	4.03	—	+/- 0.1 SU	Yes No	
pH (7)	21010066 08/22	8.88	7.00	7.00	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/22	—	7.00	7.00	—	+/- 0.1 SU	Yes No	
pH (10)	21026181 08/22	8.69	10.00	10.09	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080199 08/2022	—	10.00	9.92	—	+/- 0.1 SU	Yes No	
ORP (mV)	2114141 08/22	8.69	228	226.5	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.02	100	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.51	0.00	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.24	1.06	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	6.70	9.69	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hepp Date: 2/10/2022 Time (start): 0525 Time (finish): 758
 smarTroll SN: 778634 Turbidity Meter Type: LaMotte 2020we SN: 5990-3915
 Weather Conditions: Sun, 48° Facility and Unit: Hammond Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	6.9	4490	4666.1	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	08/2022		4.00	4.00	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	21070193 08/2022	—	4.00	4.05	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21010066 08/2022	7.98	7.00	7.04	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	21010066 08/2022	—	7.00	7.01	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	21050189 08/2022	8.75	10.00	10.12	10.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	21050189 08/2022	—	10.00	9.98	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21140141 08/2022	8.83	228	226.1	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	95.74	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.83	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.11	1.76	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	7.47	9.85	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

August 2022

EQUIPMENT CALIBRATION LOG

Field Technician Anthony S.

Date 8/12/2022

Time (start): 7:20

Time (finish): 7:35

smarTroll SN: 843593

Turbidity Meter Type LaMotte 2020we

SN: 1511-4111

Weather Conditions cloudy, 80-90 °F

Facility and Unit Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	24.03	4490	4589	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	08/22	24.03	4.00	4.09	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	21070193 08/22	30.29	4.00	3.99	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21380102 04/23	24.26	7.00	7.38	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	21380102 04/23	30.26	7.00	6.77	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	20080056 04/23	24.42	10.00	10.53	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	20080056 04/23	29.74	10.00	9.72	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21140143 04/23	24.35	228	235.7	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	104.59	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.07	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.17	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	10.35	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician Tristan O

Date 8/2/22

Time (start): 7:18

Time (finish): 7:40

smarTroll SN: 883546

Turbidity Meter Type LaMotte 2020we

SN: 11603

Weather Conditions: Cloudy, 80°

Facility and Unit Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21470032 04/2023	25°	4490	4291	4490	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)			4.00	4.16	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	/		4.00	4.08	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	21380102 04/23	24.1	7.00	7.14	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check			/		7.00	7.01	7.00	+/- 0.1 SU
pH (10)	26080056 04/23	23.9	10.00	10.47	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check			/		10.00	9.95	10.00	+/- 0.1 SU
ORP (mV)	21140143 04/23	24.2	228	225.1	228	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.54	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.88	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	0.99	1.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	10.18	9.99	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician A. Brown

Date 8/9/22

Time (start): 0713

Time (finish): 0736

smarTroll SN B43593

Turbidity Meter Type LaMotte 2020we

SN: 1511-4111

Weather Conditions 78F Sunny

Facility and Unit: Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	24.29	4490	4470.4	4490	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)			4.00	3.90	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	— 11 —	27.89	4.00	3.98	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	21380102 4/23	24.41	7.00	6.94	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check	— 11 —	28.00	7.00	6.97	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (10)	20080056 4/23	24.53	10.00	9.97	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check	— 11 —	28.15	10.00	9.96	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
ORP (mV)	21140143 4/23	24.47	228	229.6	228.0	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.60	100.00	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.27	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.00	/	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	10.67	9.92	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Brown

Date: 8/10/22

Time (start): 0710

Time (finish): 0725

smarTroll SN: 043593

Turbidity Meter Type: LaMotte 2020we

SN: 1511-411

Weather Conditions: 70F Cloudy

Facility and Unit: Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21470032	23.43	4490	4412.6	4490	+/- 5%	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	4/2023		4.00	4.14	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	— 11 —	28.35	4.00	3.96	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21380102 04/2023	23.90	7.00	7.05	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	— 11 —	28.25	7.00	7.02	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	20080056 4/2023	23.97	10.00	10.12	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	— 11 —	23.43	10.00	10.03	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21140143 4/2023	24.11	228	228.1	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	98.98	100.0	+/- 6% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.25	0.02	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.79	0.95	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	11.61	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician Tristan O Date 8/10/2022 Time (start): 7:20 Time (finish): 7:42
 smarTroll SN 883546 Turbidity Meter Type LaMote 2020we SN: 1603
 Weather Conditions cloudy Facility and Unit Plant Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21470022	23.14	4490	4489.1	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	04/2023		4.00	3.98	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	 	27.50	4.00	4.05	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21380102 04/23	23.95	7.00	7.02	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	 		7.00	7.01	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	20080056 04/23	24.26	10.00	9.99	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	 		10.00	9.93	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	2140143 04/23	24.35	228	232	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	104.10	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.78	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.48	0.99	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	9.99	10.01	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician Thomas Kessler

Date 8/10/2022

Time (start): 0710

Time (finish) 0730

smarTroll SN 884180

Turbidity Meter Type LaMotte 2020we

SN 22892677

Weather Conditions Overcast, 75°

Facility and Unit Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21470032 04/23	23.54	4490	4470.8 4470.8	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)			4.00	4.03	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			4.00	4.00		+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21380102 04/23	23.77	7.00	7.05	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	20050056 04/23		7.00	6.98		+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)		23.96	10.00	9.93	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			10.00	10.0		+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	2140145 5/21	24.06	228	231.3	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.62	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	1.69	0.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.32	1.21	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	11.3	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Brown

Date: 8/11/22

Time (start): 0740

Time (finish): 0754

smarTroll SN: 043593

Turbidity Meter Type: LaMotte 2020we

SN: 1511-4111

Weather Conditions: 73F Cloudy

Facility and Unit: Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	23.12	4490	4503.2	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	8/2022		4.00	4.03	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	21380102 4/2023 ^(AS)	23 ^(AS)	4.00	7.05 ^(AS)	—	+/- 0.1 SU	<input type="radio"/> Yes <input checked="" type="radio"/> No	
pH (7)	21380102 4/2023	23.45	7.00	7.05	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	—	—	7.00	—	—	+/- 0.1 SU	<input type="radio"/> Yes <input checked="" type="radio"/> No	
pH (10)	20080056 4/2023	23.65	10.00	9.96	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	—	—	10.00	—	—	+/- 0.1 SU	<input type="radio"/> Yes <input checked="" type="radio"/> No	
ORP (mV)	21140143 4/2023	23.61	228	226.8	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.10	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.37	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.69	0.84	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	9.83	9.99	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician Thomas Kessler Date 8/11/2022 Time (start): 7:47:11 Time (finish): 07:35
 smarTroll SN 884186 Turbidity Meter Type: LaMote 2020we SN: 22892677
 Weather Conditions Overcast, 70° Facility and Unit Plant Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21476032	22.76	4490	4537.3	4490	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)	04/23		4.00	4.02	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	/	/	4.00	4.00	/	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	2138402 04/23	23.66	7.00	6.96	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check	/	/	7.00	6.91	/	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (10)	2065056 04/23	23.81	10.00	10.00	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check	/	/	10.00	10.02	/	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
ORP (mV)	21140145 04/23	23.88	228	223	228	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.5	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	1.0	0.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	0.51	1.08	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	10.64	9.92	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

APPENDIX D

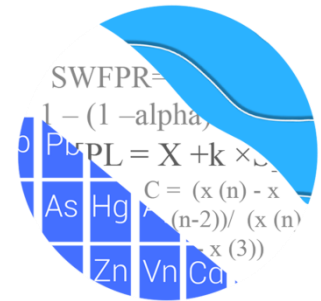
Statistical Analysis Reports

January/February 2022

GROUNDWATER STATS CONSULTING

August 31, 2022

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Hammond Ash Pond 2 (AP-2)
Statistical Analysis – February 2022 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016 and at least 8 samples were collected for all wells except for newer upgradient wells HGWA-42D, HGWA-43D, and HGWA-44D and delineation wells. Sampling began in 2019 for delineation wells MW-21D, MW-22, and MW-23D; and in 2020 for upgradient wells HGWA-42D, HGWA-43D, HGWA-44D, delineation wells MW-34D and MW-37D, and piezometers MW-33 and MW-35.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** HGWA-1, HGWA-2, HGWA-3, HGWA-4, HGWA-5, HGWA-6, HGWA-42D, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18

- **Delineation wells:** MW-21D, MW-22, MW-23D, and MW-37D
- **Piezometers:** MW-33, MW-34D, MW-35, and MW-51

Note that piezometer MW-51 was first sampled during the August 2021 sample event and only 2 samples have been collected. All other piezometers have at least 4 samples. Delineation wells and piezometers are included on time series and box plots for all parameters. When a minimum of 4 samples is available, these wells and piezometers are evaluated using confidence intervals for the Appendix IV constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater data screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR program consists of 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) – arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, 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 summary of well/constituent pairs containing 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the case of lithium, historical reporting limits vary among the wells. Therefore, the reporting limit of 0.03 mg/L was substituted across all wells, which is the most recent reporting limit provided by the laboratory.

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. When values in background are flagged as outliers, they may be seen in a lighter

font and as a disconnected symbol on the graphs. No values were flagged as outliers (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

Appendix III parameters are evaluated using Interwell Prediction Limits combined with 1-of-2 resamples for all constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits 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 distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- 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. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect 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. When this step is required, a summary of any adjusted records will be provided.

Statistical Evaluation of Appendix III Parameters – February 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. When values in background have been flagged as outliers, they may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged and no values have been flagged as outliers (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for all Appendix III parameters using all historical upgradient well data through February 2022 (Figure D). Downgradient measurements were compared to these interwell background limits. Interwell prediction limits use all available upgradient well data to establish a background limit for an individual constituent. The February 2022 sample from each downgradient well is compared to the background limit to determine whether any 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 the resample confirm the initial exceedance, a statistically significant increase (SSI) 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; therefore, no further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed.

When the February 2022 compliance data from downgradient wells were compared to interwell prediction limits, several exceedances were noted. A summary table of these findings is provided along with the prediction limits.

Trend Test Evaluation – Appendix III

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. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 (upgradient) and HGWC-16
- Calcium: HGWA-3 (upgradient) and HGWC-16
- Chloride: HGWA-44D (upgradient) and HGWC-16
- Sulfate: HGWA-2 (upgradient)
- TDS: HGWC-16 and HGWC-17

Decreasing trends:

- Calcium: HGWA-4 (upgradient)
- Chloride: HGWA-4 (upgradient), HGWA-6 (upgradient), HGWC-14, HGWC-15, and HGWC-18
- pH: HGWA-4 (upgradient)
- TDS: HGWA-4 (upgradient) and HGWC-14

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – February 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. Well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Site specific background limits were calculated as upper one-sided tolerance limits (UTLs) on pooled upgradient interwell data through February 2022 for each of the Appendix IV constituents (Figure F). When varying detection limits were present in upgradient wells, all non-detects were substituted with the most recent reporting limit. As mentioned above, an alternate reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits were 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 to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well and delineation wells with 4 or more samples.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. 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. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Cobalt: HGWC-18, MW-33, and MW-35

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test 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. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- None

Decreasing trends:

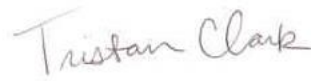
- Cobalt: HGWC-18

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Tristan Clark
Groundwater Analyst



Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 4/26/2022 4:53 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Antimony (mg/L)

HGWC-16, HGWC-17, MW-21D, MW-23D, MW-34D

Beryllium (mg/L)

HGWC-15, HGWC-16, MW-21D, MW-23D

Cadmium (mg/L)

HGWC-16, MW-21D, MW-37D

Lithium (mg/L)

HGWC-14

Mercury (mg/L)

HGWC-14, HGWC-15, HGWC-16, HGWC-17, MW-21D, MW-22, MW-23D, MW-33, MW-34D, MW-37D

Molybdenum (mg/L)

HGWC-14, HGWC-16, HGWC-17, HGWC-18, MW-33, MW-34D, MW-35

Selenium (mg/L)

MW-21D, MW-23D, MW-37D

Thallium (mg/L)

HGWC-15, HGWC-16, MW-21D, MW-22, MW-23D, MW-37D

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/9/2022	9.9	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/8/2022	1.9	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/8/2022	2.6	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	2/8/2022	7.8	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/8/2022	8.1	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	143.5	n/a	2/9/2022	571	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-15	143.5	n/a	2/8/2022	186	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-16	143.5	n/a	2/8/2022	218	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-17	143.5	n/a	2/8/2022	280	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-18	143.5	n/a	2/8/2022	418	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Chloride (mg/L)	HGWC-14	44.8	n/a	2/9/2022	174	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-15	44.8	n/a	2/8/2022	76.6	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-16	44.8	n/a	2/8/2022	96.4	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-17	44.8	n/a	2/8/2022	117	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-18	44.8	n/a	2/8/2022	105	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-18	8.25	4.9	2/8/2022	4.59	Yes	156	n/a	n/a	0	n/a	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-14	85.9	n/a	2/9/2022	1190	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-15	85.9	n/a	2/8/2022	360	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-16	85.9	n/a	2/8/2022	238	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-17	85.9	n/a	2/8/2022	364	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-18	85.9	n/a	2/8/2022	960	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/9/2022	2310	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/8/2022	866	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/8/2022	852	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	2/8/2022	1160	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/8/2022	1770	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/9/2022	9.9	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/8/2022	1.9	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/8/2022	2.6	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	2/8/2022	7.8	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/8/2022	8.1	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	143.5	n/a	2/9/2022	571	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-15	143.5	n/a	2/8/2022	186	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-16	143.5	n/a	2/8/2022	218	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-17	143.5	n/a	2/8/2022	280	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-18	143.5	n/a	2/8/2022	418	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Chloride (mg/L)	HGWC-14	44.8	n/a	2/9/2022	174	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-15	44.8	n/a	2/8/2022	76.6	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-16	44.8	n/a	2/8/2022	96.4	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-17	44.8	n/a	2/8/2022	117	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-18	44.8	n/a	2/8/2022	105	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-14	8.25	4.9	2/9/2022	4.97	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-15	8.25	4.9	2/8/2022	6.04	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-16	8.25	4.9	2/8/2022	7.18	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-17	8.25	4.9	2/8/2022	6.42	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-18	8.25	4.9	2/8/2022	4.59	Yes	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-14	0.96	n/a	2/9/2022	0.053J	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-15	0.96	n/a	2/8/2022	0.1ND	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-16	0.96	n/a	2/8/2022	0.1ND	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-17	0.96	n/a	2/8/2022	0.055J	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-18	0.96	n/a	2/8/2022	0.19	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-14	85.9	n/a	2/9/2022	1190	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-15	85.9	n/a	2/8/2022	360	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-16	85.9	n/a	2/8/2022	238	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-17	85.9	n/a	2/8/2022	364	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-18	85.9	n/a	2/8/2022	960	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/9/2022	2310	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/8/2022	866	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/8/2022	852	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	2/8/2022	1160	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/8/2022	1770	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2592	105	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.416	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.763	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	13.65	120	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4101	-117	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.09427	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-82.72	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-24.78	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	13.04	137	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-37.28	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.2883	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-31.44	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-185.6	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.63	117	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	63.57	86	68	Yes	18	5.556	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0002287	-9	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0	-1	-68	No	18	16.67	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-4 (bg)	-0.0007228	-34	-68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-42D (bg)	-0.009419	-7	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.01252	-11	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.1524	14	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-5 (bg)	0.0001545	14	68	No	18	16.67	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-6 (bg)	-0.0003871	-21	-68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.157	-61	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-15	0.04163	28	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2592	105	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-17	0.2168	31	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-18	-0.1628	-24	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.173	48	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.4885	35	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.416	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.763	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-42D (bg)	1.22	3	18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.578	-7	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-5.272	-9	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-5 (bg)	0.211	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-6 (bg)	0.3827	26	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-14	-3.303	-15	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-15	2.137	21	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	13.65	120	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-17	15.94	58	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-18	7.552	38	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.5239	40	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.1714	-45	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.129	-59	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4101	-117	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-42D (bg)	-0.8588	-10	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	-0.2444	-4	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-5 (bg)	-0.08595	-62	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.09427	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-82.72	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-24.78	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	13.04	137	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-17	9.415	55	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-37.28	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-1 (bg)	-0.02122	-51	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-2 (bg)	-0.04158	-52	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-3 (bg)	0.003685	8	92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.2883	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-42D (bg)	0.1277	19	21	No	8	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-43D (bg)	0.09834	10	21	No	8	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-44D (bg)	0.1333	9	21	No	8	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-5 (bg)	-0.03318	-65	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-6 (bg)	-0.007348	-19	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWC-18	-0.02025	-67	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.419	24	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	1.099	53	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-4 (bg)	-0.5358	-61	-68	No	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-42D (bg)	-0.4294	-6	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-8.864	-15	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	7.3	9	18	No	7	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-5 (bg)	-0.4179	-28	-68	No	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	HGWA-6 (bg)	-0.1792	-21	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-14	0	3	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-15	-12.58	-34	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-16	2.897	52	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-17	2.005	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-18	21.73	55	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	-2.458	-3	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	-1.375	-12	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-31.44	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-42D (bg)	1.437	1	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-42.44	-9	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	112.8	15	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-5 (bg)	-4.011	-32	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-6 (bg)	-1.024	-16	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-185.6	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-66.16	-68	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.63	117	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	63.57	86	68	Yes	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-18	-30.93	-44	-68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:36 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>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	117	n/a	n/a	80.34	n/a	n/a	0.002475	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	150	n/a	n/a	79.33	n/a	n/a	0.0004556	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	150	n/a	n/a	0	n/a	n/a	0.0004556	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	138	n/a	n/a	83.33	n/a	n/a	0.0008431	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	150	n/a	n/a	92.67	n/a	n/a	0.0004556	NP Inter(NDs)
Chromium (mg/L)	n/a	0.019	n/a	n/a	n/a	n/a	138	n/a	n/a	83.33	n/a	n/a	0.0008431	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	150	n/a	n/a	70	n/a	n/a	0.0004556	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.645	n/a	n/a	n/a	n/a	150	0.7613	0.279	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	n/a	156	n/a	n/a	34.62	n/a	n/a	0.0003349	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	138	n/a	n/a	71.74	n/a	n/a	0.0008431	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	n/a	150	n/a	n/a	18	n/a	n/a	0.0004556	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	96	n/a	n/a	91.67	n/a	n/a	0.007269	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	138	n/a	n/a	84.78	n/a	n/a	0.0008431	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	150	n/a	n/a	98.67	n/a	n/a	0.0004556	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	150	n/a	n/a	98.67	n/a	n/a	0.0004556	NP Inter(NDs)

PLANT HAMMOND AP-2 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		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0019	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.65	5
Fluoride, Total (mg/L)	4		0.96	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.048	0.048
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	HGWC-18	0.187	0.1605	0.038	Yes	21	0.1738	0.02406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05716	0.04884	0.038	Yes	8	0.053	0.003928	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09914	0.08253	0.038	Yes	6	0.09083	0.006047	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-14	0.003	0.00043	0.006	No	15	0.002649	0.0009275	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-15	0.003	0.002	0.006	No	15	0.002933	0.0002582	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-18	0.003	0.0008	0.006	No	15	0.002853	0.000568	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-22	0.003	0.0016	0.006	No	6	0.002767	0.0005715	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	MW-33	0.003	0.00046	0.006	No	4	0.002365	0.00127	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	MW-35	0.003	0.00041	0.006	No	4	0.002328	0.001279	50	None	No	0.0625	NP (normality)
Antimony (mg/L)	MW-37D	0.003	0.00079	0.006	No	4	0.002448	0.001105	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	HGWC-14	0.005929	0.004126	0.01	No	21	0.005028	0.001634	14.29	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-15	0.005	0.0008	0.01	No	21	0.00435	0.001636	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-16	0.005	0.0012	0.01	No	21	0.004186	0.001732	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-17	0.005	0.0012	0.01	No	21	0.00386	0.001856	71.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-18	0.006854	0.004826	0.01	No	21	0.00584	0.001838	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-21D	0.005	0.001	0.01	No	11	0.003863	0.001965	72.73	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-22	0.005	0.005	0.01	No	10	0.004545	0.001439	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-23D	0.005	0.001	0.01	No	10	0.004182	0.001725	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-33	0.0078	0.004057	0.01	No	7	0.005929	0.001576	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-34D	0.007178	-0.001178	0.01	No	4	0.003	0.00184	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-35	0.006646	0.003688	0.01	No	6	0.0054	0.001018	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-37D	0.002705	0.0009647	0.01	No	6	0.003392	0.001821	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-14	0.0228	0.019	2	No	21	0.02429	0.01748	4.762	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-15	0.02752	0.01805	2	No	21	0.02279	0.008587	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-16	0.1118	0.1002	2	No	21	0.106	0.01056	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-17	0.02601	0.02326	2	No	21	0.02464	0.00249	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-18	0.0336	0.029	2	No	21	0.03325	0.01577	4.762	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21D	0.07047	0.04299	2	No	11	0.05673	0.01649	0	None	No	0.01	Param.
Barium (mg/L)	MW-22	0.03312	0.01628	2	No	10	0.0247	0.00944	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.06847	0.05213	2	No	10	0.0603	0.009154	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.02818	0.02154	2	No	7	0.02486	0.002795	0	None	No	0.01	Param.
Barium (mg/L)	MW-34D	0.04782	0.03068	2	No	4	0.03925	0.003775	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.03155	0.02279	2	No	6	0.02717	0.003189	0	None	No	0.01	Param.
Barium (mg/L)	MW-37D	0.1762	0.09717	2	No	6	0.1367	0.02875	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-14	0.0005254	0.0004325	0.004	No	19	0.0004789	0.00007937	10.53	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-17	0.0005	0.000067	0.004	No	19	0.0004534	0.0001396	89.47	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-18	0.003424	0.002783	0.004	No	19	0.003036	0.0007391	5.263	None	x^2	0.01	Param.
Beryllium (mg/L)	MW-22	0.0005	0.000062	0.004	No	10	0.000284	0.0002279	50	None	No	0.011	NP (normality)
Beryllium (mg/L)	MW-33	0.001095	0.0008846	0.004	No	7	0.00099	0.00008869	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-34D	0.000204	0.00001101	0.004	No	4	0.0003038	0.0002293	50	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MW-35	0.000741	0.000339	0.004	No	6	0.00054	0.0001463	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-37D	0.0005	0.00012	0.004	No	6	0.0004367	0.0001551	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	HGWC-14	0.0005	0.0001	0.005	No	21	0.0003032	0.0001944	47.62	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-15	0.002181	0.001494	0.005	No	21	0.001872	0.0006855	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	HGWC-17	0.0005	0.00007	0.005	No	21	0.0004795	0.00009383	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-18	0.002291	0.001648	0.005	No	21	0.00197	0.000583	4.762	None	No	0.01	Param.
Cadmium (mg/L)	MW-22	0.002134	0.001532	0.005	No	10	0.001726	0.0005707	0	None	x^4	0.01	Param.
Cadmium (mg/L)	MW-23D	0.0005615	0.0002617	0.005	No	10	0.000448	0.0001499	50	Kaplan-Meier	x^2	0.01	Param.
Cadmium (mg/L)	MW-33	0.0002151	0.000142	0.005	No	7	0.0001786	0.00003078	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-34D	0.0008342	-0.0001292	0.005	No	4	0.0004875	0.0002006	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MW-35	0.002001	0.0006755	0.005	No	6	0.001338	0.0004825	0	None	No	0.01	Param.
Chromium (mg/L)	HGWC-14	0.005	0.00066	0.1	No	19	0.004531	0.001407	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-15	0.005	0.0012	0.1	No	19	0.004322	0.001616	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-16	0.005	0.0021	0.1	No	19	0.004379	0.001503	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-17	0.005	0.0018	0.1	No	19	0.004381	0.001485	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-18	0.005	0.00063	0.1	No	19	0.004291	0.001683	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-21D	0.005	0.00074	0.1	No	11	0.00421	0.001758	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-22	0.005	0.00075	0.1	No	10	0.004115	0.001868	80	None	No	0.011	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-23D	0.005	0.00086	0.1	No	10	0.004169	0.001752	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-33	0.005	0.00069	0.1	No	7	0.004384	0.001629	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-34D	0.0059	0.005	0.1	No	4	0.005225	0.00045	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	MW-35	0.005	0.00079	0.1	No	6	0.003603	0.002164	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-37D	0.005	0.0014	0.1	No	6	0.004367	0.001456	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	HGWC-14	0.03033	0.0244	0.038	No	21	0.02679	0.006468	4.762	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-15	0.04475	0.02675	0.038	No	21	0.03575	0.01632	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-16	0.005	0.00037	0.038	No	21	0.004555	0.001406	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-17	0.01601	0.01342	0.038	No	21	0.01453	0.002742	0	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-18	0.187	0.1605	0.038	Yes	21	0.1738	0.02406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-21D	0.005	0.005	0.038	No	11	0.004576	0.001405	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-22	0.03809	0.02491	0.038	No	10	0.0315	0.007382	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-23D	0.001172	0.000954	0.038	No	10	0.001063	0.0001222	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05716	0.04884	0.038	Yes	8	0.053	0.003928	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-34D	0.01376	0.002438	0.038	No	4	0.0081	0.002494	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09914	0.08253	0.038	Yes	6	0.09083	0.006047	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-37D	0.005	0.00048	0.038	No	6	0.003663	0.002096	66.67	None	No	0.0155	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	HGWC-14	1.595	1.083	5	No	21	1.339	0.4637	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-15	0.9002	0.4436	5	No	21	0.6719	0.4139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-16	0.9616	0.5157	5	No	21	0.7387	0.4041	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-17	1.027	0.6789	5	No	21	0.853	0.3157	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-18	2.219	1.641	5	No	21	1.93	0.5232	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21D	1.121	0.4539	5	No	11	0.799	0.4529	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.148	0.3216	5	No	10	0.7348	0.4631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	1.113	0.6168	5	No	10	0.865	0.2782	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-33	2.631	0.8717	5	No	7	1.751	0.7406	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-34D	1.755	-0.2986	5	No	4	0.7283	0.4523	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-35	3.35	0.3043	5	No	6	1.827	1.109	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-37D	1.717	-0.009304	5	No	6	0.8538	0.6283	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-14	0.2023	0.07774	4	No	22	0.176	0.1573	22.73	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-15	0.17	0.09	4	No	22	0.1415	0.1193	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-16	0.23	0.059	4	No	22	0.1567	0.1176	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	HGWC-17	0.16	0.062	4	No	22	0.1641	0.2105	31.82	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-18	0.6327	0.3991	4	No	22	0.5159	0.2175	4.545	None	No	0.01	Param.
Fluoride (mg/L)	MW-21D	0.1	0.1	4	No	11	0.1	4.5e-10	90.91	None	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-22	0.13	0.1	4	No	10	0.121	0.05666	80	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-23D	0.14	0.1	4	No	10	0.11	0.0216	80	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-33	0.29	0.1315	4	No	8	0.2088	0.08951	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-34D	0.09507	0.0376	4	No	4	0.07475	0.02106	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-35	0.0912	0.0468	4	No	6	0.07417	0.02053	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-37D	0.093	0.043	4	No	6	0.068	0.0182	0	None	No	0.01	Param.
Lead (mg/L)	HGWC-14	0.001704	0.001392	0.015	No	19	0.001548	0.0002664	5.263	None	No	0.01	Param.
Lead (mg/L)	HGWC-15	0.001	0.0002	0.015	No	19	0.0008118	0.0003753	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-16	0.001	0.000094	0.015	No	19	0.0005802	0.0004558	52.63	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-17	0.001	0.000088	0.015	No	19	0.0006213	0.0004568	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-18	0.001431	0.001157	0.015	No	19	0.001294	0.0002339	5.263	None	No	0.01	Param.
Lead (mg/L)	MW-21D	0.001	0.000048	0.015	No	11	0.0007116	0.000433	63.64	None	No	0.006	NP (NDs)
Lead (mg/L)	MW-22	0.001	0.000094	0.015	No	10	0.000723	0.0004463	70	None	No	0.011	NP (NDs)
Lead (mg/L)	MW-23D	0.001	0.00016	0.015	No	10	0.0008211	0.000378	80	None	No	0.011	NP (NDs)
Lead (mg/L)	MW-33	0.001793	0.001514	0.015	No	7	0.001657	0.0001272	0	None	x^3	0.01	Param.
Lead (mg/L)	MW-34D	0.001	0.00087	0.015	No	4	0.0009675	0.000065	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	MW-35	0.0009972	0.0001828	0.015	No	6	0.0007267	0.0003393	33.33	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MW-37D	0.001254	-0.000294	0.015	No	6	0.000862	0.000564	50	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	HGWC-15	0.00947	0.002331	0.048	No	21	0.01029	0.009755	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	HGWC-16	0.0042	0.0029	0.048	No	21	0.004043	0.002602	4.762	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	HGWC-17	0.015	0.0011	0.048	No	21	0.007745	0.00709	47.62	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-18	0.01439	0.01219	0.048	No	21	0.01329	0.001993	0	None	No	0.01	Param.
Lithium (mg/L)	MW-21D	0.02521	0.02133	0.048	No	11	0.02327	0.002328	0	None	No	0.01	Param.
Lithium (mg/L)	MW-22	0.0015	0.0011	0.048	No	10	0.00131	0.0002726	0	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-23D	0.002642	0.002158	0.048	No	10	0.0024	0.0002708	0	None	No	0.01	Param.
Lithium (mg/L)	MW-33	0.001162	0.0008952	0.048	No	7	0.001029	0.0001123	0	None	No	0.01	Param.
Lithium (mg/L)	MW-34D	0.003048	0.0001522	0.048	No	4	0.0016	0.0006377	0	None	No	0.01	Param.
Lithium (mg/L)	MW-35	0.004694	0.003473	0.048	No	6	0.004083	0.0004446	0	None	No	0.01	Param.
Lithium (mg/L)	MW-37D	0.03755	0.02812	0.048	No	6	0.03283	0.00343	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-18	0.0002	0.00006	0.002	No	13	0.00015	0.00006683	61.54	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-15	0.01	0.0007	0.1	No	19	0.009511	0.002134	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-21D	0.03102	0.01654	0.1	No	11	0.02427	0.0101	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-22	0.01	0.01	0.1	No	10	0.009013	0.003121	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.005029	0.002108	0.1	No	10	0.00368	0.002326	10	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-37D	0.0228	0.005969	0.1	No	6	0.01438	0.006125	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-14	0.01256	0.006717	0.05	No	21	0.009639	0.005295	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-15	0.005	0.0041	0.05	No	21	0.004386	0.001446	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-16	0.005	0.000089	0.05	No	21	0.004766	0.001072	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-17	0.005	0.0023	0.05	No	21	0.004466	0.001385	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-18	0.03229	0.01667	0.05	No	21	0.02448	0.01416	4.762	None	No	0.01	Param.
Selenium (mg/L)	MW-22	0.005	0.005	0.05	No	10	0.0047	0.0009487	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	MW-33	0.03151	0.00655	0.05	No	7	0.01811	0.01199	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	MW-34D	0.005	0.0025	0.05	No	4	0.004375	0.00125	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	MW-35	0.02994	0.006285	0.05	No	6	0.01655	0.01042	0	None	x^(1/3)	0.01	Param.
Thallium (mg/L)	HGWC-14	0.0003	0.00027	0.002	No	21	0.0002936	0.00003129	0	None	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-17	0.001	0.00012	0.002	No	21	0.0007048	0.0004279	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-18	0.001	0.00016	0.002	No	21	0.0005252	0.0004218	42.86	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-33	0.0003547	0.0002389	0.002	No	7	0.0002957	0.00005094	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	MW-34D	0.001	0.00015	0.002	No	4	0.0007875	0.000425	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	MW-35	0.001	0.00013	0.002	No	6	0.000855	0.0003552	83.33	None	No	0.0155	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:57 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>
Cobalt (mg/L)	HGWC-18	-0.008288	-88	-87	Yes	21	0	n/a	n/a	0.01	NP

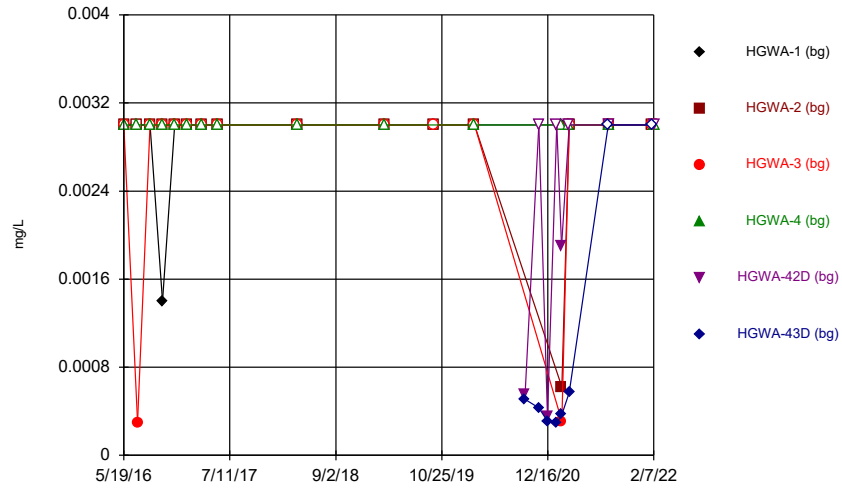
Appendix IV Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-1 (bg)	0	18	87	No	21	95.24	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-2 (bg)	-0.0008265	-47	-87	No	21	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-4 (bg)	0	-81	-87	No	21	71.43	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-42D (bg)	0	3	21	No	8	87.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-43D (bg)	0	0	21	No	8	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-44D (bg)	0	0	21	No	8	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-5 (bg)	0	-14	-87	No	21	23.81	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-6 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.008288	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-33	-0.001496	-2	-21	No	8	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-35	0.001103	1	14	No	6	0	n/a	n/a	0.01	NP

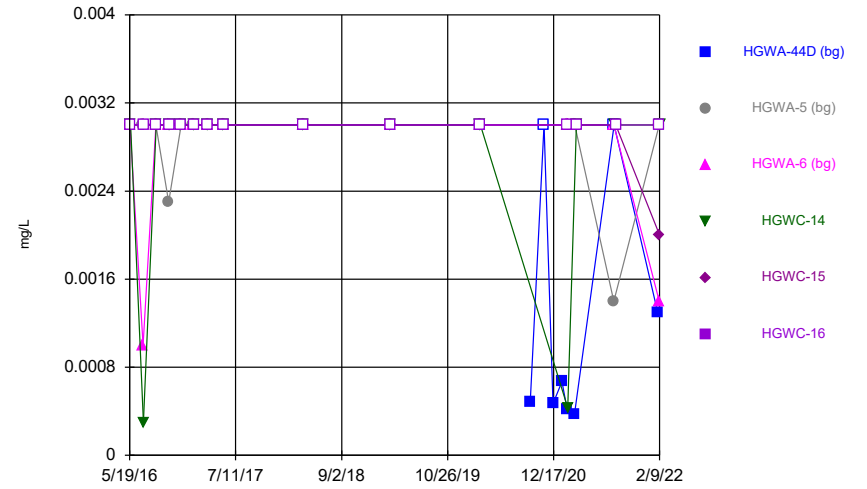
FIGURE A.

Time Series



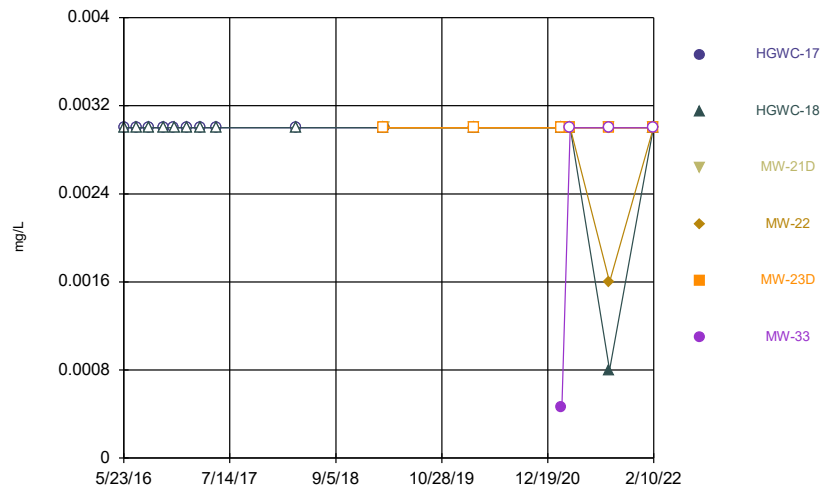
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



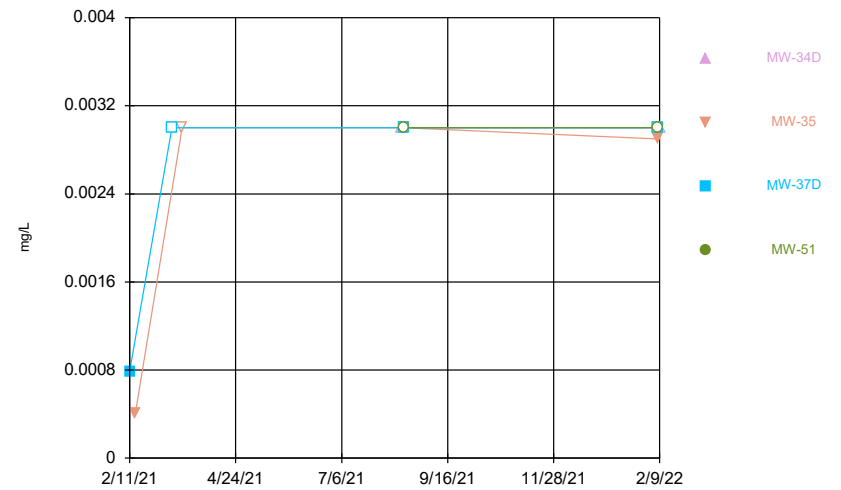
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Time Series



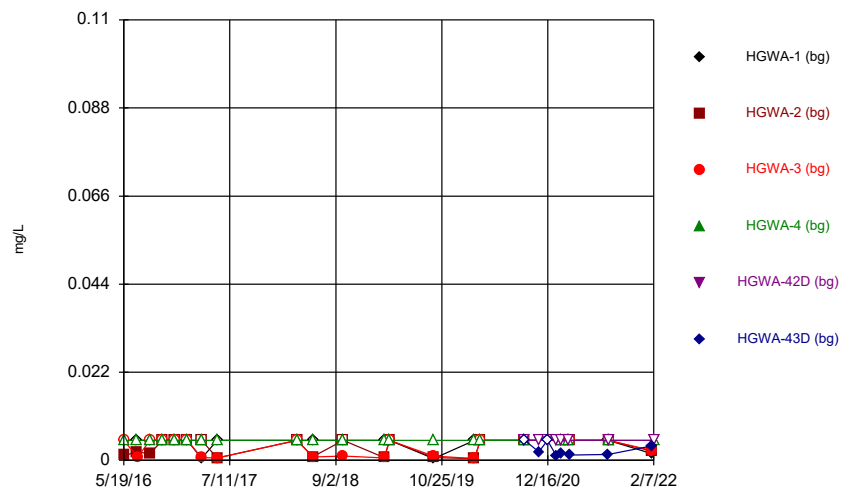
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Time Series



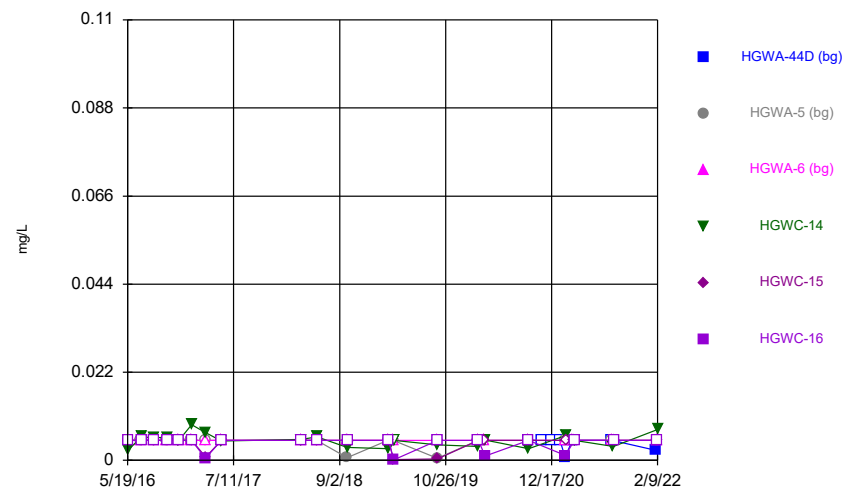
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Time Series



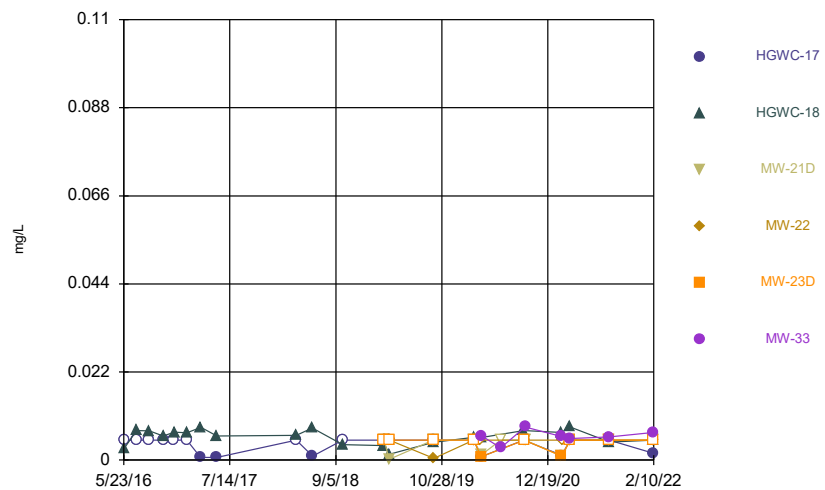
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Time Series



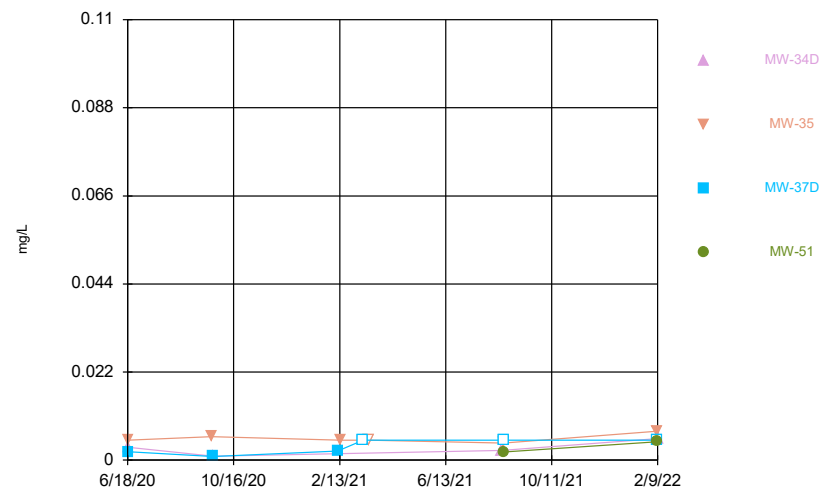
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Time Series



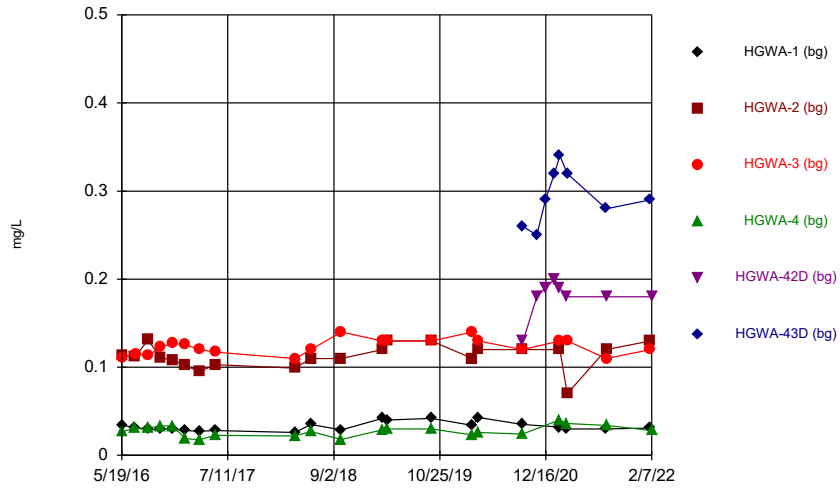
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



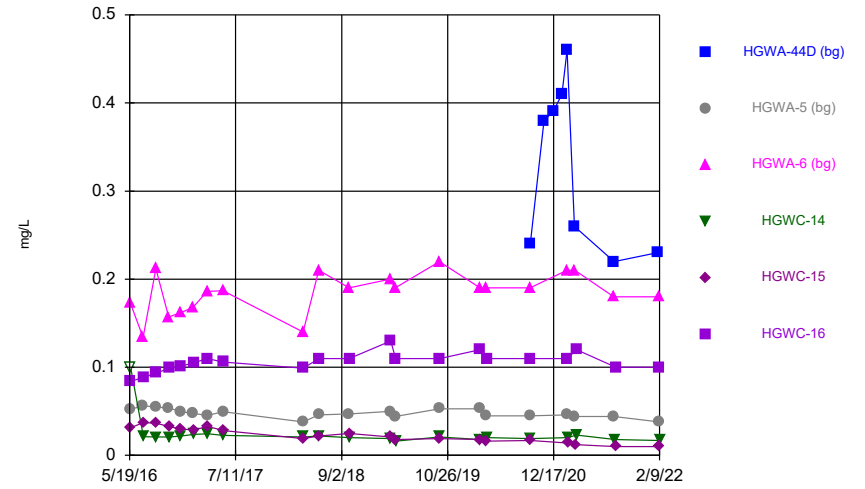
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



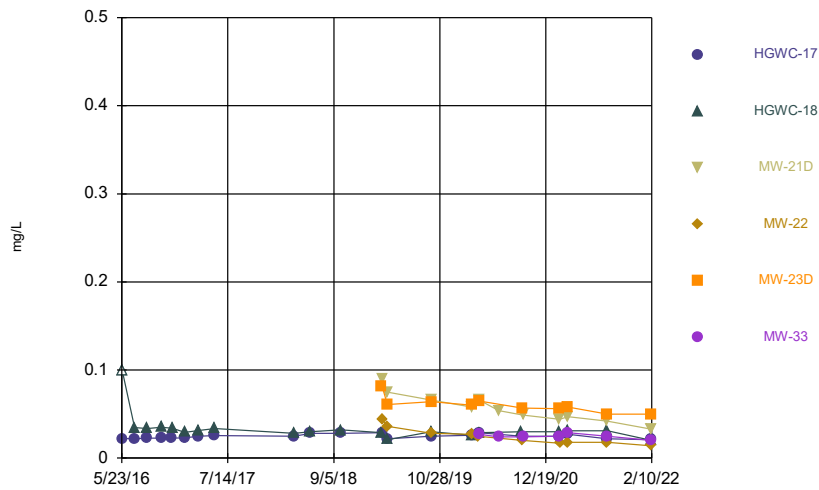
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



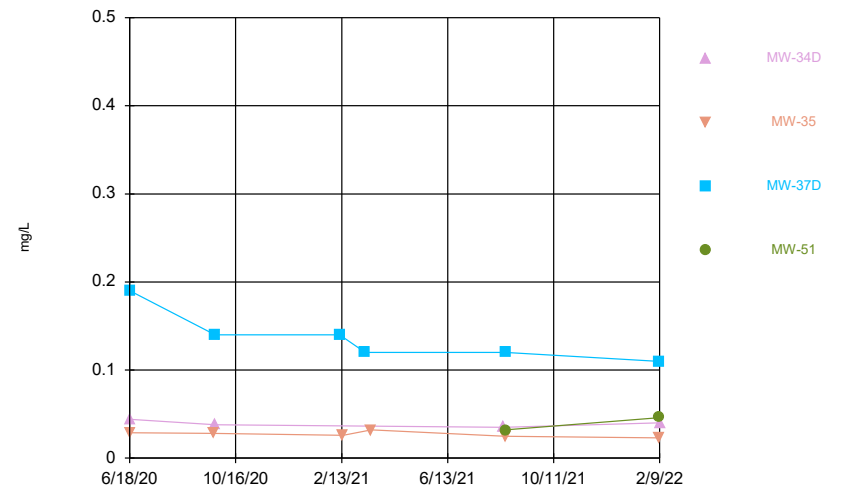
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



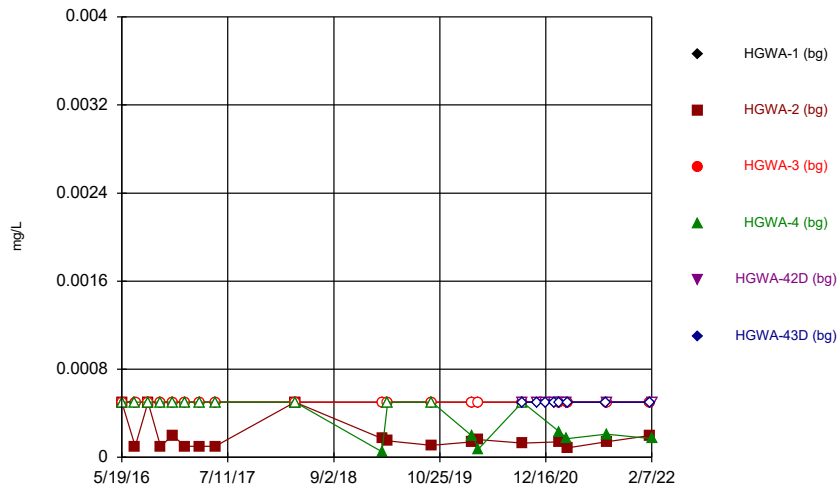
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Time Series



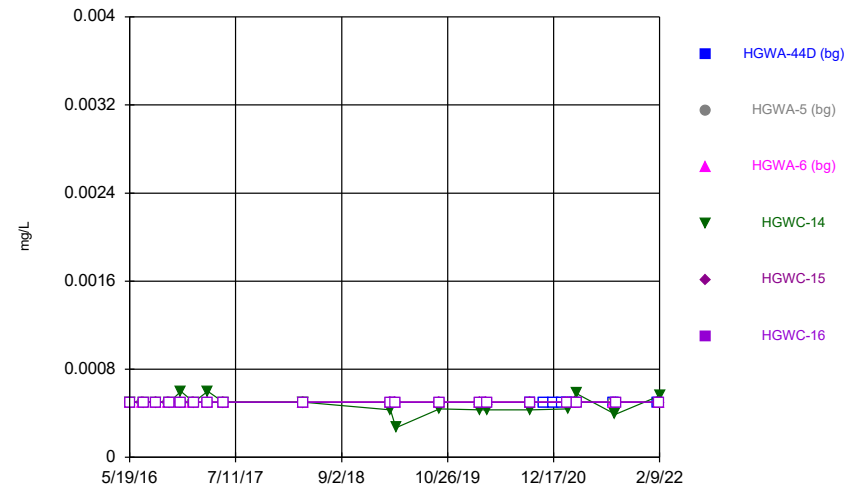
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Time Series



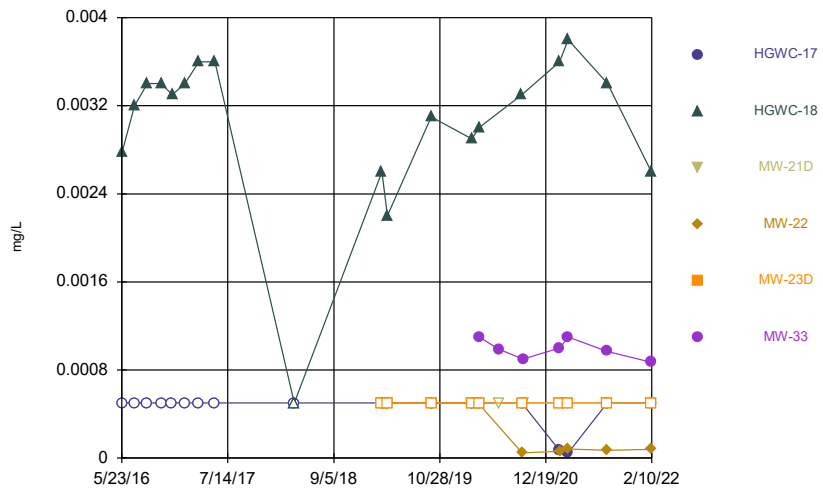
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



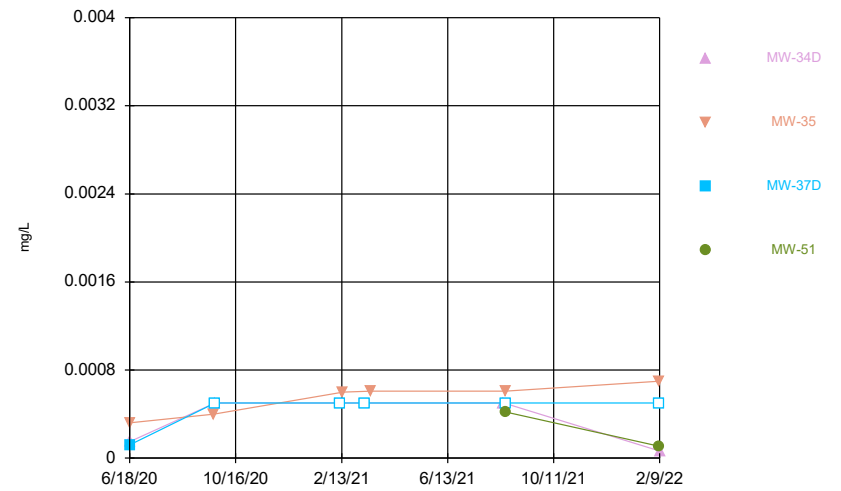
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Time Series



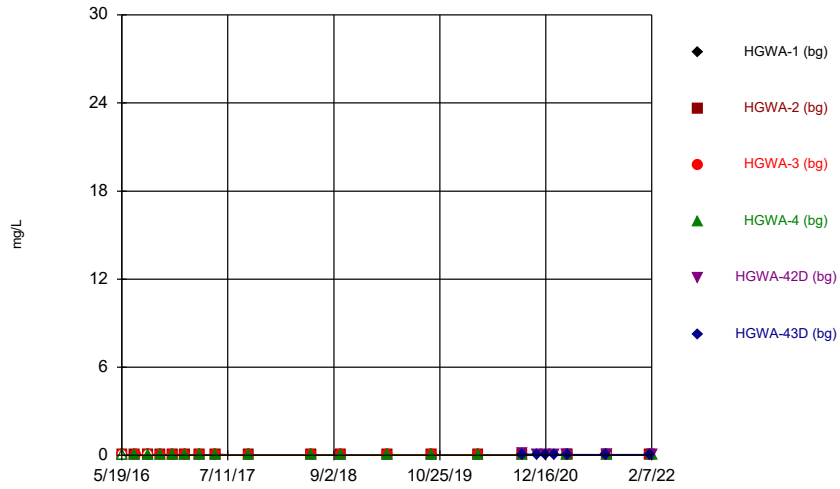
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Time Series



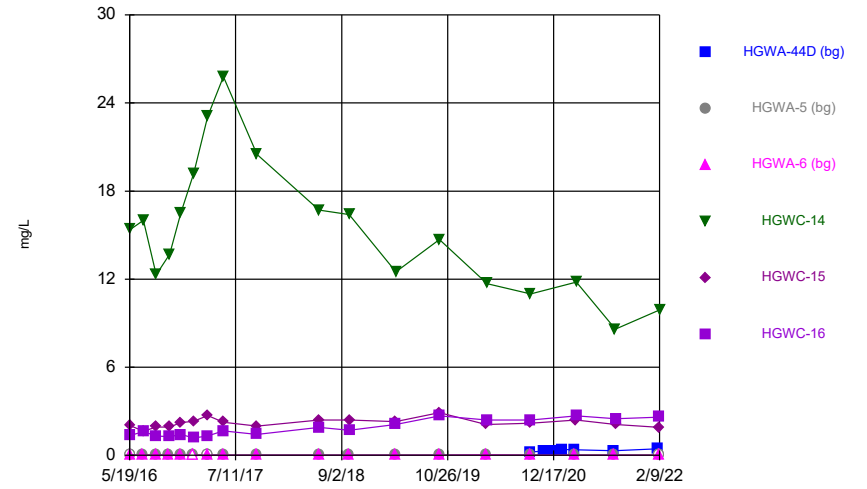
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Time Series



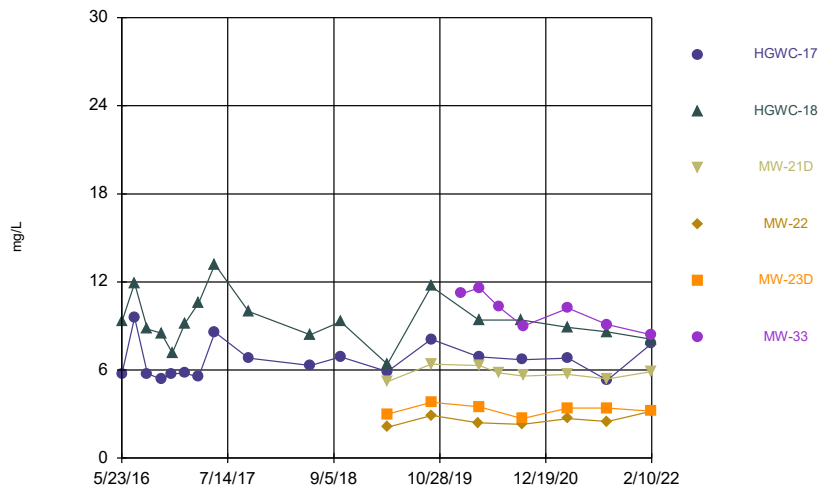
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Time Series



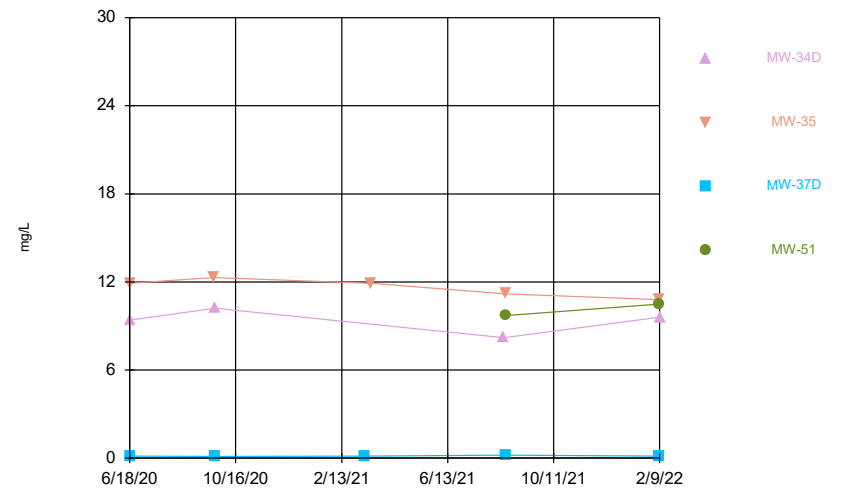
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Time Series



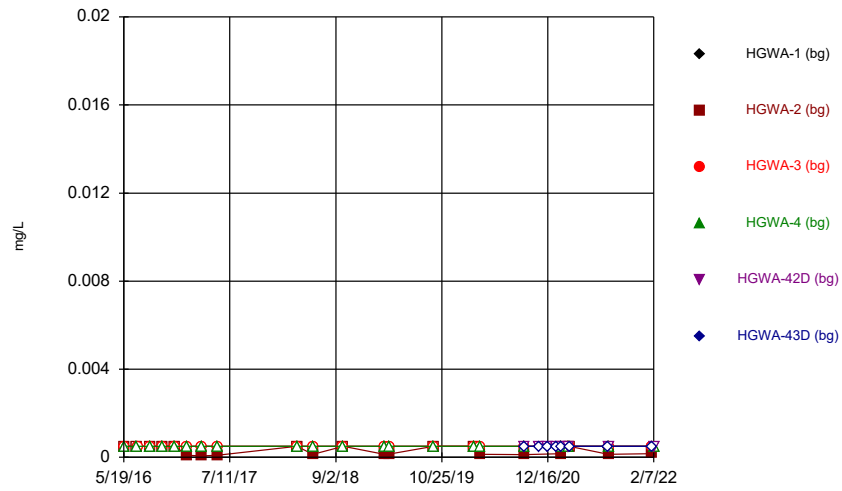
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Time Series



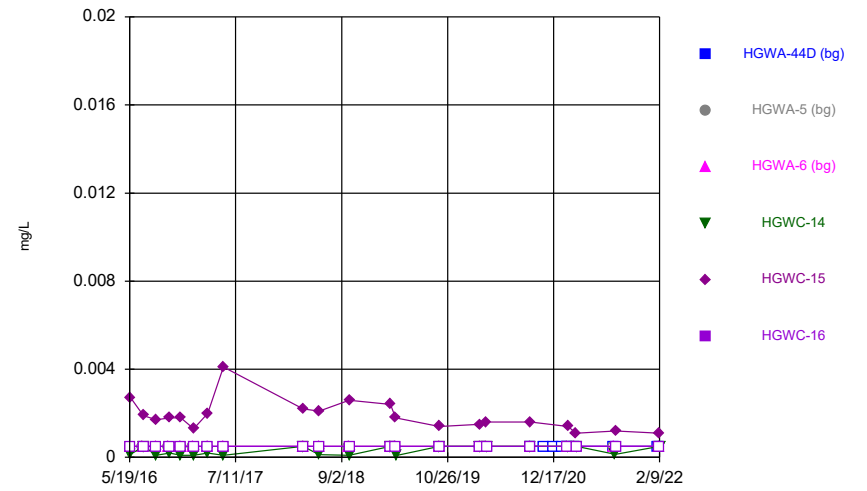
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Time Series



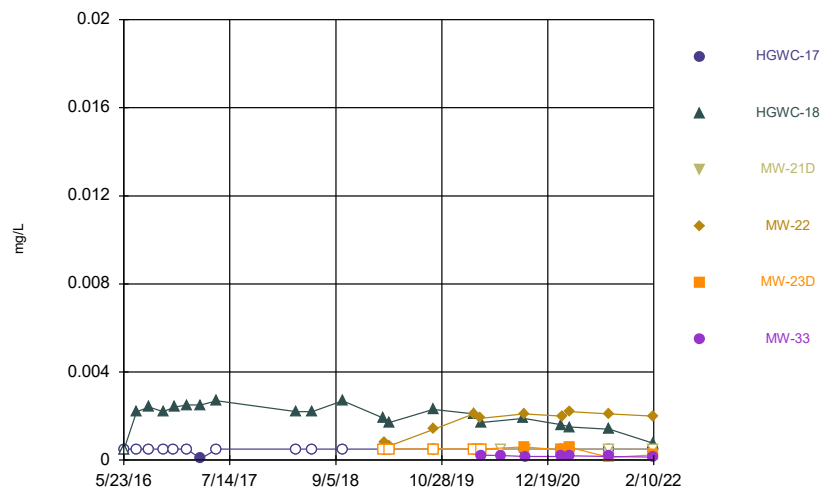
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



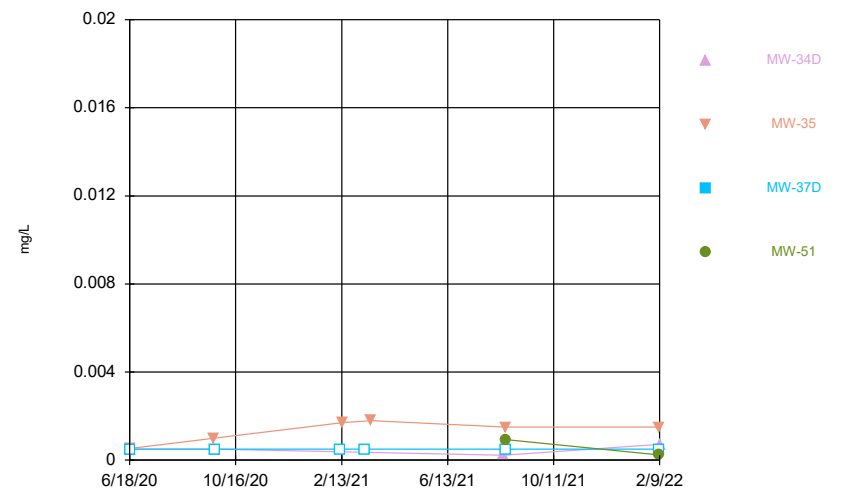
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Time Series



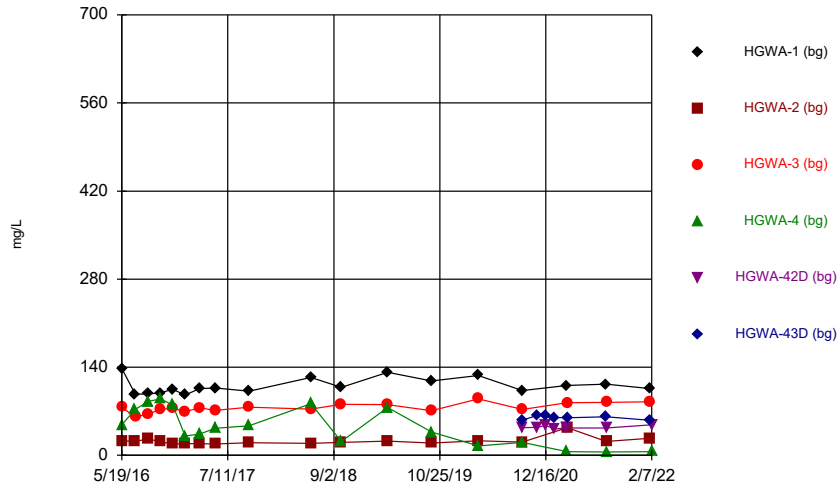
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Time Series



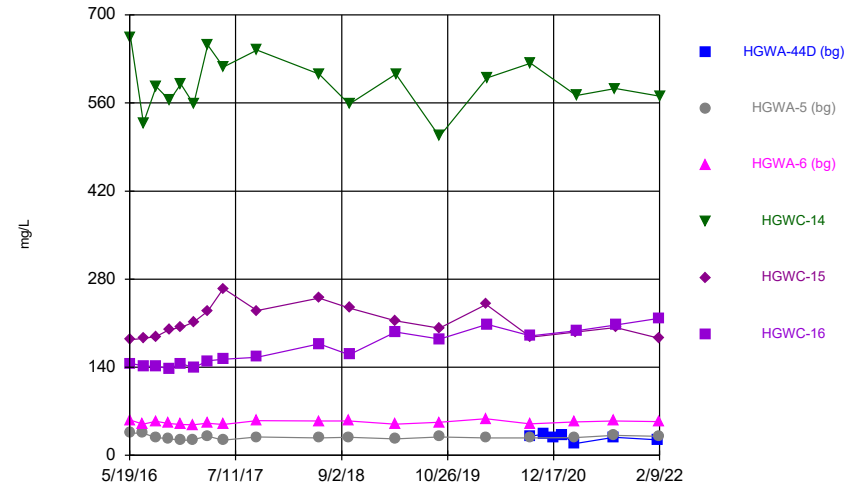
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Time Series



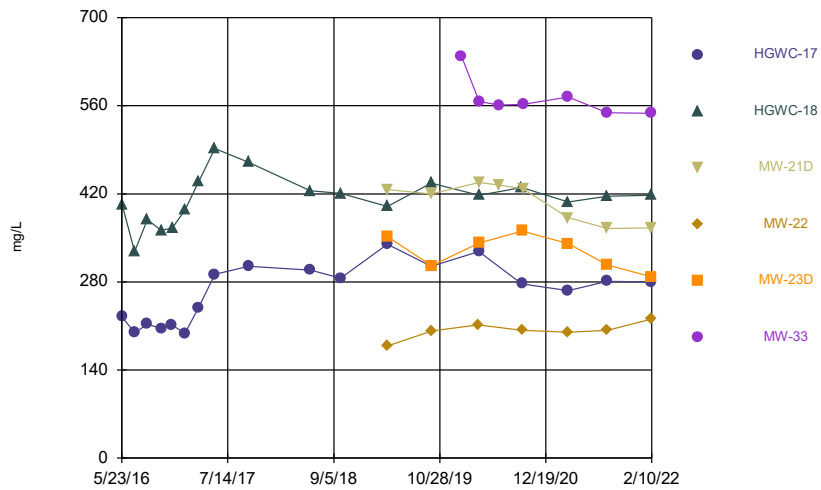
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



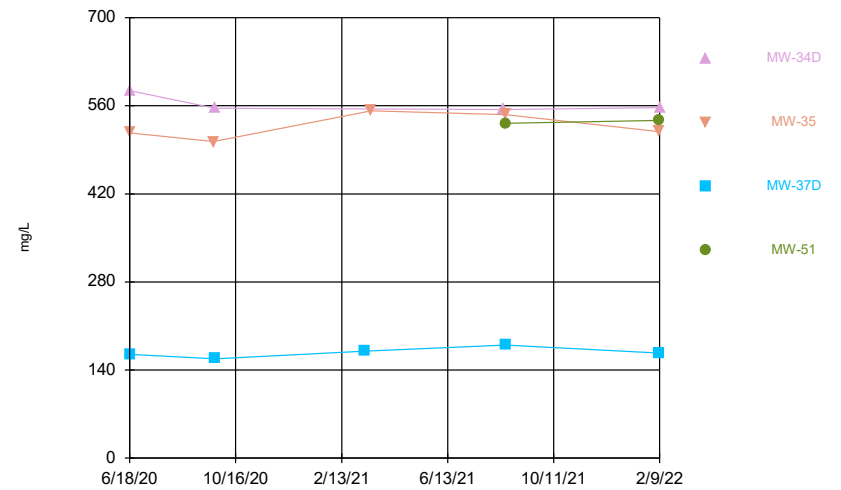
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



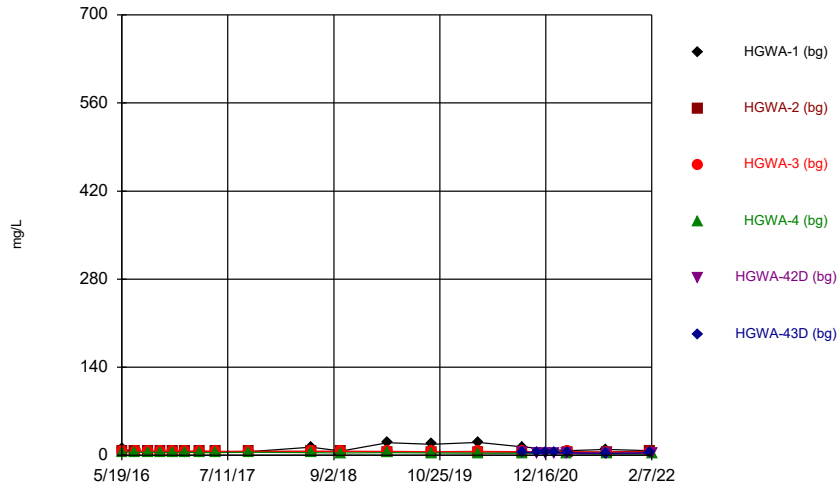
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



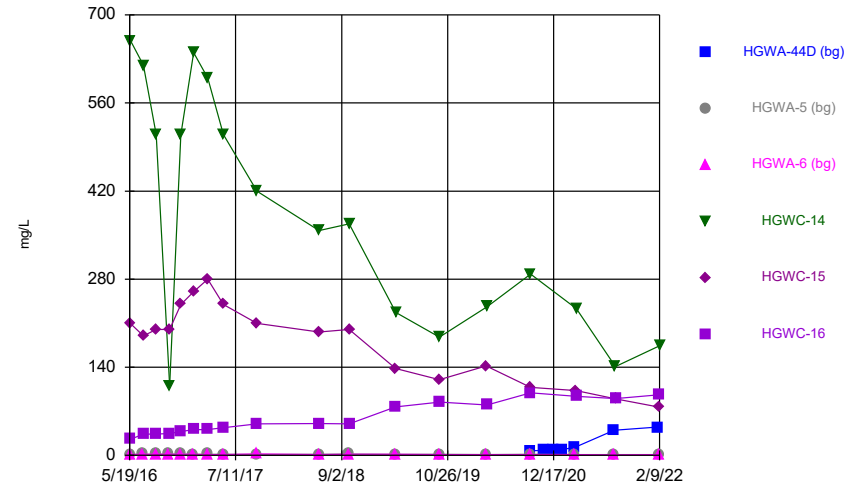
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



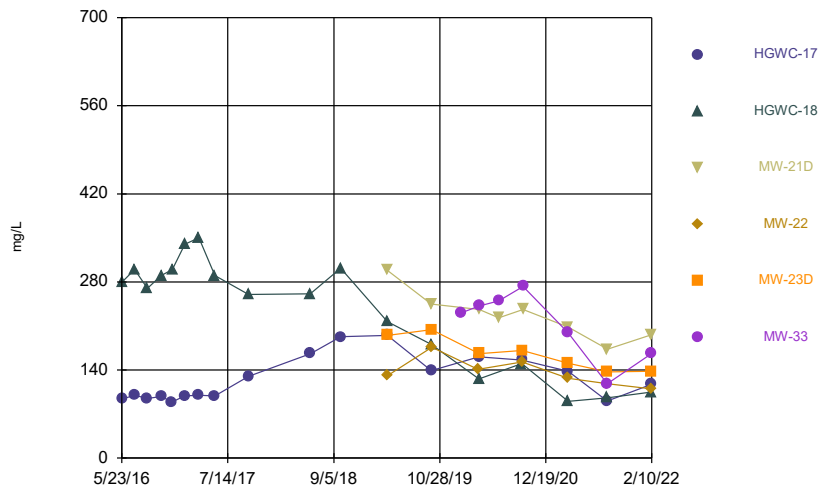
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



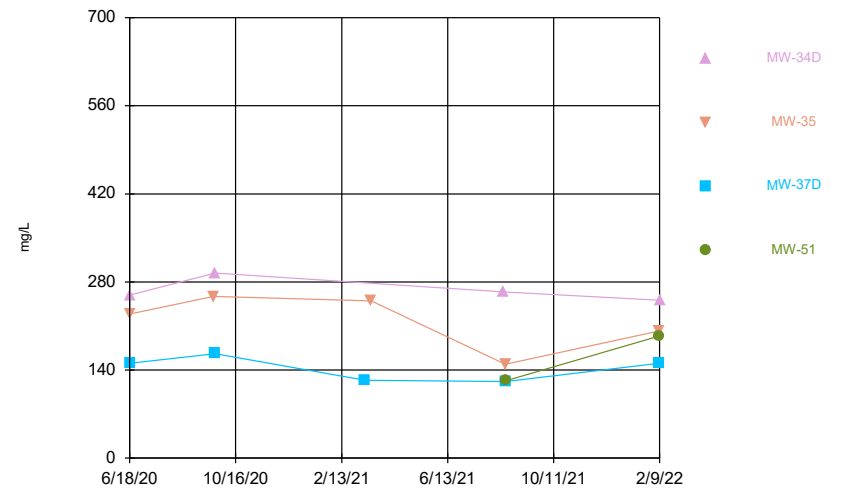
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Time Series



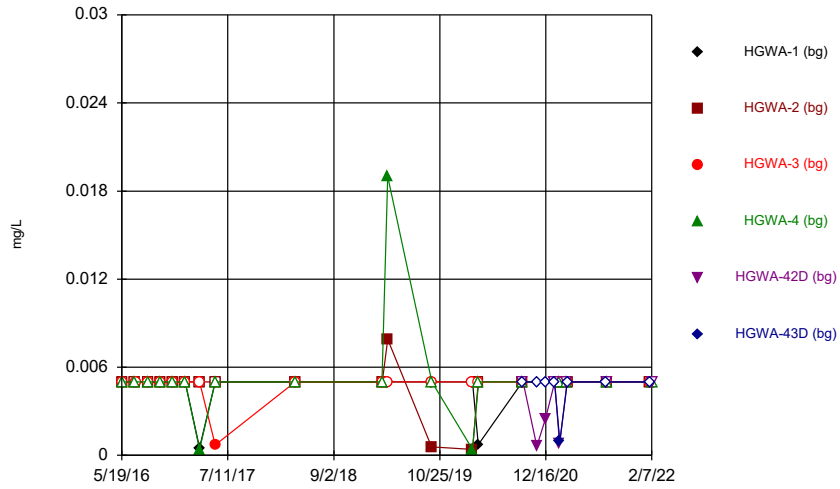
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Time Series



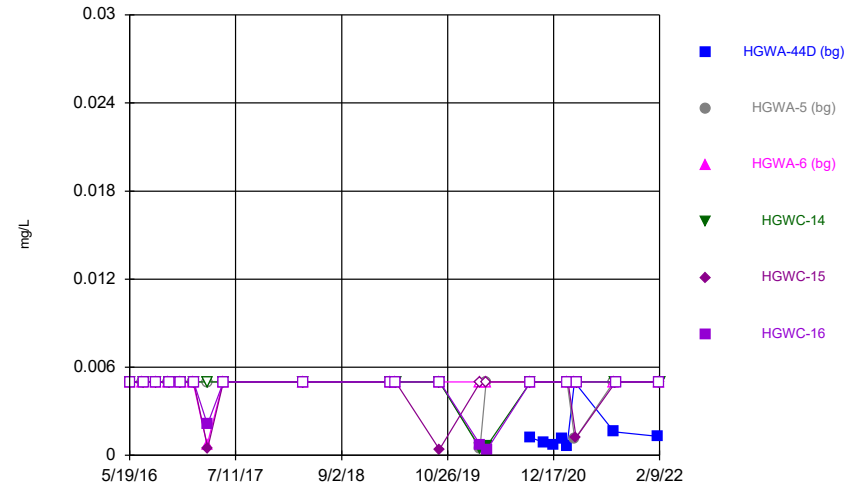
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Time Series



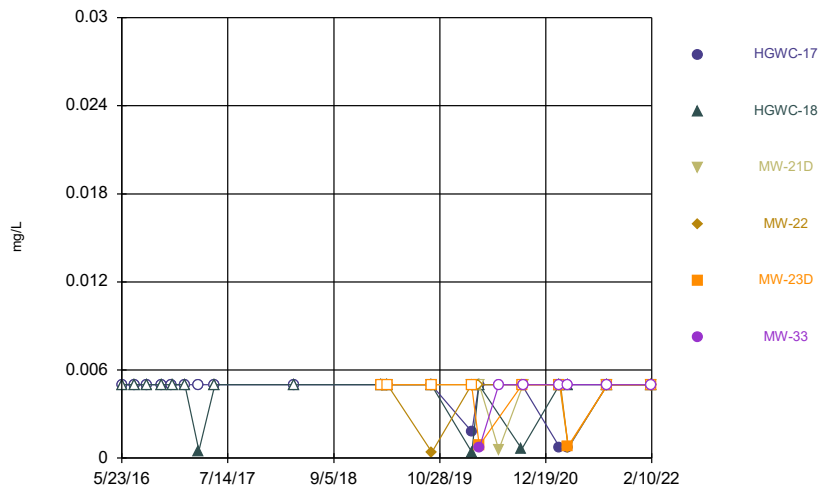
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Time Series



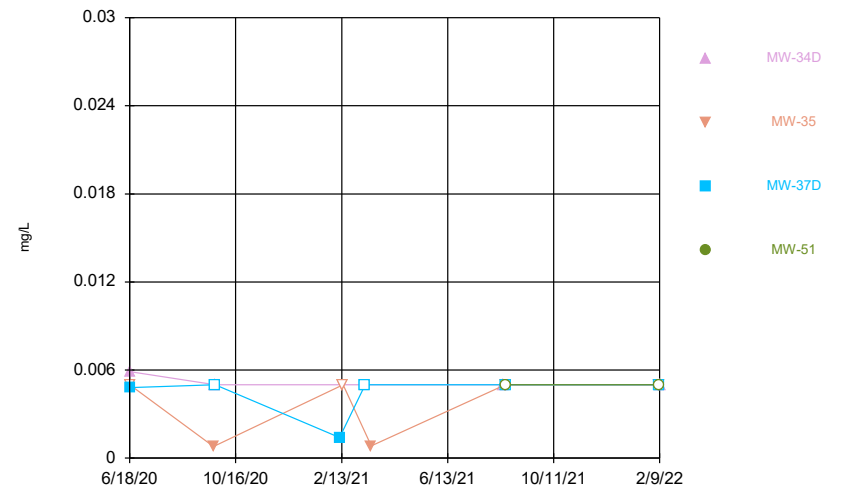
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Time Series



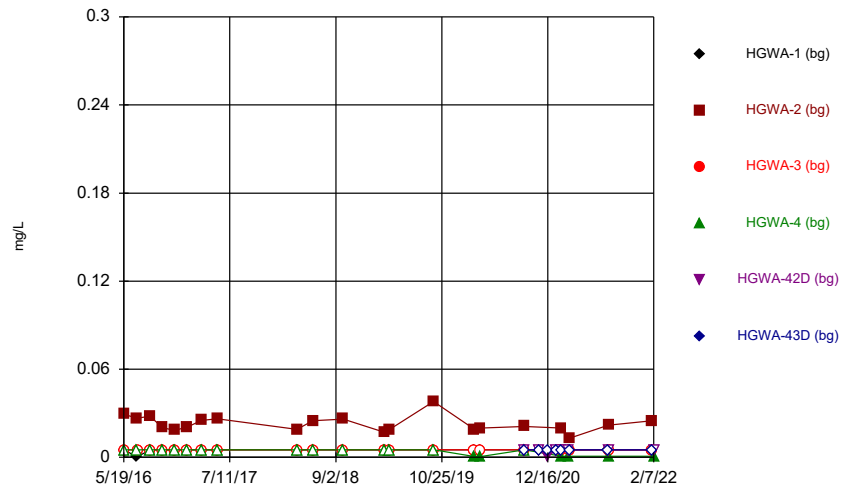
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



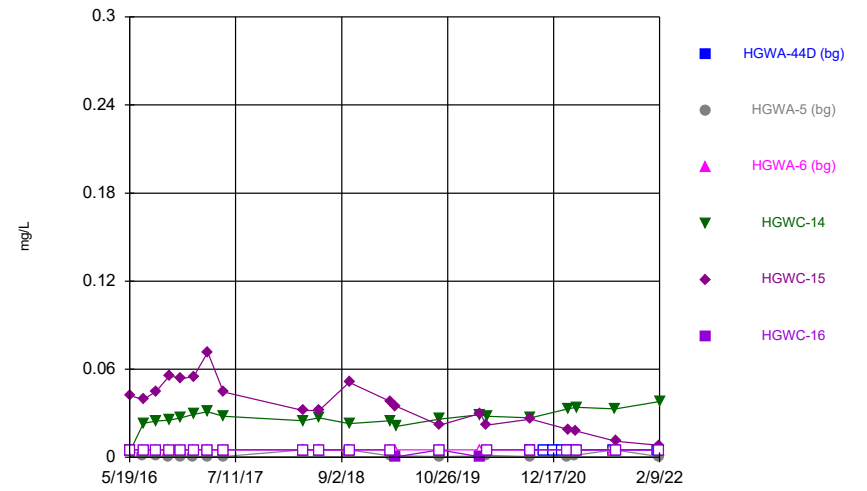
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Time Series



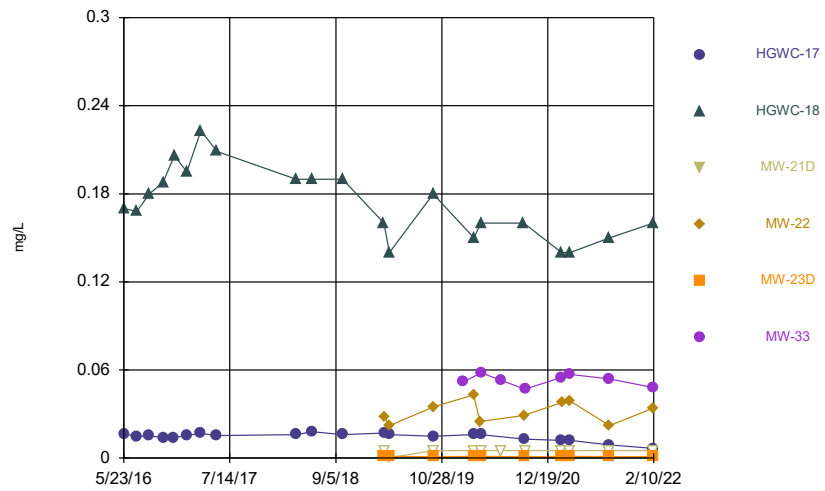
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



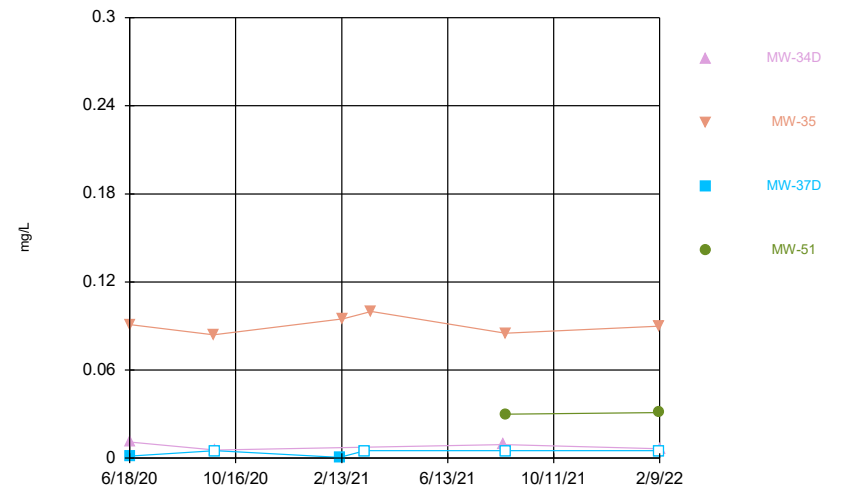
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Time Series



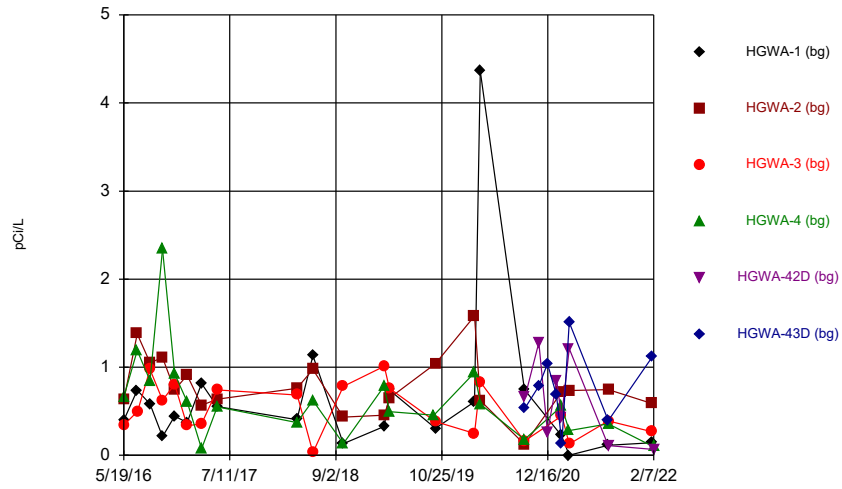
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



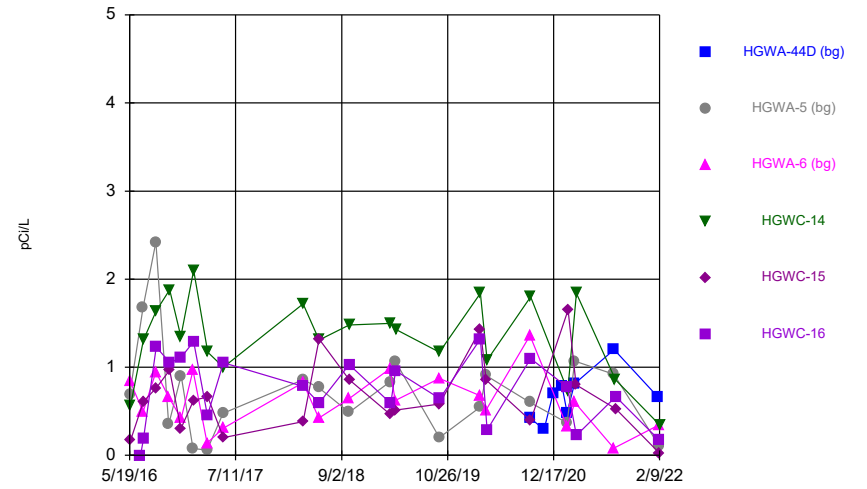
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Time Series



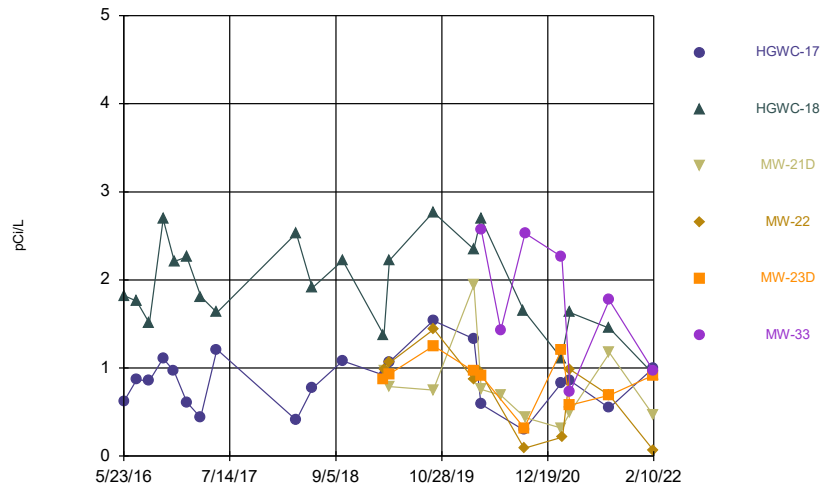
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



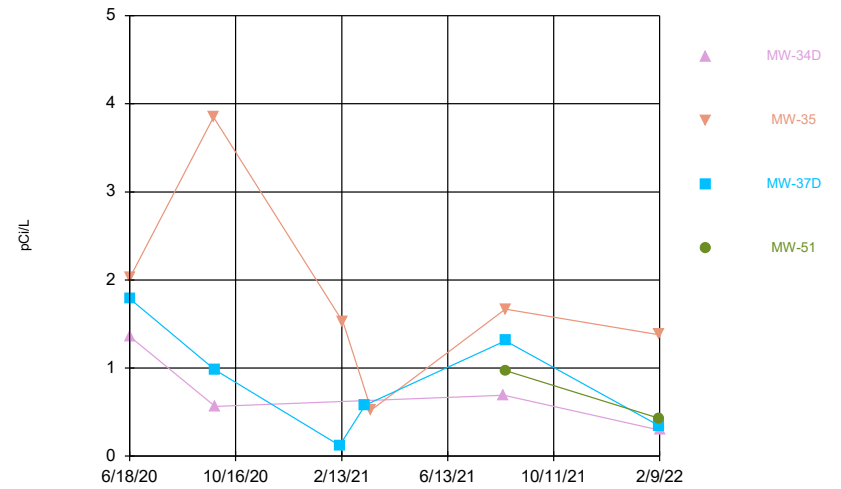
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



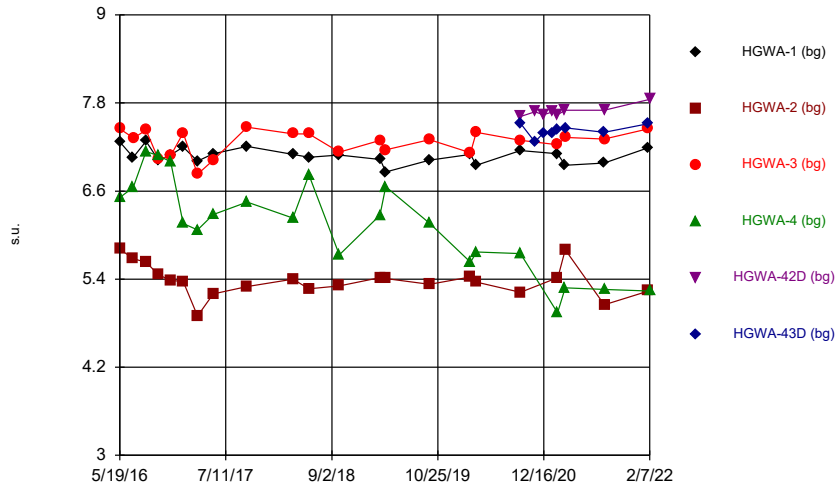
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Time Series



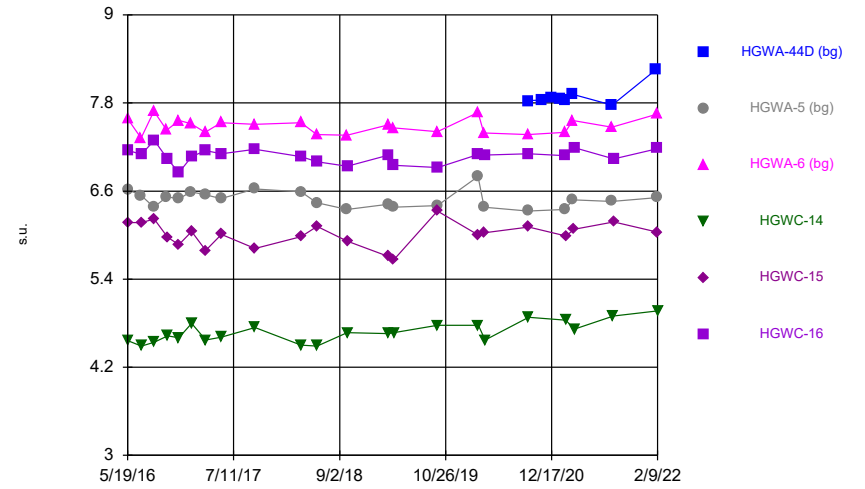
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Time Series



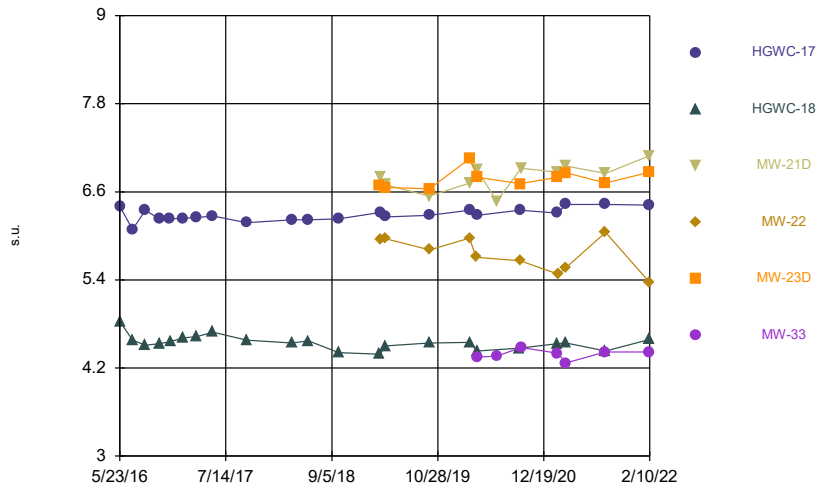
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



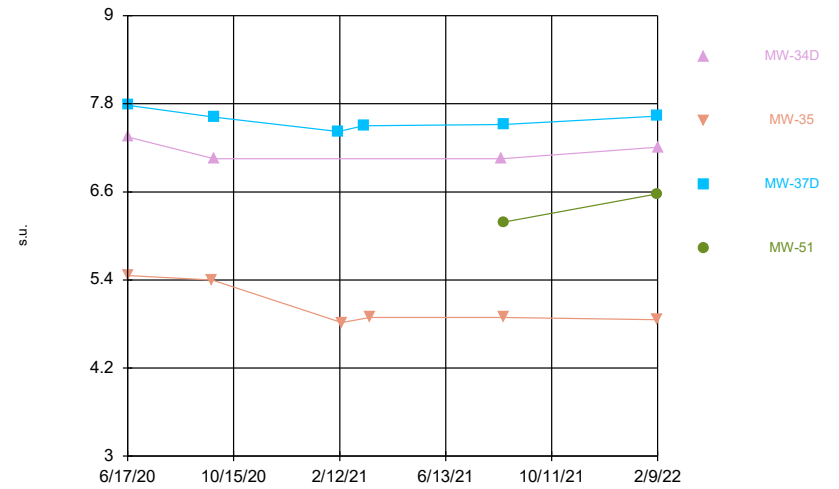
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



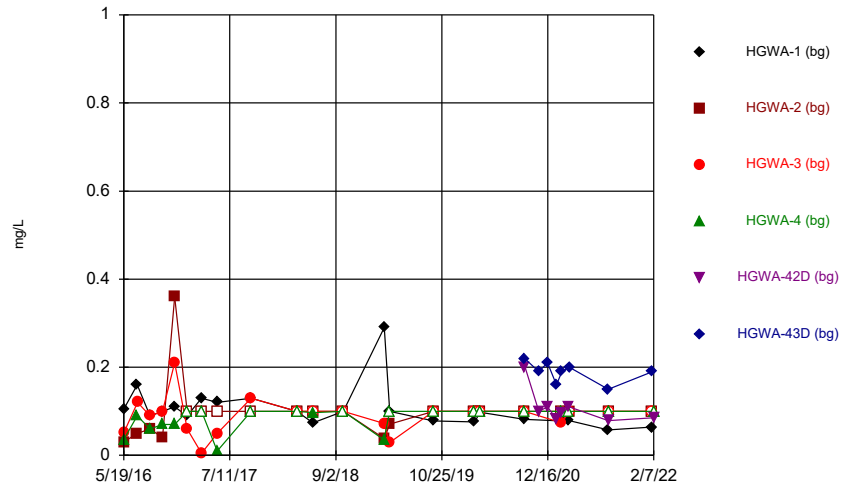
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Time Series



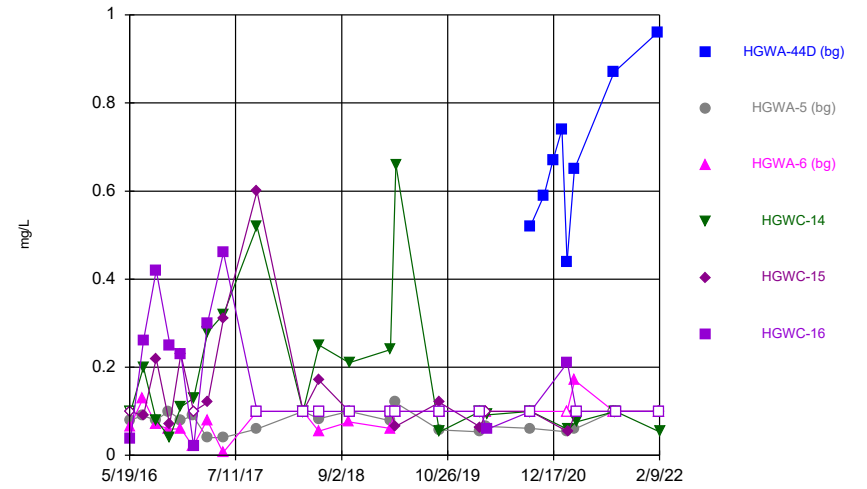
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Time Series



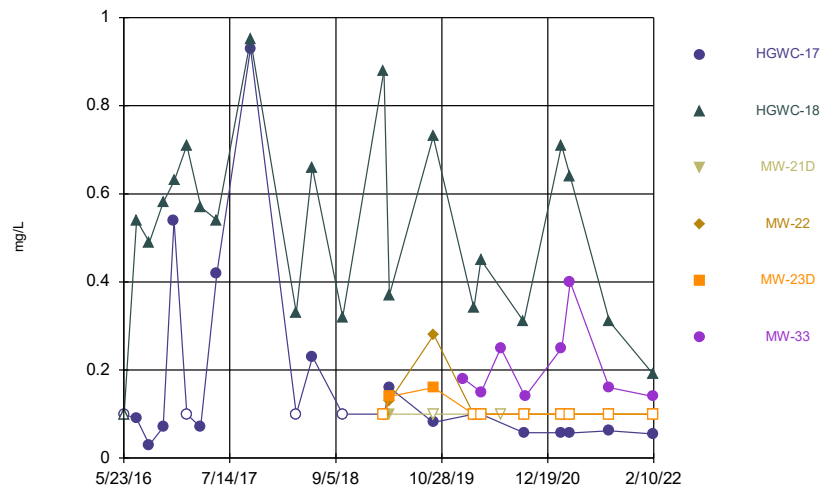
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



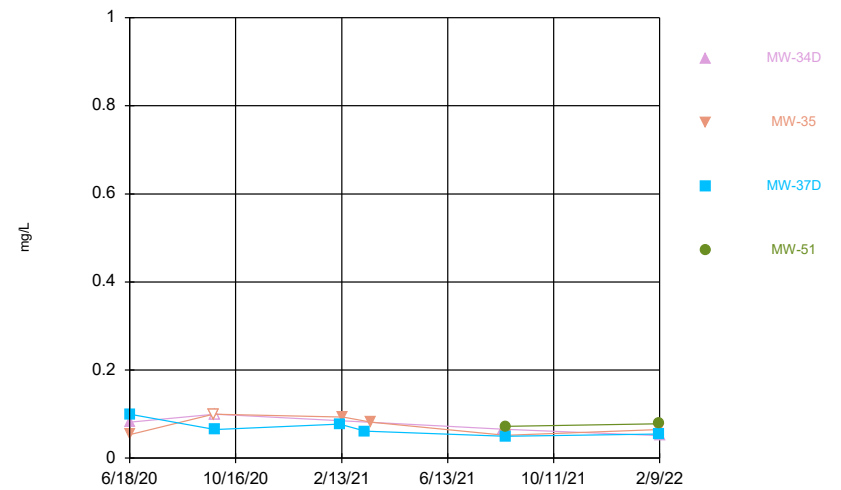
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



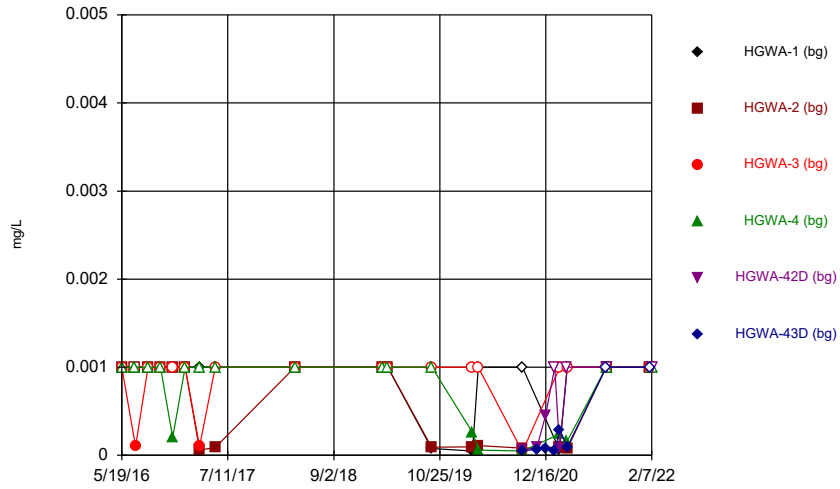
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Time Series



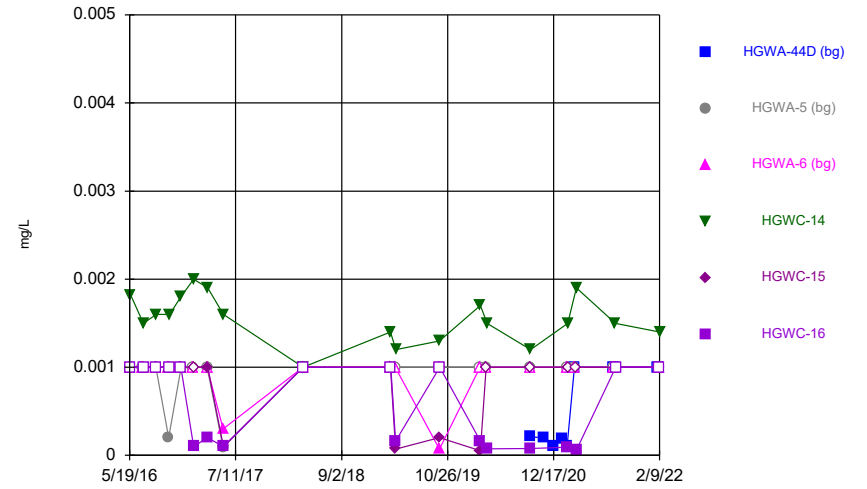
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Time Series



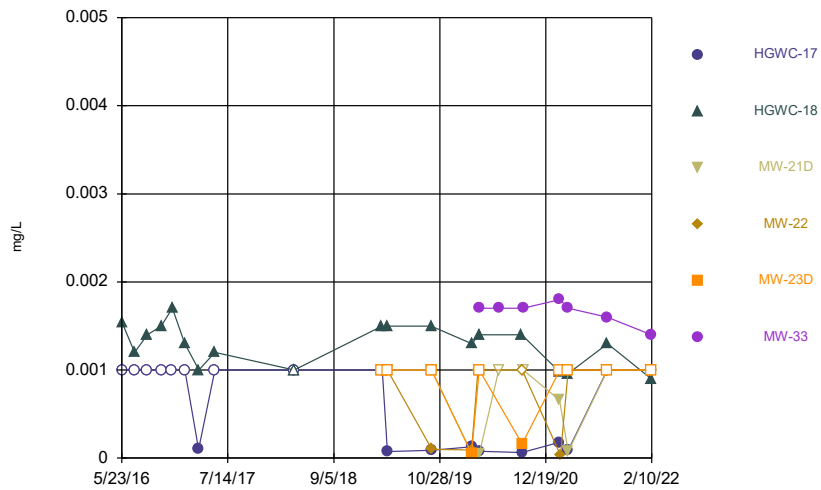
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



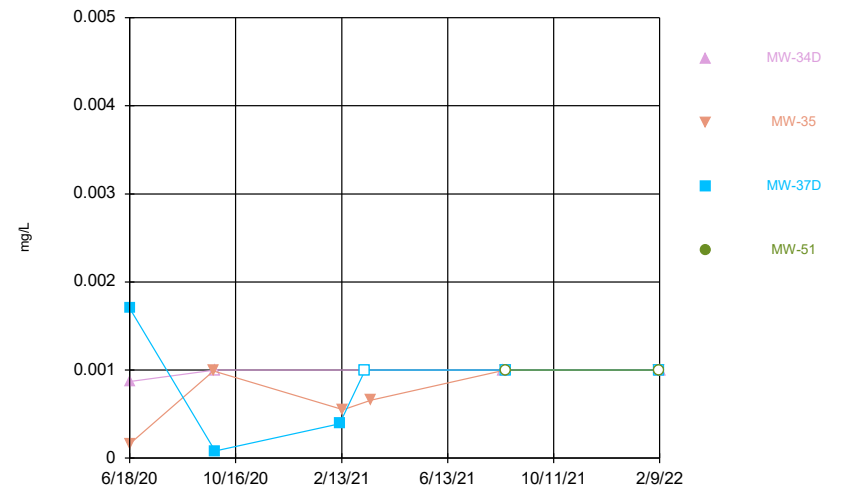
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



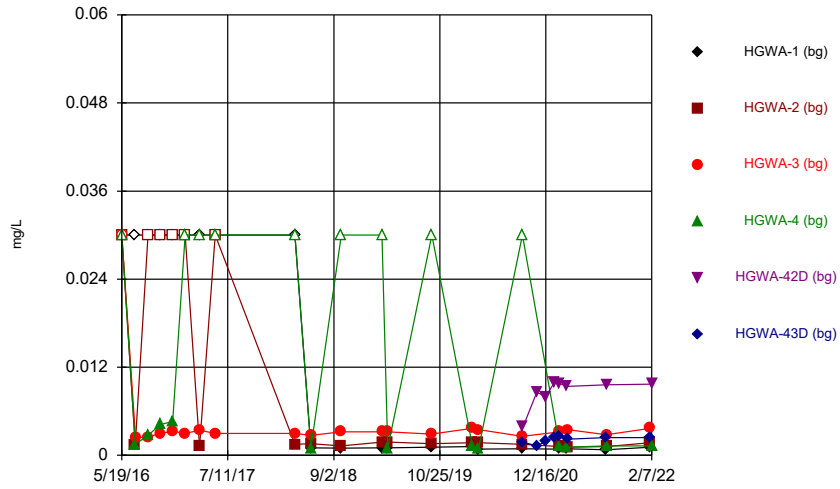
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



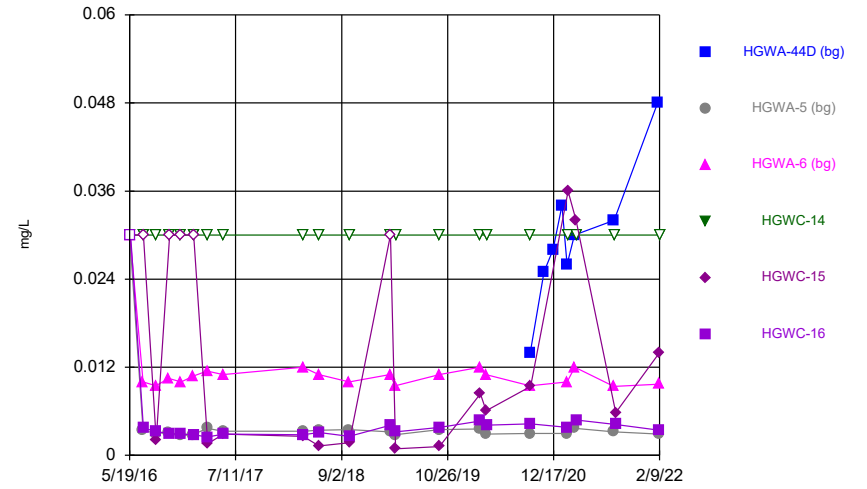
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



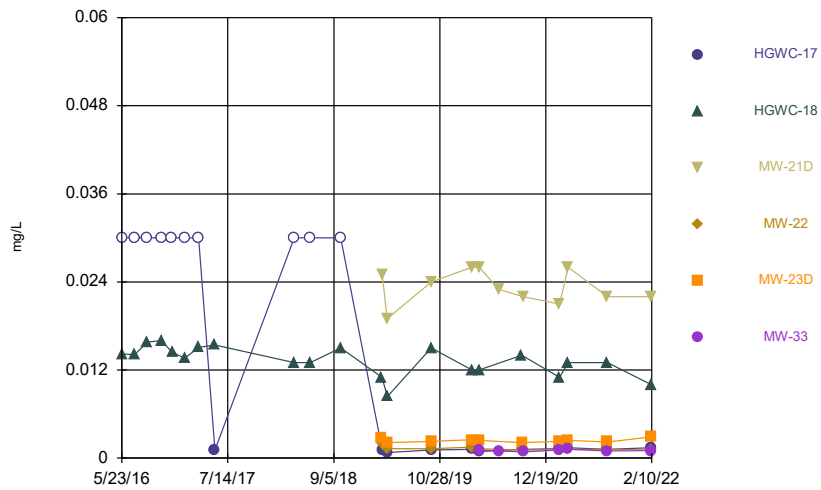
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Time Series



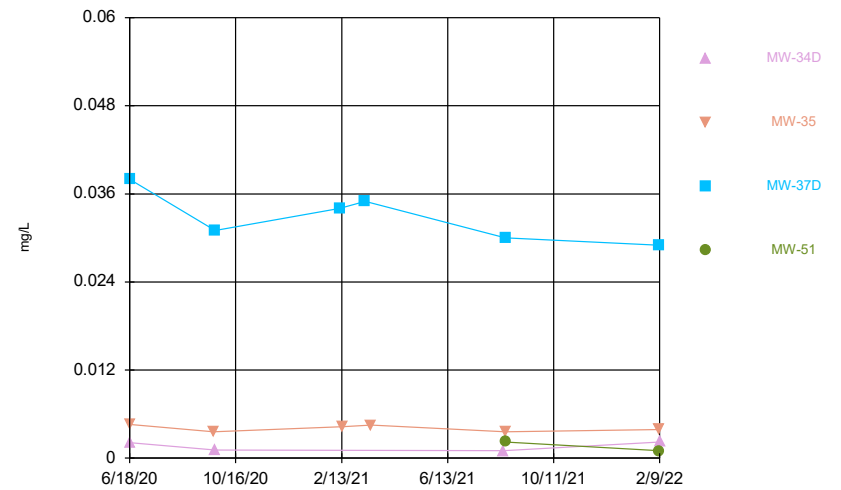
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Time Series



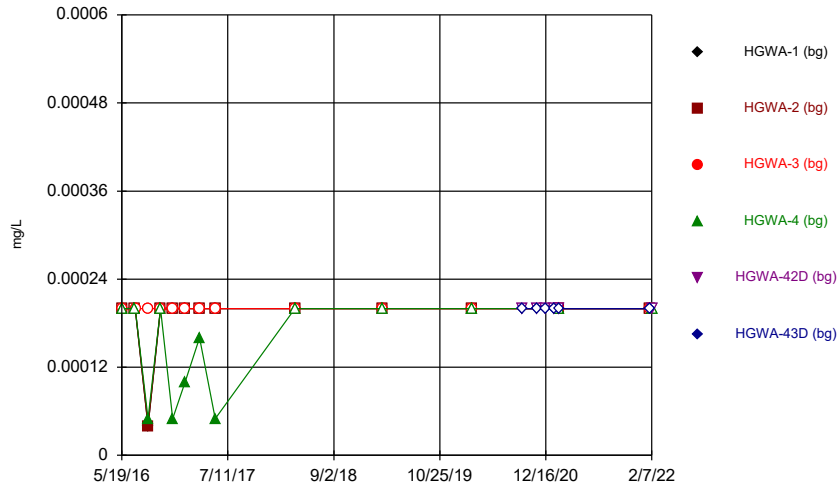
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Time Series



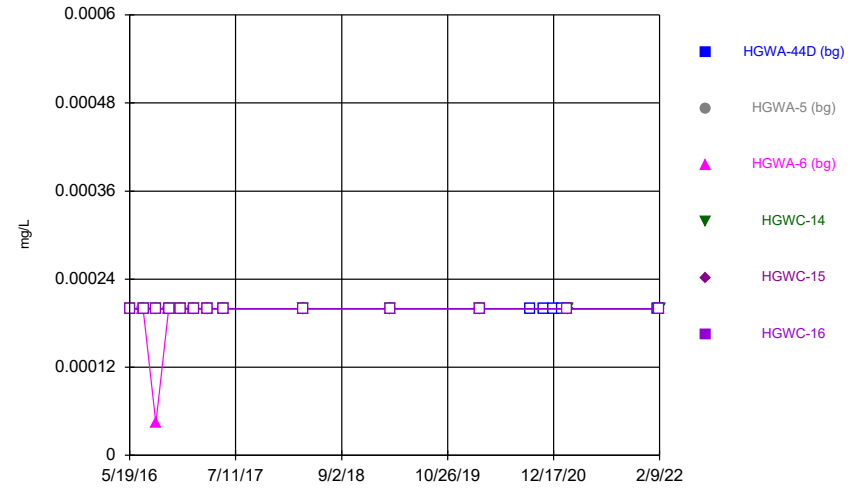
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Time Series



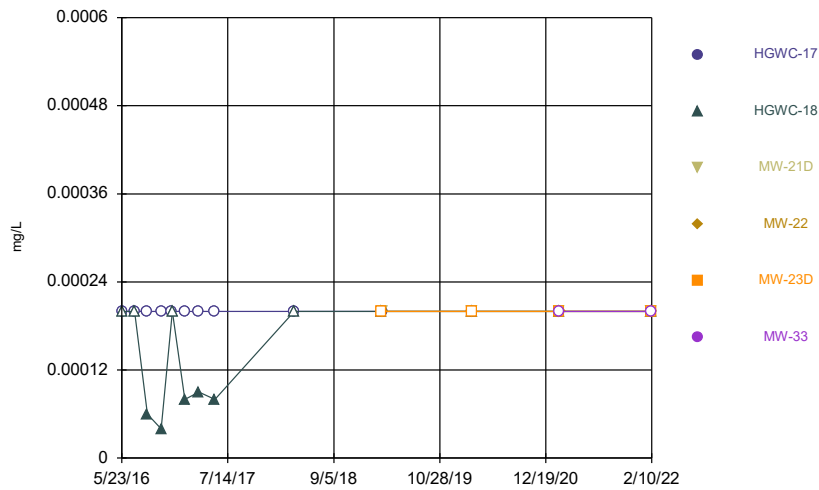
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



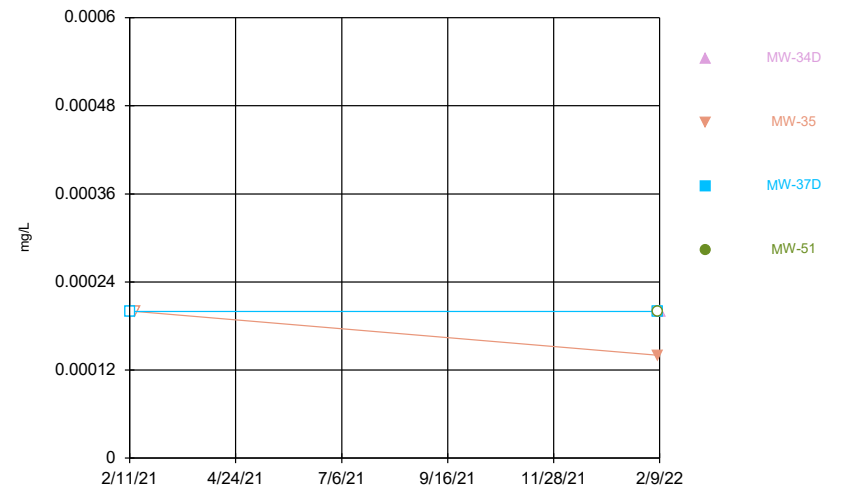
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Time Series



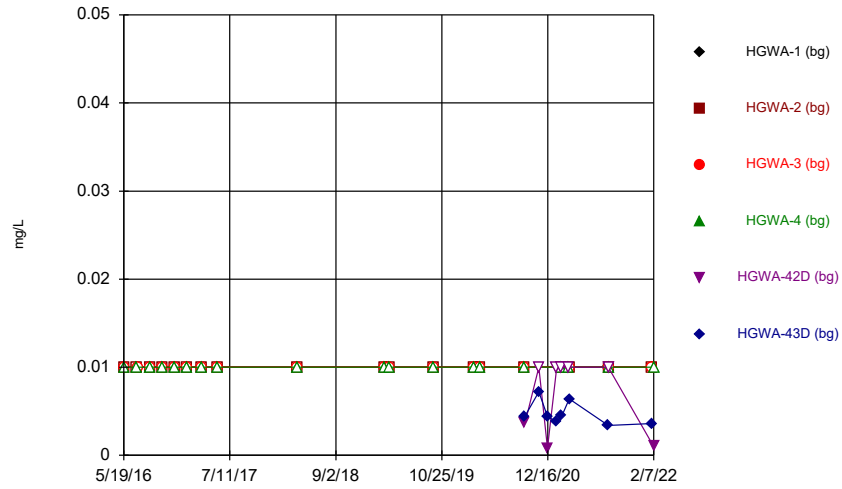
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Time Series



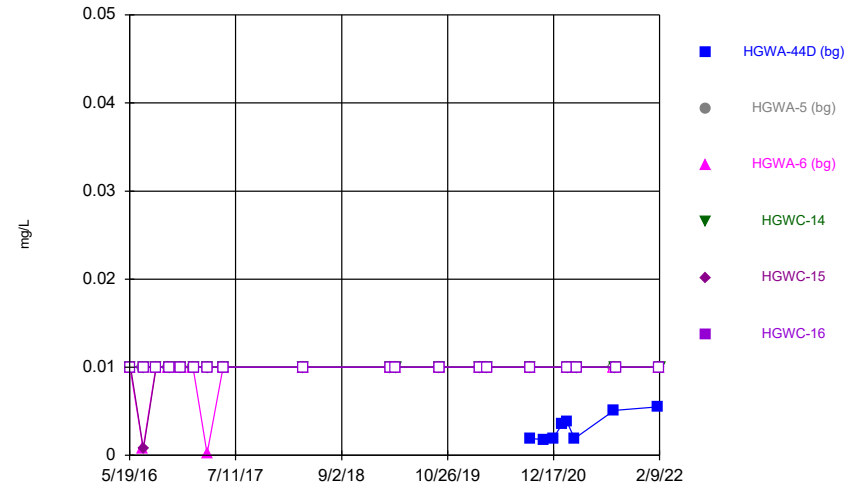
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



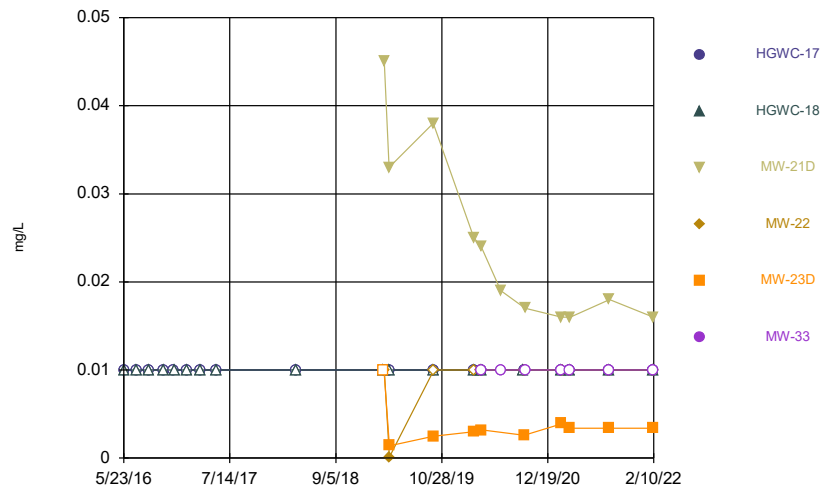
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



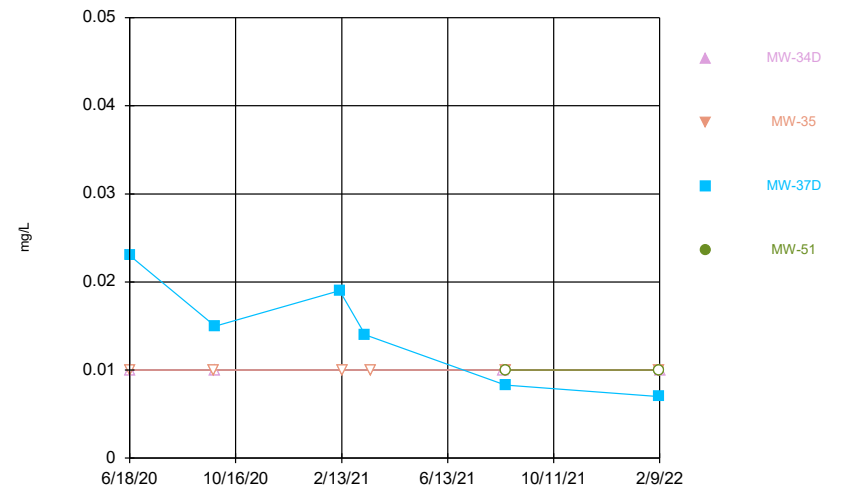
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



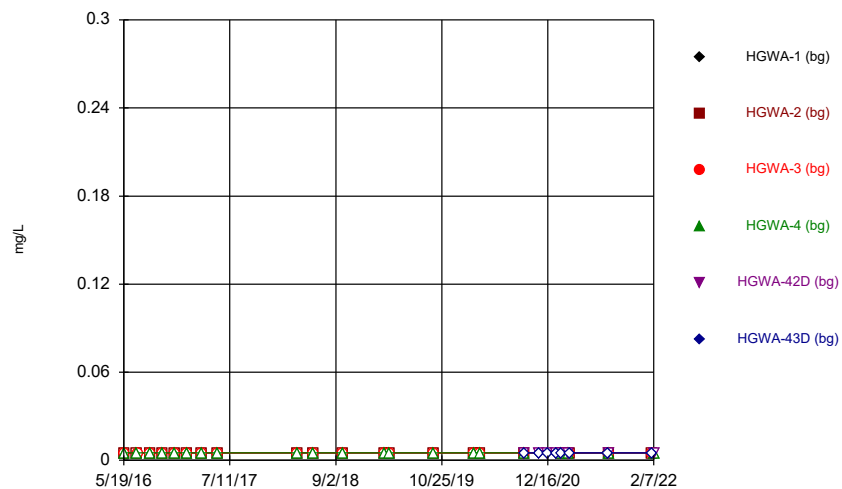
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Time Series



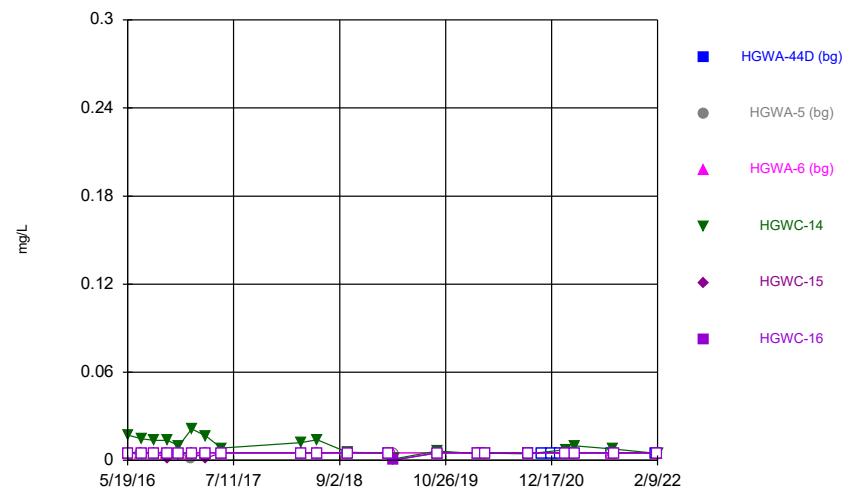
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Time Series



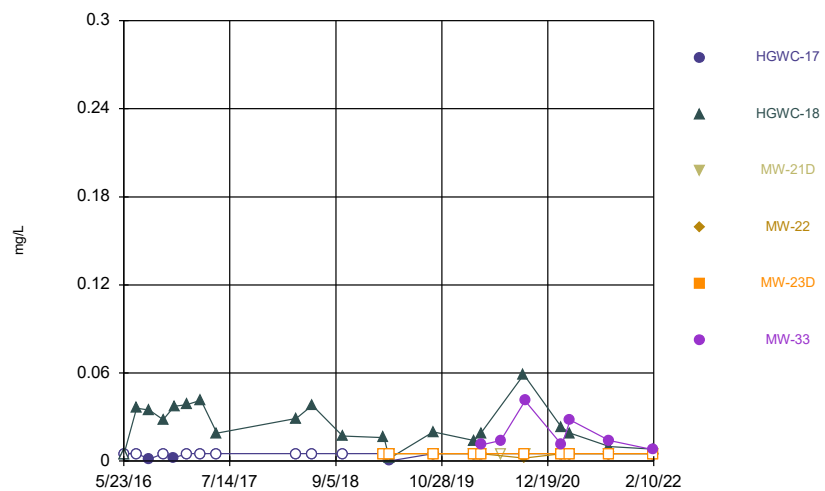
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Time Series



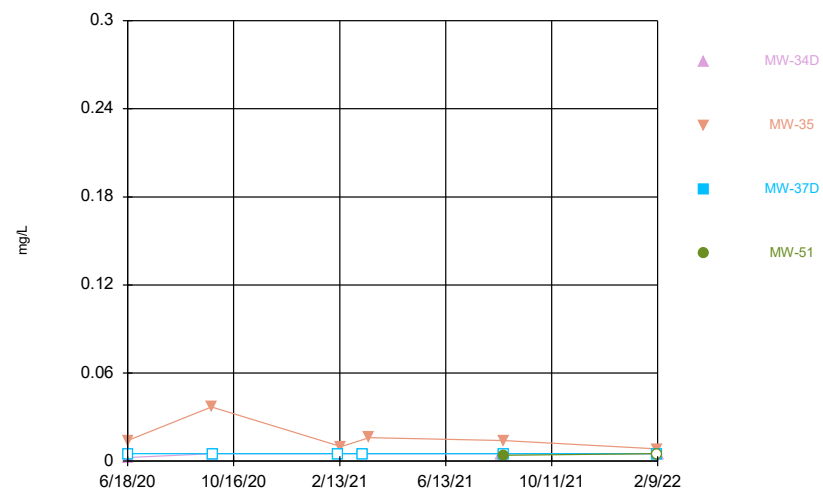
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Time Series



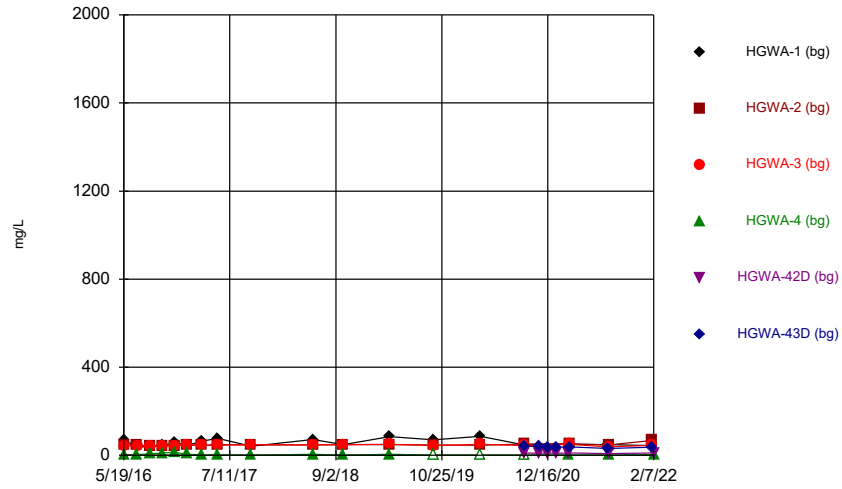
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Time Series



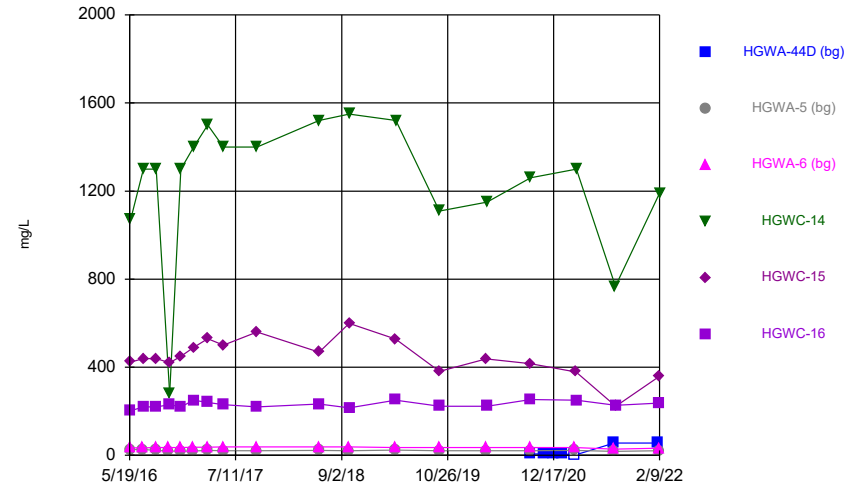
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Time Series



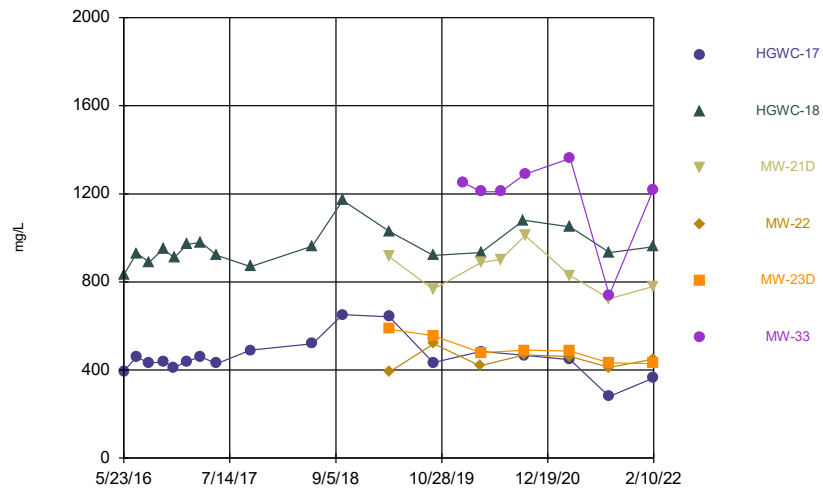
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Time Series



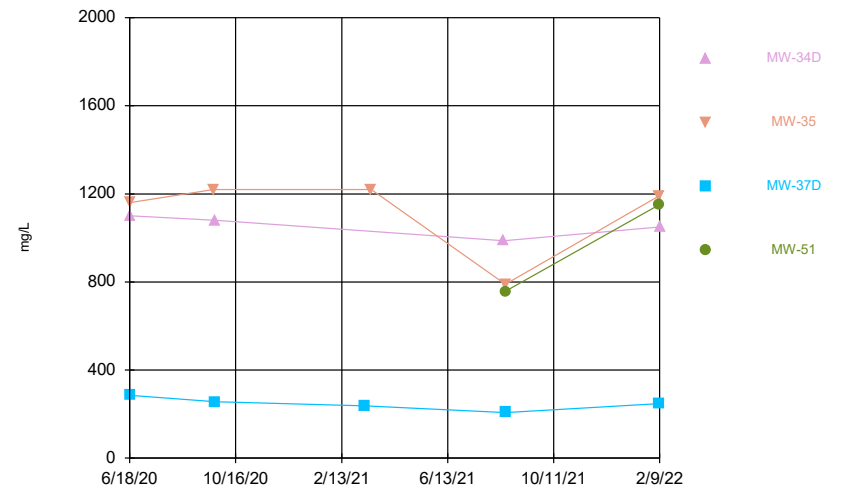
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



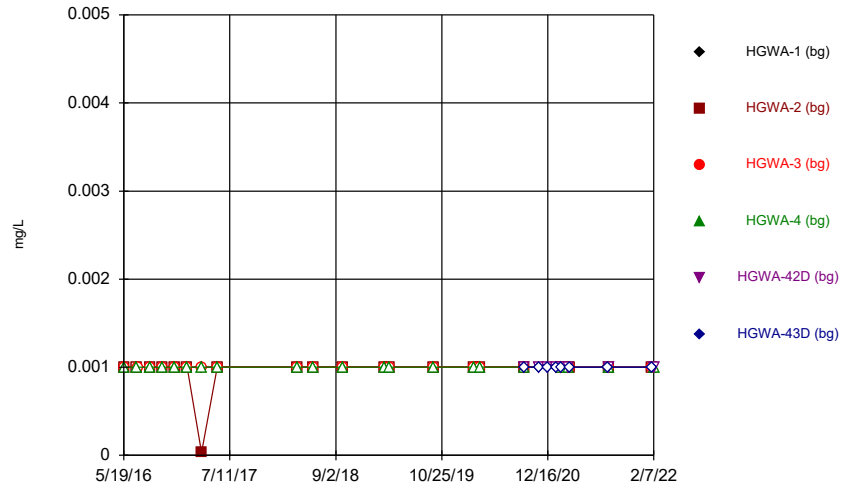
Constituent: Sulfate Analysis Run 4/26/2022 4:28 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



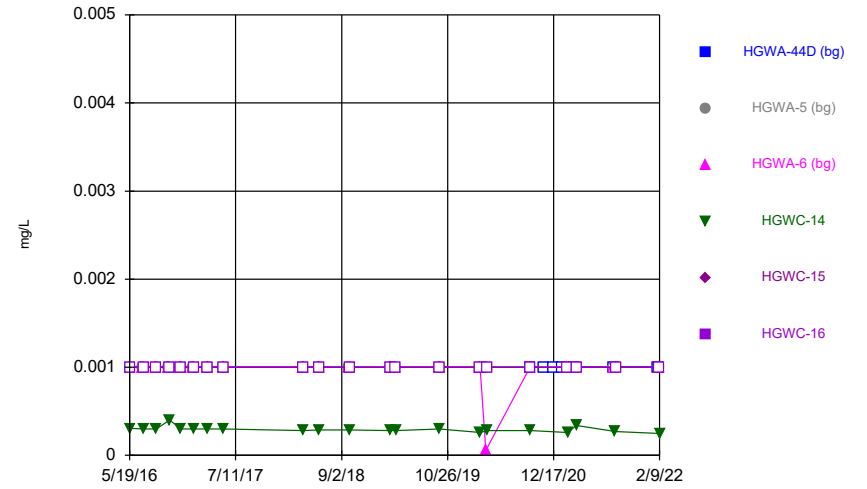
Constituent: Sulfate Analysis Run 4/26/2022 4:28 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



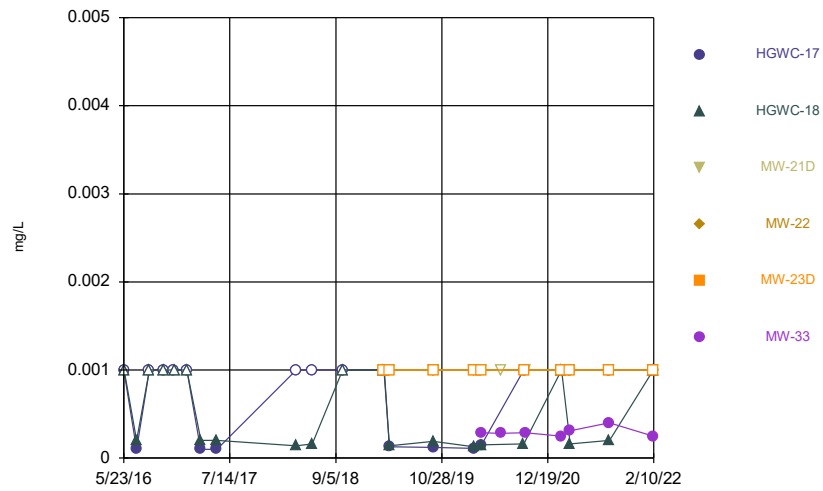
Constituent: Thallium Analysis Run 4/26/2022 4:28 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



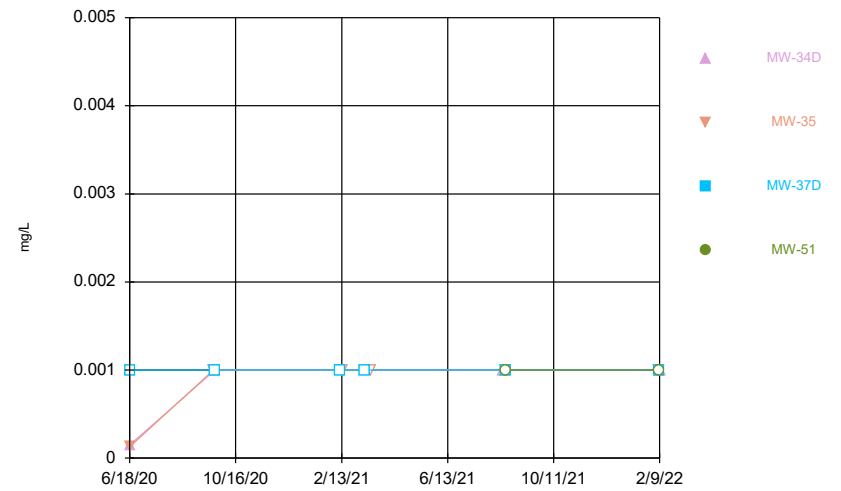
Constituent: Thallium Analysis Run 4/26/2022 4:28 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



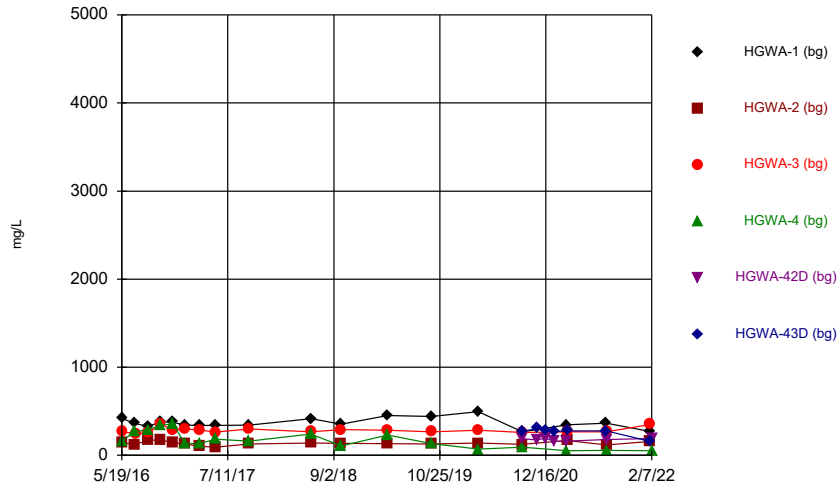
Constituent: Thallium Analysis Run 4/26/2022 4:28 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



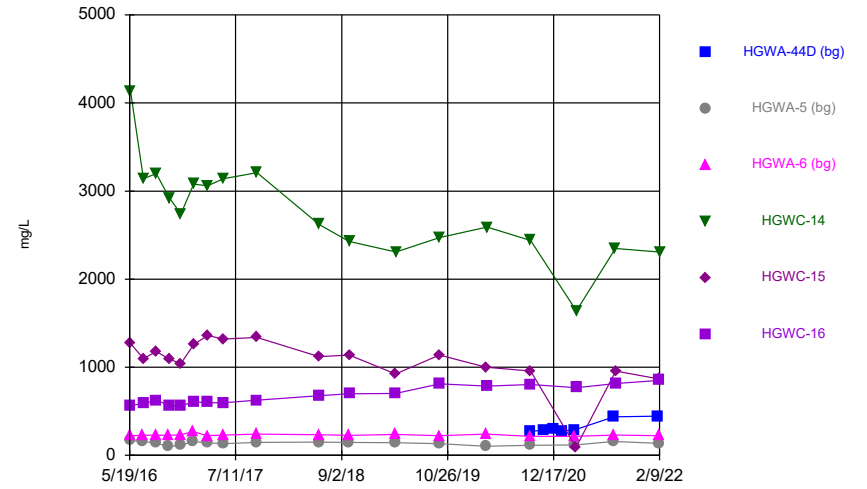
Constituent: Thallium Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



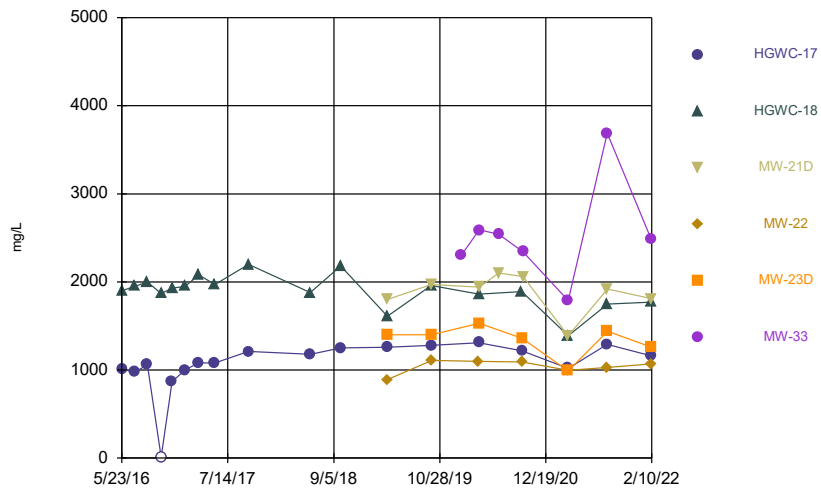
Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



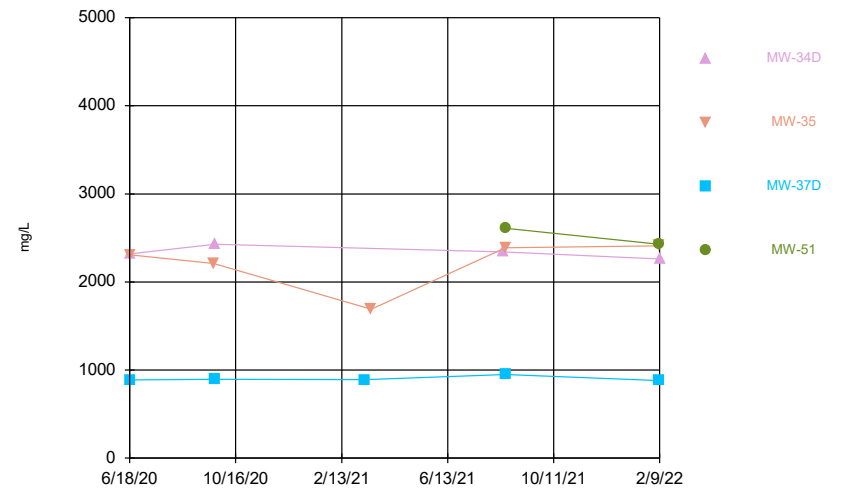
Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.003	<0.003	<0.003	<0.003		
7/11/2016	<0.003	<0.003		<0.003		
7/12/2016			0.0003 (J)			
8/30/2016	<0.003	<0.003	<0.003	<0.003		
10/19/2016	0.0014 (J)	<0.003	<0.003	<0.003		
12/6/2016	<0.003	<0.003	<0.003	<0.003		
1/24/2017	<0.003	<0.003	<0.003	<0.003		
3/21/2017	<0.003	<0.003	<0.003	<0.003		
5/22/2017	<0.003	<0.003	<0.003			
5/23/2017				<0.003		
4/2/2018	<0.003	<0.003		<0.003		
4/3/2018			<0.003			
3/11/2019				<0.003		
3/12/2019	<0.003	<0.003	<0.003			
9/23/2019	<0.003	<0.003	<0.003			
3/2/2020	<0.003	<0.003	<0.003	<0.003		
9/16/2020						0.00051 (J)
9/17/2020					0.00055 (J)	
11/10/2020						0.00043 (J)
11/11/2020				<0.003		
12/15/2020					0.00035 (J)	0.00031 (J)
1/19/2021						0.00029 (J)
1/20/2021					<0.003	
2/8/2021	<0.003			<0.003	0.0019 (J)	
2/9/2021		0.00062 (J)	0.00031 (J)			0.00037 (J)
3/10/2021	<0.003			<0.003	<0.003	
3/11/2021		<0.003	<0.003			0.00057 (J)
8/11/2021	<0.003					<0.003
8/12/2021		<0.003	<0.003	<0.003	<0.003	
2/1/2022	<0.003	<0.003	<0.003			<0.003
2/7/2022				<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.003				
5/20/2016			<0.003			
5/23/2016				<0.003	<0.003	<0.003
7/11/2016		<0.003	0.001 (J)			
7/12/2016				0.0003 (J)	<0.003	<0.003
8/30/2016		<0.003	<0.003			
9/1/2016				<0.003	<0.003	<0.003
10/20/2016		0.0023 (J)	<0.003			
10/24/2016				<0.003	<0.003	
10/25/2016						<0.003
12/7/2016				<0.003	<0.003	<0.003
12/8/2016		<0.003	<0.003			
1/24/2017		<0.003	<0.003			
1/26/2017				<0.003	<0.003	<0.003
3/21/2017		<0.003	<0.003			
3/22/2017						<0.003
3/23/2017				<0.003	<0.003	
5/23/2017		<0.003	<0.003			
5/24/2017				<0.003	<0.003	<0.003
4/3/2018		<0.003	<0.003		<0.003	<0.003
4/4/2018				<0.003		
3/12/2019		<0.003	<0.003			
3/14/2019				<0.003	<0.003	
3/15/2019						<0.003
3/2/2020		<0.003	<0.003			
3/3/2020				<0.003	<0.003	<0.003
9/16/2020	0.00049 (J)					
11/10/2020	<0.003					
12/15/2020	0.00047 (J)					
1/19/2021	0.00067 (J)					
2/9/2021	0.00042 (J)	<0.003	<0.003			
2/10/2021						<0.003
2/11/2021				0.00043 (J)		
2/12/2021					<0.003	
3/10/2021	0.00037 (J)					
3/11/2021		<0.003	<0.003			
3/16/2021					<0.003	
3/17/2021				<0.003		<0.003
8/12/2021		0.0014 (J)	<0.003			
8/13/2021	<0.003					
8/18/2021				<0.003		
8/19/2021					<0.003	<0.003
2/1/2022	0.0013 (J)					
2/7/2022		<0.003	0.0014 (J)			
2/8/2022					0.002 (J)	<0.003
2/9/2022				<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.003					
5/24/2016		<0.003				
7/12/2016	<0.003	<0.003				
9/1/2016	<0.003	<0.003				
10/25/2016	<0.003	<0.003				
12/7/2016	<0.003					
12/8/2016		<0.003				
1/26/2017	<0.003	<0.003				
3/22/2017	<0.003					
3/23/2017		<0.003				
5/25/2017	<0.003	<0.003				
4/3/2018	<0.003	<0.003				
3/14/2019		<0.003			<0.003	
3/15/2019	<0.003		<0.003	<0.003		
3/2/2020				<0.003	<0.003	
3/3/2020	<0.003	<0.003	<0.003			
2/11/2021	<0.003	<0.003	<0.003			
2/12/2021					<0.003	0.00046 (J)
2/15/2021				<0.003		
3/17/2021				<0.003	<0.003	
3/18/2021	<0.003	<0.003	<0.003			<0.003
8/18/2021	<0.003					<0.003
8/19/2021		0.0008 (J)	<0.003	0.0016 (J)	<0.003	
2/8/2022	<0.003	<0.003	<0.003	<0.003		<0.003
2/10/2022					<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
2/11/2021			0.00079 (J)	
2/15/2021		0.00041 (J)		
3/12/2021			<0.003	
3/19/2021		<0.003		
8/16/2021	<0.003			
8/18/2021		<0.003	<0.003	<0.003
2/8/2022		0.0029 (J)	<0.003	<0.003
2/9/2022	<0.003			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	0.00127 (J)	<0.005	<0.005		
7/11/2016	<0.005	0.002 (J)		<0.005		
7/12/2016			0.0008 (J)			
8/30/2016	<0.005	0.0017 (J)	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)	<0.005		
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)	<0.005		
10/1/2018	<0.005	<0.005	0.0011 (J)	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005		<0.005		
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/24/2019				<0.005		
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)	<0.005		
3/25/2020	<0.005	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						0.0021 (J)
11/11/2020				<0.005		
12/15/2020				<0.005		<0.005
1/19/2021						0.0011 (J)
1/20/2021				<0.005		
2/8/2021	<0.005			<0.005	<0.005	
2/9/2021		<0.005	<0.005			0.0017 (J)
3/10/2021	<0.005			<0.005	<0.005	
3/11/2021		<0.005	<0.005			0.0013 (J)
8/11/2021	<0.005					0.0015 (J)
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)			0.0036 (J)
2/7/2022				<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				0.00268 (J)	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				0.0059	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				0.0056	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				0.0058	<0.005	
10/25/2016						<0.005
12/7/2016				<0.005	<0.005	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		<0.005	<0.005			
1/26/2017				0.0089	<0.005	<0.005
3/21/2017		<0.005	<0.005			
3/22/2017						0.0005 (J)
3/23/2017				0.0069	0.0008 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				0.0048 (J)	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				0.0052		
6/5/2018		<0.005	<0.005			
6/6/2018				0.0059	<0.005	<0.005
10/2/2018		0.00064 (J)	<0.005			
10/3/2018				0.0032 (J)	<0.005	<0.005
3/12/2019		<0.005	<0.005			
3/14/2019				0.0029 (J)	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					0.00017 (J)	0.0001 (J)
4/5/2019				<0.005		
9/24/2019		0.00055 (J)	<0.005	0.0039 (J)	0.00037 (J)	
9/25/2019						<0.005
3/2/2020		<0.005	<0.005			
3/3/2020				0.0035 (J)	<0.005	<0.005
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.0051		0.0011 (J)
9/15/2020		<0.005	<0.005			
9/16/2020	<0.005					
9/17/2020					<0.005	<0.005
9/18/2020				0.0029 (J)		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	0.00083 (J)	<0.005	<0.005			
2/10/2021						0.0012 (J)
2/11/2021				0.0062		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		<0.005	<0.005			
3/16/2021					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.005		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.0035 (J)		
8/19/2021					<0.005	<0.005
2/1/2022	0.0025 (J)					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				0.0077		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		0.00294 (J)				
7/12/2016	<0.005	0.0074				
9/1/2016	<0.005	0.0073				
10/25/2016	<0.005	0.006				
12/7/2016	<0.005					
12/8/2016		0.007				
1/26/2017	<0.005	0.0068				
3/22/2017	0.0007 (J)					
3/23/2017		0.0082				
5/25/2017	0.0007 (J)	0.006				
4/3/2018	<0.005	0.0062				
6/5/2018		0.008				
6/6/2018	0.00097 (J)					
10/3/2018	<0.005	0.0039 (J)				
3/14/2019		0.0036 (J)			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			0.00019 (J)			
4/5/2019	<0.005	0.0015 (J)		<0.005	<0.005	
9/25/2019	<0.005	0.0044 (J)	<0.005			
9/26/2019					<0.005	
9/27/2019				0.00045 (J)		
3/2/2020				<0.005	<0.005	
3/3/2020	<0.005	0.0057	<0.005			
3/27/2020				<0.005		
3/31/2020	0.0008 (J)	0.0056				
4/1/2020			0.0013 (J)		0.00082 (J)	0.0061
6/17/2020			<0.005			0.0031 (J)
9/15/2020		0.0074				
9/16/2020	<0.005					
9/17/2020				<0.005	<0.005	
9/21/2020			<0.005			0.0083
2/11/2021	0.0012 (J)	0.0069 (B)	0.001 (J)			
2/12/2021					0.001 (J)	0.0059
2/15/2021				<0.005		
3/17/2021				<0.005	<0.005	
3/18/2021	<0.005	0.0083 (J)	<0.005			0.0054 (J)
8/18/2021	<0.005					0.0058
8/19/2021		0.0045 (J)	<0.005	<0.005	<0.005	
2/8/2022	0.0017 (J)	0.005 (J)	<0.005	<0.005		0.0069
2/10/2022					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0032 (J)	0.005 (J)	0.0021 (J)	
9/21/2020		0.0059		
9/23/2020	0.001 (J)		0.00095 (J)	
2/11/2021			0.0023 (J)	
2/15/2021		0.005		
3/12/2021			<0.005	
3/19/2021		<0.005		
8/16/2021	0.0024 (J)			
8/18/2021		0.0043 (J)	<0.005	0.002 (J)
2/8/2022		0.0072	<0.005	0.0046 (J)
2/9/2022	0.0054			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.0346	0.114	0.111	0.0266		
7/11/2016	0.0311	0.112		0.0309		
7/12/2016			0.115			
8/30/2016	0.0293	0.131	0.113	0.031		
10/19/2016	0.0293	0.111	0.123	0.0332		
12/6/2016	0.0304	0.108	0.127	0.0334		
1/24/2017	0.028	0.102	0.126	0.0192		
3/21/2017	0.0275	0.095	0.12	0.0175		
5/22/2017	0.0281	0.103	0.117			
5/23/2017				0.0227		
4/2/2018	0.026	0.099		0.022		
4/3/2018			0.11			
6/4/2018	0.035	0.11	0.12	0.027		
10/1/2018	0.029	0.11	0.14	0.018		
3/11/2019				0.029		
3/12/2019	0.042	0.12	0.13			
4/1/2019			0.13			
4/2/2019	0.04	0.13		0.03		
9/23/2019	0.042	0.13	0.13			
9/24/2019				0.03		
3/2/2020	0.034	0.11	0.14	0.023		
3/25/2020	0.043	0.12	0.13			
3/26/2020				0.026		
9/15/2020	0.035	0.12	0.12	0.024		
9/16/2020						0.26
9/17/2020				0.13		
11/10/2020						0.25
11/11/2020				0.18		
12/15/2020				0.19		0.29
1/19/2021						0.32
1/20/2021				0.2		
2/8/2021	0.032			0.04	0.19	
2/9/2021		0.12	0.13			0.34
3/10/2021	0.03			0.036	0.18	
3/11/2021		0.07	0.13			0.32
8/11/2021	0.03					0.28
8/12/2021		0.12	0.11	0.034	0.18	
2/1/2022	0.031	0.13	0.12			0.29
2/7/2022				0.028	0.18	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.0519				
5/20/2016			0.174			
5/23/2016				<0.2	0.0315 (J)	0.0841
7/11/2016		0.0565	0.134			
7/12/2016				0.0214	0.0372	0.0886
8/30/2016		0.0548	0.212			
9/1/2016				0.0208	0.0364	0.0934
10/20/2016		0.0539	0.157			
10/24/2016				0.0208	0.0326	
10/25/2016						0.0991
12/7/2016				0.022	0.0301	0.101
12/8/2016		0.0496	0.162			
1/24/2017		0.0478	0.168			
1/26/2017				0.0238	0.0287	0.105
3/21/2017		0.0453	0.186			
3/22/2017						0.11
3/23/2017				0.0244	0.0329	
5/23/2017		0.0496	0.187			
5/24/2017				0.0228	0.0283	0.106
4/3/2018		0.038	0.14		0.019	0.099
4/4/2018				0.021		
6/5/2018		0.046	0.21			
6/6/2018				0.022	0.022	0.11
10/2/2018		0.047	0.19			
10/3/2018				0.02	0.025	0.11
3/12/2019		0.05	0.2			
3/14/2019				0.019	0.021	
3/15/2019						0.13
4/2/2019		0.044	0.19			
4/4/2019					0.018	0.11
4/5/2019				0.016		
9/24/2019		0.053	0.22	0.021	0.019	
9/25/2019						0.11
3/2/2020		0.053	0.19			
3/3/2020				0.018	0.018	0.12
3/25/2020			0.19			
3/26/2020		0.045			0.016	
3/30/2020				0.02		0.11
9/15/2020		0.045	0.19			
9/16/2020	0.24					
9/17/2020					0.017	0.11
9/18/2020				0.019		
11/10/2020	0.38					
12/15/2020	0.39					
1/19/2021	0.41					
2/9/2021	0.46	0.046	0.21			
2/10/2021						0.11
2/11/2021				0.02		
2/12/2021					0.014	
3/10/2021	0.26					
3/11/2021		0.044	0.21			
3/16/2021					0.012	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.023		0.12
8/12/2021		0.044	0.18			
8/13/2021	0.22					
8/18/2021				0.018		
8/19/2021					0.01	0.1
2/1/2022	0.23					
2/7/2022		0.038	0.18			
2/8/2022					0.0098	0.1
2/9/2022				0.017		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.0222 (J)					
5/24/2016		<0.2				
7/12/2016	0.0221	0.0346				
9/1/2016	0.0227	0.0336				
10/25/2016	0.0225	0.0349				
12/7/2016	0.0227					
12/8/2016		0.0339				
1/26/2017	0.0229	0.0293				
3/22/2017	0.0248					
3/23/2017		0.0313				
5/25/2017	0.0255	0.0336				
4/3/2018	0.025	0.028				
6/5/2018		0.03				
6/6/2018	0.028					
10/3/2018	0.028	0.032				
3/14/2019		0.029			0.082	
3/15/2019	0.029		0.09	0.044		
4/4/2019			0.075			
4/5/2019	0.022	0.021		0.036	0.061	
9/25/2019	0.025	0.03	0.066			
9/26/2019					0.064	
9/27/2019				0.028		
3/2/2020				0.027	0.06	
3/3/2020	0.026	0.026	0.058			
3/27/2020				0.025		
3/31/2020	0.029	0.029				
4/1/2020			0.066		0.065	0.027
6/17/2020			0.054			0.024
9/15/2020		0.03				
9/16/2020	0.025					
9/17/2020				0.02	0.057	
9/21/2020			0.049			0.024
2/11/2021	0.025	0.03	0.044			
2/12/2021					0.056	0.025
2/15/2021				0.017		
3/17/2021				0.018	0.058	
3/18/2021	0.027	0.031	0.047			0.029
8/18/2021	0.022					0.025
8/19/2021		0.031	0.042	0.018	0.05	
2/8/2022	0.021	0.02	0.033	0.014		0.02
2/10/2022					0.05	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.044	0.029	0.19	
9/21/2020		0.028		
9/23/2020	0.038		0.14	
2/11/2021			0.14	
2/15/2021		0.026		
3/12/2021			0.12	
3/19/2021		0.032		
8/16/2021	0.035			
8/18/2021		0.025	0.12	0.032
2/8/2022		0.023	0.11	0.046
2/9/2022	0.04			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2016	<0.0005	0.0001 (J)		<0.0005		
7/12/2016			<0.0005			
8/30/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2016	<0.0005	0.0001 (J)	<0.0005	<0.0005		
12/6/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005		
1/24/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
3/21/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017				<0.0005		
4/2/2018	<0.0005	<0.0005		<0.0005		
4/3/2018			<0.0005			
3/11/2019				5E-05 (J)		
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)		<0.0005		
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/24/2019				<0.0005		
3/2/2020	<0.0005	0.00014 (J)	<0.0005	0.00019 (J)		
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
3/26/2020				7.6E-05 (J)		
9/15/2020	<0.0005	0.00013 (J)	<0.0005	<0.0005		
9/16/2020						<0.0005
9/17/2020				<0.0005		
11/10/2020						<0.0005
11/11/2020				<0.0005		
12/15/2020				<0.0005		<0.0005
1/19/2021						<0.0005
1/20/2021				<0.0005		
2/8/2021	<0.0005			0.00023 (J)	<0.0005	
2/9/2021		0.00014 (J)	<0.0005			<0.0005
3/10/2021	<0.0005			0.00017 (J)	<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005			<0.0005
8/11/2021	<0.0005					<0.0005
8/12/2021		0.00014 (J)	<0.0005	0.00021 (J)	<0.0005	
2/1/2022	<0.0005	0.0002 (J)	<0.0005			<0.0005
2/7/2022				0.00017 (J)	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0005				
5/20/2016			<0.0005			
5/23/2016				<0.0005	<0.0005	<0.0005
7/11/2016		<0.0005	<0.0005			
7/12/2016				0.0005 (J)	<0.0005	<0.0005
8/30/2016		<0.0005	<0.0005			
9/1/2016				0.0005 (J)	<0.0005	<0.0005
10/20/2016		<0.0005	<0.0005			
10/24/2016				0.0005 (J)	<0.0005	
10/25/2016						<0.0005
12/7/2016				0.0006 (J)	<0.0005	<0.0005
12/8/2016		<0.0005	<0.0005			
1/24/2017		<0.0005	<0.0005			
1/26/2017				0.0005 (J)	<0.0005	<0.0005
3/21/2017		<0.0005	<0.0005			
3/22/2017						<0.0005
3/23/2017				0.0006 (J)	<0.0005	
5/23/2017		<0.0005	<0.0005			
5/24/2017				0.0005 (J)	<0.0005	<0.0005
4/3/2018		<0.0005	<0.0005		<0.0005	<0.0005
4/4/2018				<0.0005		
3/12/2019		<0.0005	<0.0005			
3/14/2019				0.00043 (J)	<0.0005	
3/15/2019						<0.0005
4/2/2019		<0.0005	<0.0005			
4/4/2019					<0.0005	<0.0005
4/5/2019				0.00027 (J)		
9/24/2019		<0.0005	<0.0005	0.00044 (J)	<0.0005	
9/25/2019						<0.0005
3/2/2020		<0.0005	<0.0005			
3/3/2020				0.00043 (J)	<0.0005	<0.0005
3/25/2020			<0.0005			
3/26/2020		<0.0005			<0.0005	
3/30/2020				0.00043 (J)		<0.0005
9/15/2020		<0.0005	<0.0005			
9/16/2020	<0.0005					
9/17/2020					<0.0005	<0.0005
9/18/2020				0.00043 (J)		
11/10/2020	<0.0005					
12/15/2020	<0.0005					
1/19/2021	<0.0005					
2/9/2021	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005
2/11/2021				0.00044 (J)		
2/12/2021					<0.0005	
3/10/2021	<0.0005					
3/11/2021		<0.0005	<0.0005			
3/16/2021					<0.0005	
3/17/2021				0.00058		<0.0005
8/12/2021		<0.0005	<0.0005			
8/13/2021	<0.0005					
8/18/2021				0.00039 (J)		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.0005	<0.0005
2/1/2022	<0.0005					
2/7/2022		<0.0005	<0.0005			
2/8/2022					<0.0005	<0.0005
2/9/2022				0.00056		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0005					
5/24/2016		0.00278 (J)				
7/12/2016	<0.0005	0.0032				
9/1/2016	<0.0005	0.0034				
10/25/2016	<0.0005	0.0034				
12/7/2016	<0.0005					
12/8/2016		0.0033				
1/26/2017	<0.0005	0.0034				
3/22/2017	<0.0005					
3/23/2017		0.0036				
5/25/2017	<0.0005	0.0036				
4/3/2018	<0.0005	<0.0005				
3/14/2019		0.0026 (J)			<0.0005	
3/15/2019	<0.0005		<0.0005	<0.0005		
4/4/2019			<0.0005			
4/5/2019	<0.0005	0.0022 (J)		<0.0005	<0.0005	
9/25/2019	<0.0005	0.0031	<0.0005			
9/26/2019					<0.0005	
9/27/2019				<0.0005		
3/2/2020				<0.0005	<0.0005	
3/3/2020	<0.0005	0.0029 (J)	<0.0005			
3/27/2020				<0.0005		
3/31/2020	<0.0005	0.003				
4/1/2020			<0.0005		<0.0005	0.0011 (J)
6/17/2020			<0.0005			0.00099 (J)
9/15/2020		0.0033				
9/16/2020	<0.0005					
9/17/2020				4.7E-05 (J)	<0.0005	
9/21/2020			<0.0005			0.0009 (J)
2/11/2021	6.7E-05 (J)	0.0036	<0.0005			
2/12/2021					<0.0005	0.001 (J)
2/15/2021				6.2E-05 (J)		
3/17/2021				8.2E-05 (J)	<0.0005	
3/18/2021	4.8E-05 (J)	0.0038	<0.0005			0.0011
8/18/2021	<0.0005					0.00097
8/19/2021		0.0034	<0.0005	7E-05 (J)	<0.0005	
2/8/2022	<0.0005	0.0026	<0.0005	7.9E-05 (J)		0.00087 (J)
2/10/2022					<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00015 (J)	0.00032 (J)	0.00012 (J)	
9/21/2020		0.0004 (J)		
9/23/2020	<0.0005		<0.0005	
2/11/2021			<0.0005	
2/15/2021		0.0006 (J)		
3/12/2021			<0.0005	
3/19/2021		0.00061		
8/16/2021	<0.0005			
8/18/2021		0.00061	<0.0005	0.00042 (J)
2/8/2022		0.0007 (J)	<0.0005	0.00011 (J)
2/9/2022	6.5E-05 (J)			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04	<0.04		
7/11/2016	0.0142 (J)	0.0337 (J)		0.0175 (J)		
7/12/2016			0.0074 (J)			
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04	0.0072 (J)		
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)	0.018 (J)		
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)	0.0158 (J)		
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)	0.0145 (J)		
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)	0.0101 (J)		
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/23/2017				0.0159 (J)		
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)	0.0162 (J)		
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)	0.014 (J)		
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)	0.0093 (J)		
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)		0.01 (J)		
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/24/2019				0.013 (J)		
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
3/26/2020				0.012 (J)		
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)	0.013 (J)		
9/16/2020						0.061 (J)
9/17/2020				0.098 (J)		
11/10/2020						0.057 (J)
11/11/2020				0.058 (J)		
12/15/2020				0.043 (J)		0.052 (J)
1/19/2021						0.049 (J)
1/20/2021					0.045 (J)	
3/10/2021	0.015 (J)			0.012 (J)	0.048	
3/11/2021		0.056	0.015 (J)			0.06
8/11/2021	0.02 (J)					0.042
8/12/2021		0.044	<0.04	0.014 (J)	0.044	
2/1/2022	0.016 (J)	0.056	0.011 (J)			0.05
2/7/2022				0.017 (J)	0.047	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.04				
5/20/2016			0.0363 (J)			
5/23/2016				15.4	2.02	1.36
7/11/2016		0.0052 (J)	0.0179 (J)			
7/12/2016				16	1.65	1.62
8/30/2016		0.0068 (J)	0.014 (J)			
9/1/2016				12.3	1.93	1.31
10/20/2016		0.0135 (J)	0.0197 (J)			
10/24/2016				13.7	1.93	
10/25/2016						1.27
12/7/2016				16.5	2.23	1.42
12/8/2016		0.0083 (J)	0.0159 (J)			
1/24/2017		0.0072 (J)	<0.04			
1/26/2017				19.2	2.31	1.19
3/21/2017		<0.04	0.0166 (J)			
3/22/2017						1.32
3/23/2017				23.1	2.72	
5/23/2017		0.0095 (J)	0.0167 (J)			
5/24/2017				25.8	2.26	1.67
10/3/2017		0.0071 (J)	0.017 (J)			
10/4/2017				20.5	2	1.43
6/5/2018		0.0066 (J)	0.016 (J)			
6/6/2018				16.7	2.4	1.9
10/2/2018		0.0081 (J)	0.014 (J)			
10/3/2018				16.4	2.4	1.7
4/2/2019		0.0052 (J)	0.013 (J)			
4/4/2019					2.3	2.1
4/5/2019				12.5		
9/24/2019		0.0088 (J)	0.016 (J)	14.7	2.9	
9/25/2019						2.7
3/25/2020			0.021 (J)			
3/26/2020		0.0072 (J)			2.1	
3/30/2020				11.7		2.4
9/15/2020		0.012 (J)	0.016 (J)			
9/16/2020	0.23					
9/17/2020					2.2	2.4
9/18/2020				11		
11/10/2020	0.29					
12/15/2020	0.31					
1/19/2021	0.4					
3/10/2021	0.39					
3/11/2021		0.0075 (J)	0.018 (J)			
3/16/2021					2.4	
3/17/2021				11.8		2.7
8/12/2021		0.0092 (J)	0.014 (J)			
8/13/2021	0.31					
8/18/2021				8.6		
8/19/2021					2.1	2.5
2/1/2022	0.44					
2/7/2022		<0.04	0.019 (J)			
2/8/2022					1.9	2.6
2/9/2022				9.9		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	5.7					
5/24/2016		9.33				
7/12/2016	9.58	11.9				
9/1/2016	5.76	8.8				
10/25/2016	5.38	8.5				
12/7/2016	5.74					
12/8/2016		7.15				
1/26/2017	5.78	9.17				
3/22/2017	5.52					
3/23/2017		10.6				
5/25/2017	8.58	13.2				
10/4/2017	6.8	10				
6/5/2018		8.4				
6/6/2018	6.3					
10/3/2018	6.9	9.3				
4/4/2019			5.2			
4/5/2019	5.9	6.4		2.1	3	
9/25/2019	8.1	11.7	6.4			
9/26/2019					3.8	
9/27/2019				2.9		
1/22/2020						11.2
3/27/2020				2.4		
3/31/2020	6.9	9.4				
4/1/2020			6.3		3.5	11.6
6/17/2020			5.8			10.3
9/15/2020		9.4				
9/16/2020	6.7					
9/17/2020				2.3	2.7	
9/21/2020			5.6			9
3/17/2021				2.7	3.4	
3/18/2021	6.8	8.9	5.7			10.2
8/18/2021	5.3					9.1
8/19/2021		8.6	5.4	2.5	3.4	
2/8/2022	7.8	8.1	5.9	3.2		8.4
2/10/2022					3.2	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	9.4	11.9	0.14	
9/21/2020		12.3		
9/23/2020	10.2		0.12	
3/12/2021			0.15	
3/19/2021		11.9		
8/16/2021	8.2			
8/18/2021		11.2	0.2	9.7
2/8/2022		10.8	0.14	10.5
2/9/2022	9.6			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2016	<0.0005	<0.0005		<0.0005		
7/12/2016			<0.0005			
8/30/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
12/6/2016	<0.0005	<0.0005	<0.0005	<0.0005		
1/24/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
3/21/2017	<0.0005	7E-05 (J)	<0.0005	<0.0005		
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017				<0.0005		
4/2/2018	<0.0005	<0.0005		<0.0005		
4/3/2018			<0.0005			
6/4/2018	<0.0005	0.00014 (J)	<0.0005	<0.0005		
10/1/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/11/2019				<0.0005		
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)		<0.0005		
9/23/2019	<0.0005	<0.0005	<0.0005			
9/24/2019				<0.0005		
3/2/2020	<0.0005	<0.0005	<0.0005	<0.0005		
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
3/26/2020				<0.0005		
9/15/2020	<0.0005	0.00012 (J)	<0.0005	<0.0005		
9/16/2020						<0.0005
9/17/2020				<0.0005		
11/10/2020						<0.0005
11/11/2020				<0.0005		
12/15/2020				<0.0005		<0.0005
1/19/2021						<0.0005
1/20/2021				<0.0005		
2/8/2021	<0.0005			<0.0005	<0.0005	
2/9/2021		0.00016 (J)	<0.0005			<0.0005
3/10/2021	<0.0005			<0.0005	<0.0005	
3/11/2021		<0.0005	<0.0005			<0.0005
8/11/2021	<0.0005					<0.0005
8/12/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/1/2022	<0.0005	0.00017 (J)	<0.0005			<0.0005
2/7/2022				<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0005				
5/20/2016			<0.0005			
5/23/2016				0.000139 (J)	0.00271 (J)	<0.0005
7/11/2016		<0.0005	<0.0005			
7/12/2016				<0.0005	0.0019	<0.0005
8/30/2016		<0.0005	<0.0005			
9/1/2016				0.0001 (J)	0.0017	<0.0005
10/20/2016		<0.0005	<0.0005			
10/24/2016				0.0002 (J)	0.0018	
10/25/2016						<0.0005
12/7/2016				0.0001 (J)	0.0018	<0.0005
12/8/2016		<0.0005	<0.0005			
1/24/2017		<0.0005	<0.0005			
1/26/2017				0.0001 (J)	0.0013	<0.0005
3/21/2017		<0.0005	<0.0005			
3/22/2017						<0.0005
3/23/2017				0.0002 (J)	0.002	
5/23/2017		<0.0005	<0.0005			
5/24/2017				0.0001 (J)	0.0041	<0.0005
4/3/2018		<0.0005	<0.0005		0.0022	<0.0005
4/4/2018				<0.0005		
6/5/2018		<0.0005	<0.0005			
6/6/2018				0.00012 (J)	0.0021	<0.0005
10/2/2018		<0.0005	<0.0005			
10/3/2018				0.0001 (J)	0.0026	<0.0005
3/12/2019		<0.0005	<0.0005			
3/14/2019				<0.0005	0.0024	
3/15/2019						<0.0005
4/2/2019		<0.0005	<0.0005			
4/4/2019					0.0018	<0.0005
4/5/2019				7.9E-05 (J)		
9/24/2019		<0.0005	<0.0005	<0.0005	0.0014 (J)	
9/25/2019						<0.0005
3/2/2020		<0.0005	<0.0005			
3/3/2020				<0.0005	0.0015 (J)	<0.0005
3/25/2020			<0.0005			
3/26/2020		<0.0005			0.0016 (J)	
3/30/2020				<0.0005		<0.0005
9/15/2020		<0.0005	<0.0005			
9/16/2020	<0.0005					
9/17/2020					0.0016 (J)	<0.0005
9/18/2020				<0.0005		
11/10/2020	<0.0005					
12/15/2020	<0.0005					
1/19/2021	<0.0005					
2/9/2021	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005
2/11/2021				<0.0005		
2/12/2021					0.0014 (J)	
3/10/2021	<0.0005					
3/11/2021		<0.0005	<0.0005			
3/16/2021					0.0011	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.0005		<0.0005
8/12/2021		<0.0005	<0.0005			
8/13/2021	<0.0005					
8/18/2021				0.00013 (J)		
8/19/2021					0.0012	<0.0005
2/1/2022	<0.0005					
2/7/2022		<0.0005	<0.0005			
2/8/2022					0.0011	<0.0005
2/9/2022				<0.0005		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0005					
5/24/2016		<0.0005				
7/12/2016	<0.0005	0.0022				
9/1/2016	<0.0005	0.0024				
10/25/2016	<0.0005	0.0022				
12/7/2016	<0.0005					
12/8/2016		0.0024				
1/26/2017	<0.0005	0.0025				
3/22/2017	7E-05 (J)					
3/23/2017		0.0025				
5/25/2017	<0.0005	0.0027				
4/3/2018	<0.0005	0.0022				
6/5/2018		0.0022				
6/6/2018	<0.0005					
10/3/2018	<0.0005	0.0027				
3/14/2019		0.0019			<0.0005	
3/15/2019	<0.0005		<0.0005	0.00082 (J)		
4/4/2019			<0.0005			
4/5/2019	<0.0005	0.0017		0.00064 (J)	<0.0005	
9/25/2019	<0.0005	0.0023 (J)	<0.0005			
9/26/2019					<0.0005	
9/27/2019				0.0014 (J)		
3/2/2020				0.0021 (J)	<0.0005	
3/3/2020	<0.0005	0.0021 (J)	<0.0005			
3/27/2020				0.0019 (J)		
3/31/2020	<0.0005	0.0017 (J)				
4/1/2020			<0.0005		<0.0005	0.00022 (J)
6/17/2020			<0.0005			0.00021 (J)
9/15/2020		0.0019 (J)				
9/16/2020	<0.0005					
9/17/2020				0.0021 (J)	0.0006 (J)	
9/21/2020			<0.0005			0.00016 (J)
2/11/2021	<0.0005	0.0016 (J)	<0.0005			
2/12/2021					0.00045 (J)	0.00017 (J)
2/15/2021				0.002 (J)		
3/17/2021				0.0022	0.00057	
3/18/2021	<0.0005	0.0015	<0.0005			0.00019 (J)
8/18/2021	<0.0005					0.00017 (J)
8/19/2021		0.0014	<0.0005	0.0021	0.00012 (J)	
2/8/2022	<0.0005	0.00076	<0.0005	0.002		0.00013 (J)
2/10/2022					0.00024 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	<0.0005	0.00053 (J)	<0.0005	
9/21/2020		0.001 (J)		
9/23/2020	<0.0005		<0.0005	
2/11/2021			<0.0005	
2/15/2021		0.0017 (J)		
3/12/2021			<0.0005	
3/19/2021		0.0018		
8/16/2021	0.00023 (J)			
8/18/2021		0.0015	<0.0005	0.00094
2/8/2022		0.0015	<0.0005	0.00024 (J)
2/9/2022	0.00072			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	138	22.9	76.2	48.4		
7/11/2016	97.2	22.3		73		
7/12/2016			61.5			
8/30/2016	97.5	26.4	65.1	85.7		
10/19/2016	99.2	21.7	73.2	89.7		
12/6/2016	105	18.2	74.9	80		
1/24/2017	95.7	18.5	69.6	30.8		
3/21/2017	106	18.6	75.7	34		
5/22/2017	107	17.8	71.5			
5/23/2017				43		
10/3/2017	102	20.2	76.3	46.9		
6/4/2018	124	19.1	73.4	81.9		
10/1/2018	108	20.5 (J)	80.9	22 (J)		
4/1/2019			80.5			
4/2/2019	132	22.5 (J)		76		
9/23/2019	118	19.5	71			
9/24/2019				36.6		
3/25/2020	127	23	89.8			
3/26/2020				14.9		
9/15/2020	103	21.1	73.1	20.4		
9/16/2020						56
9/17/2020				43.8		
11/10/2020						63.3
11/11/2020				44.4		
12/15/2020				47.3		62.6
1/19/2021						60.1
1/20/2021				41.8		
3/10/2021	111			5.9	43.4	
3/11/2021		43.8	83.8			59.6
8/11/2021	113					61
8/12/2021		21.9	84	5.4	43.6	
2/1/2022	106	27.2	85.1			55.9
2/7/2022				5.9	48.7	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		35.5				
5/20/2016			56.1			
5/23/2016				664	184	146
7/11/2016		35.4	49.3			
7/12/2016				528	186	142
8/30/2016		28	53.9			
9/1/2016				586	189	141
10/20/2016		26.7	50.7			
10/24/2016				564	200	
10/25/2016						138
12/7/2016				590	203	146
12/8/2016		23.5	49.2			
1/24/2017		24.5	48.3			
1/26/2017				558	212	139
3/21/2017		30.8	51.3			
3/22/2017						150
3/23/2017				652	229	
5/23/2017		24.2	49.1			
5/24/2017				617	265	153
10/3/2017		29	55.1			
10/4/2017				644	230	156
6/5/2018		27.8	54.5			
6/6/2018				606	250	177
10/2/2018		28.9	54.7			
10/3/2018				558	234	160
4/2/2019		26.3	49.7			
4/4/2019					214	196
4/5/2019				606		
9/24/2019		29.3	52.5	507	202	
9/25/2019						185
3/25/2020			58.1			
3/26/2020		27.8			240	
3/30/2020				600		208
9/15/2020		27.9	49.9			
9/16/2020	30					
9/17/2020					188	190
9/18/2020				623		
11/10/2020	33.6					
12/15/2020	28.7					
1/19/2021	33					
3/10/2021	18.3					
3/11/2021		28.3	53.1			
3/16/2021					196	
3/17/2021				572		198
8/12/2021		32	54.7			
8/13/2021	28.9					
8/18/2021				583		
8/19/2021					203	207
2/1/2022	24.8					
2/7/2022		30	53.4			
2/8/2022					186	218
2/9/2022				571		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	225					
5/24/2016		403				
7/12/2016	199	328				
9/1/2016	213	379				
10/25/2016	206	362				
12/7/2016	212					
12/8/2016		366				
1/26/2017	198	394				
3/22/2017	239					
3/23/2017		440				
5/25/2017	292	492				
10/4/2017	305	470				
6/5/2018		425				
6/6/2018	299					
10/3/2018	286	421				
4/4/2019			427			
4/5/2019	340	400		178	352	
9/25/2019	305	437	420			
9/26/2019					306	
9/27/2019				202		
1/22/2020						638
3/27/2020				212		
3/31/2020	328	418				
4/1/2020			438		342	567
6/17/2020			434			561
9/15/2020		430				
9/16/2020	277					
9/17/2020				203	361	
9/21/2020			428			562
3/17/2021				200	341	
3/18/2021	266	407	382			574
8/18/2021	281					549
8/19/2021		416	365	203	307	
2/8/2022	280	418	366	221		548
2/10/2022					288	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	584	517	165	
9/21/2020		503		
9/23/2020	556		158	
3/12/2021			170	
3/19/2021		552		
8/16/2021	554			
8/18/2021		546	180	532
2/8/2022		519	167	537
2/9/2022	557			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	9.94	6.14	5.93	4.56		
7/11/2016	6.3	5.9		5		
7/12/2016			6.2			
8/30/2016	6	6.2	6.4	4.9		
10/19/2016	5.8	6.1	6.5	4.6		
12/6/2016	5.4	6	7.2	4.5		
1/24/2017	5.2	6.1	6.4	4.7		
3/21/2017	4.6	5.9	7.5	4.3		
5/22/2017	4.6	5.9	6.5			
5/23/2017				4.5		
10/3/2017	5.6	6.3	6.5	4.8		
6/4/2018	13.1	6.1	6.3	4.5		
10/1/2018	6.6	6.4	6.4	3.8		
4/1/2019			6.5			
4/2/2019	20.3	5.8		4.4		
9/23/2019	17.7	5.1	5.9			
9/24/2019				3.6		
3/25/2020	20.4	5.2	6.1			
3/26/2020				3.4		
9/15/2020	13.4	5	6	3.3		
9/16/2020						4.1
9/17/2020				5.8		
11/10/2020						4.4
11/11/2020				3.1		
12/15/2020				3.2		4.7
1/19/2021						4.1
1/20/2021				2.8		
3/10/2021	7.4			2.9	3	
3/11/2021		5.1	5.9			4.5
8/11/2021	9.6					3.5
8/12/2021		5.2	4.8	2.4	2.6	
2/1/2022	7.5	7	5.7			4.1
2/7/2022				2.4	3.1	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		1.57				
5/20/2016			1.35			
5/23/2016				659	209	25.8
7/11/2016		2	1.7			
7/12/2016				620	190	34
8/30/2016		2	1.6			
9/1/2016				510	200	34
10/20/2016		2.2	1.6			
10/24/2016				110	200	
10/25/2016						35
12/7/2016				510	240	38
12/8/2016		2	1.6			
1/24/2017		1.6	1.9			
1/26/2017				640	260	41
3/21/2017		2	1.3			
3/22/2017						41
3/23/2017				600	280	
5/23/2017		1.7	1.2			
5/24/2017				510	240	44
10/3/2017		1.7	2.1			
10/4/2017				420	210	50
6/5/2018		1.6	1.2			
6/6/2018				357	196	50.6
10/2/2018		2.4	1.7			
10/3/2018				368	200	49.9
4/2/2019		1.7	1.6			
4/4/2019					138	76.8
4/5/2019				227		
9/24/2019		1.7	1.3	188	120	
9/25/2019						84.4
3/25/2020			1.2			
3/26/2020		1.4			142	
3/30/2020				236		80.2
9/15/2020		1.7	1.2			
9/16/2020	7.2					
9/17/2020					108	99.3
9/18/2020				288		
11/10/2020	7.8					
12/15/2020	9.4					
1/19/2021	9.5					
3/10/2021	12.3					
3/11/2021		1.4	1.2			
3/16/2021					103	
3/17/2021				233		93.8
8/12/2021		1.4	0.94 (J)			
8/13/2021	39.9					
8/18/2021				141		
8/19/2021					89.9	90.1
2/1/2022	44.8					
2/7/2022		1.4	1.1			
2/8/2022					76.6	96.4
2/9/2022				174		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	94					
5/24/2016		280				
7/12/2016	100	300				
9/1/2016	95	270				
10/25/2016	98	290				
12/7/2016	89					
12/8/2016		300				
1/26/2017	99	340				
3/22/2017	100					
3/23/2017		350				
5/25/2017	99	290				
10/4/2017	130	260				
6/5/2018		261				
6/6/2018	166					
10/3/2018	193	302				
4/4/2019			299			
4/5/2019	195	217		131	195	
9/25/2019	139	181	245			
9/26/2019					204	
9/27/2019				176		
1/22/2020						231
3/27/2020				141		
3/31/2020	161	126				
4/1/2020			236		166	242
6/17/2020			223			250
9/15/2020		150				
9/16/2020	156					
9/17/2020				153	171	
9/21/2020			236			273
3/17/2021				127	151	
3/18/2021	138	90.2	208			199
8/18/2021	90.7					118
8/19/2021		95.8	173	118	137	
2/8/2022	117	105	196	110		166
2/10/2022					138	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	259	229	151	
9/21/2020		257		
9/23/2020	294		166	
3/12/2021			124	
3/19/2021		250		
8/16/2021	264			
8/18/2021		149	122	123
2/8/2022		202	151	194
2/9/2022	251			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	<0.005	<0.005	<0.005		
7/11/2016	<0.005	<0.005		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	<0.005	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	0.0005 (J)	<0.005	<0.005	0.0004 (J)		
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
3/11/2019				<0.005		
3/12/2019	<0.005	<0.005	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)		0.019		
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	0.00041 (J)	<0.005	0.0004 (J)		
3/25/2020	0.00072 (J)	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020					0.00063 (J)	
12/15/2020					0.0025 (J)	<0.005
1/19/2021						<0.005
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	0.00078 (J)	
2/9/2021		<0.005	<0.005			0.00095 (J)
3/10/2021	<0.005			<0.005	<0.005	
3/11/2021		<0.005	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	<0.005	<0.005	<0.005			<0.005
2/7/2022				<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				<0.005	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				<0.005	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				<0.005	<0.005	
10/25/2016						<0.005
12/7/2016				<0.005	<0.005	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		<0.005	<0.005			
1/26/2017				<0.005	<0.005	<0.005
3/21/2017		<0.005	0.0007 (J)			
3/22/2017						0.0021 (J)
3/23/2017				<0.005	0.0005 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				<0.005	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				<0.005		
3/12/2019		<0.005	<0.005			
3/14/2019				<0.005	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					<0.005	<0.005
4/5/2019				<0.005		
9/24/2019		<0.005	<0.005	<0.005	0.00041 (J)	
9/25/2019						<0.005
3/2/2020		0.0005 (J)	<0.005			
3/3/2020				0.00042 (J)	<0.005	0.00071 (J)
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.00066 (J)		0.0004 (J)
9/15/2020		<0.005	<0.005			
9/16/2020	0.0012 (J)					
9/17/2020					<0.005	<0.005
9/18/2020				<0.005		
11/10/2020	0.00089 (J)					
12/15/2020	0.00072 (J)					
1/19/2021	0.0011 (J)					
2/9/2021	0.00066 (J)	<0.005	<0.005			
2/10/2021						<0.005
2/11/2021				<0.005		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		0.0011 (J)	<0.005			
3/16/2021					0.0012 (J)	
3/17/2021				<0.005		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	0.0016 (J)					
8/18/2021				<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.005	<0.005
2/1/2022	0.0013 (J)					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		<0.005				
7/12/2016	<0.005	<0.005				
9/1/2016	<0.005	<0.005				
10/25/2016	<0.005	<0.005				
12/7/2016	<0.005					
12/8/2016		<0.005				
1/26/2017	<0.005	<0.005				
3/22/2017	<0.005					
3/23/2017		0.0005 (J)				
5/25/2017	<0.005	<0.005				
4/3/2018	<0.005	<0.005				
3/14/2019		<0.005			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			<0.005			
4/5/2019	<0.005	<0.005		<0.005	<0.005	
9/25/2019	<0.005	<0.005	<0.005			
9/26/2019					<0.005	
9/27/2019				0.0004 (J)		
3/2/2020				<0.005	<0.005	
3/3/2020	0.0018 (J)	0.0004 (J)	<0.005			
3/27/2020				<0.005		
3/31/2020	<0.005	<0.005				
4/1/2020			<0.005		0.00086 (J)	0.00069 (J)
6/17/2020			0.00057 (J)			<0.005
9/15/2020		0.00063 (J)				
9/16/2020	<0.005					
9/17/2020				<0.005	<0.005	
9/21/2020			<0.005			<0.005
2/11/2021	0.00074 (J)	<0.005	<0.005			
2/12/2021					<0.005	<0.005
2/15/2021				<0.005		
3/17/2021				0.00075 (J)	0.00083 (J)	
3/18/2021	0.00069 (J)	<0.005	0.00074 (J)			<0.005
8/18/2021	<0.005					<0.005
8/19/2021		<0.005	<0.005	<0.005	<0.005	
2/8/2022	<0.005	<0.005	<0.005	<0.005		<0.005
2/10/2022					<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0059 (J)	<0.005	0.0048 (J)	
9/21/2020		0.00079 (J)		
9/23/2020	<0.005		<0.005	
2/11/2021			0.0014 (J)	
2/15/2021		<0.005		
3/12/2021			<0.005	
3/19/2021		0.00083 (J)		
8/16/2021	<0.005			
8/18/2021		<0.005	<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005
2/9/2022	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	0.0293	<0.005	<0.005		
7/11/2016	0.0004 (J)	0.0267		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	0.028	<0.005	<0.005		
10/19/2016	<0.005	0.0201	<0.005	<0.005		
12/6/2016	<0.005	0.0184	<0.005	<0.005		
1/24/2017	<0.005	0.0206	<0.005	<0.005		
3/21/2017	<0.005	0.0251	<0.005	<0.005		
5/22/2017	<0.005	0.0263	<0.005			
5/23/2017				<0.005		
4/2/2018	<0.005	0.019		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	0.025	<0.005	<0.005		
10/1/2018	<0.005	0.026	<0.005	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	0.017	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	0.019		<0.005		
9/23/2019	<0.005	0.038	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	0.019	<0.005	0.00063 (J)		
3/25/2020	<0.005	0.02	<0.005			
3/26/2020				0.00058 (J)		
9/15/2020	<0.005	0.021	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020				<0.005		
12/15/2020				0.00049 (J)		<0.005
1/19/2021						<0.005
1/20/2021				<0.005		
2/8/2021	<0.005			0.00074 (J)	<0.005	
2/9/2021		0.02	<0.005			<0.005
3/10/2021	<0.005			0.00065 (J)	<0.005	
3/11/2021		0.013	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		0.022	<0.005	0.0007 (J)	<0.005	
2/1/2022	<0.005	0.025	<0.005			<0.005
2/7/2022				0.00068 (J)	<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				<0.005	0.0419 (J)	<0.005
7/11/2016		0.001 (J)	<0.005			
7/12/2016				0.0232	0.0393	<0.005
8/30/2016		0.001 (J)	<0.005			
9/1/2016				0.0248	0.045	<0.005
10/20/2016		0.0008 (J)	<0.005			
10/24/2016				0.0253	0.0557	
10/25/2016						<0.005
12/7/2016				0.0269	0.0536	<0.005
12/8/2016		0.0006 (J)	<0.005			
1/24/2017		0.0006 (J)	<0.005			
1/26/2017				0.0294	0.055	<0.005
3/21/2017		0.0008 (J)	<0.005			
3/22/2017						<0.005
3/23/2017				0.0311	0.0715	
5/23/2017		0.0006 (J)	<0.005			
5/24/2017				0.0279	0.0446	<0.005
4/3/2018		<0.005	<0.005		0.032	<0.005
4/4/2018				0.025		
6/5/2018		<0.005	<0.005			
6/6/2018				0.027	0.032	<0.005
10/2/2018		<0.005	<0.005			
10/3/2018				0.023	0.051	<0.005
3/12/2019		0.00099 (J)	<0.005			
3/14/2019				0.025	0.038	
3/15/2019						<0.005
4/2/2019		0.0012 (J)	<0.005			
4/4/2019					0.035	0.00028 (J)
4/5/2019				0.021		
9/24/2019		0.00063 (J)	<0.005	0.026	0.022	
9/25/2019						<0.005
3/2/2020		0.00093 (J)	<0.005			
3/3/2020				0.029	0.03	0.00037 (J)
3/25/2020			<0.005			
3/26/2020		0.0013 (J)			0.022	
3/30/2020				0.028		<0.005
9/15/2020		0.00047 (J)	<0.005			
9/16/2020	<0.005					
9/17/2020					0.026	<0.005
9/18/2020				0.027		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	<0.005	0.00071 (J)	<0.005			
2/10/2021						<0.005
2/11/2021				0.033		
2/12/2021					0.019	
3/10/2021	<0.005					
3/11/2021		0.0013 (J)	<0.005			
3/16/2021					0.018	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.034		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.033		
8/19/2021					0.011	<0.005
2/1/2022	<0.005					
2/7/2022		0.00055 (J)	<0.005			
2/8/2022					0.0081	<0.005
2/9/2022				0.038		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.0167					
5/24/2016		0.17 (J)				
7/12/2016	0.0148	0.168				
9/1/2016	0.0151	0.18				
10/25/2016	0.0141	0.188				
12/7/2016	0.0141					
12/8/2016		0.206				
1/26/2017	0.0154	0.195				
3/22/2017	0.0169					
3/23/2017		0.223				
5/25/2017	0.0154	0.209				
4/3/2018	0.016	0.19				
6/5/2018		0.19				
6/6/2018	0.018					
10/3/2018	0.016	0.19				
3/14/2019		0.16			0.0013 (J)	
3/15/2019	0.017		<0.005	0.028		
4/4/2019			0.00034 (J)			
4/5/2019	0.016	0.14		0.022	0.0012 (J)	
9/25/2019	0.015	0.18	<0.005			
9/26/2019					0.00098 (J)	
9/27/2019				0.035		
1/22/2020						0.052
3/2/2020				0.043	0.0011 (J)	
3/3/2020	0.016	0.15	<0.005			
3/27/2020				0.025		
3/31/2020	0.016	0.16				
4/1/2020			<0.005		0.0011 (J)	0.058
6/17/2020			<0.005			0.053
9/15/2020		0.16				
9/16/2020	0.013					
9/17/2020				0.029	0.00096 (J)	
9/21/2020			<0.005			0.047
2/11/2021	0.012	0.14	<0.005			
2/12/2021					0.001 (J)	0.055
2/15/2021				0.038		
3/17/2021				0.039	0.0011 (J)	
3/18/2021	0.012	0.14	<0.005			0.057
8/18/2021	0.009					0.054
8/19/2021		0.15	<0.005	0.022	0.00089 (J)	
2/8/2022	0.0066	0.16	<0.005	0.034		0.048
2/10/2022					0.001 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.011	0.091	0.0015 (J)	
9/21/2020		0.084		
9/23/2020	0.0056		<0.005	
2/11/2021			0.00048 (J)	
2/15/2021		0.095		
3/12/2021			<0.005	
3/19/2021		0.1		
8/16/2021	0.0093			
8/18/2021		0.085	<0.005	0.03
2/8/2022		0.09	<0.005	0.031
2/9/2022	0.0065			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.397 (U)	0.627 (U)	0.342 (U)	0.662 (U)		
7/11/2016	0.738 (U)	1.38		1.19		
7/12/2016			0.499 (U)			
8/30/2016	0.581 (U)	1.05 (U)	0.976 (U)	0.847 (U)		
10/19/2016	0.213 (U)	1.11 (U)	0.626 (U)	2.34		
12/6/2016	0.444 (U)	0.741 (U)	0.805 (U)	0.925 (U)		
1/24/2017	0.373 (U)	0.908 (U)	0.336 (U)	0.607 (U)		
3/21/2017	0.816 (U)	0.567 (U)	0.358 (U)	0.074 (U)		
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/23/2017				0.55 (U)		
4/2/2018	0.405 (U)	0.761 (U)		0.371 (U)		
4/3/2018			0.684 (U)			
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)	0.622 (U)		
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)	0.132 (U)		
3/11/2019				0.781 (U)		
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)		0.494 (U)		
9/24/2019				0.455 (U)		
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)	0.937 (U)		
3/25/2020	4.36	0.621 (U)	0.833 (U)			
3/26/2020				0.578 (U)		
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)	0.179 (U)		
9/16/2020						0.531 (U)
9/17/2020				0.665 (U)		
11/10/2020						0.788 (U)
11/11/2020				1.28		
12/15/2020				0.261 (U)		1.04 (U)
1/19/2021						0.685 (U)
1/20/2021				0.845 (U)		
2/8/2021	0.223 (U)			0.558 (U)	0.429 (U)	
2/9/2021		0.721 (U)	0.447 (U)			0.138 (U)
3/10/2021	0 (U)			0.281 (U)	1.21	
3/11/2021		0.737 (U)	0.128 (U)			1.51 (U)
8/11/2021	0.115 (U)					0.394 (U)
8/12/2021		0.746 (U)	0.389 (U)	0.359 (U)	0.11 (U)	
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)			1.12
2/7/2022				0.0978 (U)	0.066 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.685 (U)				
5/20/2016			0.843 (U)			
5/23/2016				0.568 (U)	0.171 (U)	
7/1/2016						0 (U)
7/11/2016		1.68	0.494 (U)			
7/12/2016				1.31	0.611 (U)	0.182 (U)
8/30/2016		2.42	0.946 (U)			
9/1/2016				1.64	0.766 (U)	1.23
10/20/2016		0.351 (U)	0.664 (U)			
10/24/2016				1.88	0.969	
10/25/2016						1.05 (U)
12/7/2016				1.35	0.302 (U)	1.11 (U)
12/8/2016		0.905 (U)	0.421 (U)			
1/24/2017		0.0774 (U)	0.965 (U)			
1/26/2017				2.1	0.626 (U)	1.29 (U)
3/21/2017		0.0599 (U)	0.139 (U)			
3/22/2017						0.453 (U)
3/23/2017				1.17	0.662 (U)	
5/23/2017		0.477 (U)	0.308 (U)			
5/24/2017				1 (U)	0.202 (U)	1.05 (U)
4/3/2018		0.858 (U)	0.828 (U)		0.384 (U)	0.783 (U)
4/4/2018				1.72		
6/5/2018		0.767 (U)	0.424 (U)			
6/6/2018				1.31 (U)	1.32 (U)	0.595 (U)
10/2/2018		0.489 (U)	0.643 (U)			
10/3/2018				1.48	0.858 (U)	1.03 (U)
3/12/2019		0.833 (U)	0.982 (U)			
3/14/2019				1.5	0.462 (U)	
3/15/2019						0.591 (U)
4/2/2019		1.07 (U)	0.621 (U)			
4/4/2019					0.512 (U)	0.96 (U)
4/5/2019				1.43 (U)		
9/24/2019		0.201 (U)	0.874 (U)	1.17	0.582 (U)	
9/25/2019						0.643 (U)
3/2/2020		0.547 (U)	0.676 (U)			
3/3/2020				1.84	1.43	1.32 (U)
3/25/2020			0.509 (U)			
3/26/2020		0.907 (U)			0.855 (U)	
3/30/2020				1.08 (U)		0.288 (U)
9/15/2020		0.601 (U)	1.36 (U)			
9/16/2020	0.422 (U)					
9/17/2020					0.395 (U)	1.1 (U)
9/18/2020				1.8 (U)		
11/10/2020	0.293 (U)					
12/15/2020	0.7 (U)					
1/19/2021	0.79 (U)					
2/9/2021	0.486 (U)	0.37 (U)	0.324 (U)			
2/10/2021						0.773 (U)
2/11/2021				0.73 (U)		
2/12/2021					1.65	
3/10/2021	0.811 (U)					
3/11/2021		1.07 (U)	0.601 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/16/2021					0.801 (U)	
3/17/2021				1.84		0.228 (U)
8/12/2021		0.922 (U)	0.0804 (U)			
8/13/2021	1.2					
8/18/2021				0.858 (U)		
8/19/2021					0.527 (U)	0.668 (U)
2/1/2022	0.665 (U)					
2/7/2022		0.106 (U)	0.346 (U)			
2/8/2022					0.0242 (U)	0.168 (U)
2/9/2022				0.346 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.618 (U)					
5/24/2016		1.82				
7/12/2016	0.867	1.76				
9/1/2016	0.857 (U)	1.51				
10/25/2016	1.11 (U)	2.69				
12/7/2016	0.964 (U)					
12/8/2016		2.21				
1/26/2017	0.612 (U)	2.26				
3/22/2017	0.437 (U)					
3/23/2017		1.81				
5/25/2017	1.21 (U)	1.63				
4/3/2018	0.409 (U)	2.53				
6/5/2018		1.91				
6/6/2018	0.772 (U)					
10/3/2018	1.08 (U)	2.22				
3/14/2019		1.37 (U)			0.872 (U)	
3/15/2019	0.917 (U)		0.972 (U)	0.977		
4/4/2019			0.791 (U)			
4/5/2019	1.07 (U)	2.22		1.06 (U)	0.932 (U)	
9/25/2019	1.54	2.77	0.751 (U)			
9/26/2019					1.25	
9/27/2019				1.44 (U)		
3/2/2020				0.872 (U)	0.964 (U)	
3/3/2020	1.33	2.35	1.94			
3/27/2020				0.96 (U)		
3/31/2020	0.591 (U)	2.7				
4/1/2020			0.758 (U)		0.914 (U)	2.57
6/17/2020			0.691 (U)			1.43 (U)
9/15/2020		1.65				
9/16/2020	0.295 (U)					
9/17/2020				0.0879 (U)	0.32 (U)	
9/21/2020			0.436 (U)			2.53
2/11/2021	0.831 (U)	1.11	0.317 (U)			
2/12/2021					1.21 (U)	2.26
2/15/2021				0.215 (U)		
3/17/2021				0.981 (U)	0.579 (U)	
3/18/2021	0.856 (U)	1.63	0.5 (U)			0.733 (U)
8/18/2021	0.548 (U)					1.77
8/19/2021		1.45	1.17	0.689 (U)	0.69 (U)	
2/8/2022	1 (U)	0.93 (U)	0.463 (U)	0.0657 (U)		0.967 (U)
2/10/2022					0.919 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	1.36	2.02	1.79	
9/21/2020		3.85		
9/23/2020	0.563 (U)		0.98 (U)	
2/11/2021			0.12 (U)	
2/15/2021		1.52		
3/12/2021			0.578 (U)	
3/19/2021		0.524 (U)		
8/16/2021	0.693 (U)			
8/18/2021		1.67	1.31	0.973 (U)
2/8/2022		1.38	0.345 (U)	0.431 (U)
2/9/2022	0.297 (U)			

Time Series

Constituent: Field pH (s.u.) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	7.27	5.81	7.45	6.51		
7/11/2016	7.06	5.68		6.65		
7/12/2016			7.32			
8/30/2016	7.28	5.63	7.43	7.14		
10/19/2016	7.02	5.46	7.03	7.08		
12/6/2016	7.09	5.38	7.08	7		
1/24/2017	7.2	5.37	7.39	6.16		
3/21/2017	7.01	4.9	6.83	6.07		
5/22/2017	7.11	5.2	7.02			
5/23/2017				6.28		
10/3/2017	7.21	5.3	7.47	6.45		
4/2/2018	7.1	5.4		6.23		
4/3/2018			7.38			
6/4/2018	7.06	5.27	7.38	6.82		
10/1/2018	7.09	5.31	7.13	5.73		
3/11/2019				6.27		
3/12/2019	7.03	5.42	7.29			
4/1/2019			7.16			
4/2/2019	6.86	5.41		6.66		
9/23/2019	7.02	5.33	7.3			
9/24/2019				6.16		
3/2/2020	7.1	5.43	7.12	5.63		
3/25/2020	6.95	5.36	7.4			
3/26/2020				5.77		
9/15/2020	7.15	5.22	7.29	5.75		
9/16/2020						7.52
9/17/2020				7.62		
11/10/2020						7.27
11/11/2020				7.68		
12/15/2020				7.64		7.39
1/19/2021						7.39
1/20/2021				7.68		
2/8/2021	7.11			4.94	7.64	
2/9/2021		5.42	7.23			7.44
3/10/2021	6.95			5.28	7.7	
3/11/2021		5.8	7.33			7.46
8/11/2021	6.98					7.4
8/12/2021		5.05	7.31	5.26	7.7	
2/1/2022	7.19	5.24	7.45			7.52
2/7/2022				5.24	7.85	

Time Series

Constituent: Field pH (s.u.) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		6.62				
5/20/2016			7.58			
5/23/2016				4.56	6.17	7.15
7/11/2016		6.54	7.32			
7/12/2016				4.49	6.17	7.1
8/30/2016		6.38	7.69			
9/1/2016				4.54	6.22	7.29
10/20/2016		6.52	7.43			
10/24/2016				4.63	5.97	
10/25/2016						7.03
12/7/2016				4.6	5.87	6.85
12/8/2016		6.5	7.56			
1/24/2017		6.59	7.52			
1/26/2017				4.8	6.05	7.07
3/21/2017		6.55	7.4			
3/22/2017						7.15
3/23/2017				4.57	5.79	
5/23/2017		6.5	7.53			
5/24/2017				4.61	6.01	7.11
10/3/2017		6.63	7.51			
10/4/2017				4.74	5.82	7.17
4/3/2018		6.59	7.53		5.98	7.07
4/4/2018				4.5		
6/5/2018		6.44	7.37			
6/6/2018				4.49	6.12	7
10/2/2018		6.35	7.36			
10/3/2018				4.67	5.92	6.94
3/12/2019		6.42	7.5			
3/14/2019				4.66	5.71	
3/15/2019						7.09
4/2/2019		6.38	7.46			
4/4/2019					5.66	6.95
4/5/2019				4.67		
9/24/2019		6.4	7.41	4.77	6.33	
9/25/2019						6.92
3/2/2020		6.8	7.67			
3/3/2020				4.77	6	7.1
3/25/2020			7.39			
3/26/2020		6.38			6.03	
3/30/2020				4.57		7.09
9/15/2020		6.33	7.37			
9/16/2020	7.83					
9/17/2020					6.11	7.11
9/18/2020				4.88		
11/10/2020	7.84					
12/15/2020	7.87					
1/19/2021	7.86					
2/9/2021	7.84	6.35	7.4			
2/10/2021						7.08
2/11/2021				4.84		
2/12/2021					5.99	
3/10/2021	7.92					

Time Series

Constituent: Field pH (s.u.) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/11/2021		6.48	7.56			
3/16/2021					6.08	
3/17/2021				4.72		7.19
8/12/2021		6.46	7.47			
8/13/2021	7.77					
8/18/2021				4.9		
8/19/2021					6.18	7.04
2/1/2022	8.25					
2/7/2022		6.51	7.65			
2/8/2022					6.04	7.18
2/9/2022				4.97		

Time Series

Constituent: Field pH (s.u.) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	6.4					
5/24/2016		4.83				
7/12/2016	6.09	4.58				
9/1/2016	6.35	4.51				
10/25/2016	6.23	4.53				
12/7/2016	6.23					
12/8/2016		4.56				
1/26/2017	6.24	4.61				
3/22/2017	6.25					
3/23/2017		4.63				
5/25/2017	6.27	4.69				
10/4/2017	6.18	4.58				
4/3/2018	6.22	4.54				
6/5/2018		4.57				
6/6/2018	6.22					
10/3/2018	6.23	4.41				
3/14/2019		4.39			6.68	
3/15/2019	6.32		6.81	5.95		
4/4/2019			6.7			
4/5/2019	6.26	4.5		5.96	6.66	
9/25/2019	6.28	4.54	6.54			
9/26/2019					6.64	
9/27/2019				5.81		
3/2/2020				5.97	7.05	
3/3/2020	6.35	4.55	6.72			
3/27/2020				5.71		
3/31/2020	6.28	4.43				
4/1/2020			6.9		6.8	4.35
6/17/2020			6.47			4.36
9/15/2020		4.47				
9/16/2020	6.35					
9/17/2020				5.66	6.71	
9/21/2020			6.92			4.48
2/11/2021	6.31	4.53	6.87			
2/12/2021					6.8	4.4
2/15/2021				5.48		
3/17/2021				5.57	6.86	
3/18/2021	6.43	4.54	6.95			4.27
8/18/2021	6.43					4.42
8/19/2021		4.43	6.85	6.05	6.72	
2/8/2022	6.42	4.59	7.09	5.37		4.42
2/10/2022					6.87	

Time Series

Constituent: Field pH (s.u.) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/17/2020	7.35	5.46	7.78	
9/21/2020		5.4		
9/23/2020	7.05		7.62	
2/11/2021			7.42	
2/15/2021		4.82		
3/12/2021			7.5	
3/19/2021		4.89		
8/16/2021	7.05			
8/18/2021		4.89	7.52	6.19
2/8/2022		4.86	7.63	6.57
2/9/2022	7.21			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)	0.036 (J)		
7/11/2016	0.16 (J)	0.05 (J)		0.09 (J)		
7/12/2016			0.12 (J)			
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)	0.06 (J)		
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)	0.07 (J)		
12/6/2016	0.11 (J)	0.36	0.21 (J)	0.07 (J)		
1/24/2017	0.09 (J)	<0.1	0.06 (J)	<0.1		
3/21/2017	0.13 (J)	<0.1	0.005 (J)	<0.1		
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/23/2017				0.01 (J)		
10/3/2017	0.13 (J)	<0.1	0.13 (J)	<0.1		
4/2/2018	<0.1	<0.1		<0.1		
4/3/2018			<0.1			
6/4/2018	0.074 (J)	<0.1	<0.1	0.097 (J)		
10/1/2018	<0.1	<0.1	<0.1	<0.1		
3/11/2019				0.035 (J)		
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)		<0.1		
9/23/2019	0.078 (J)	<0.1	<0.1			
9/24/2019				<0.1		
3/2/2020	0.076 (J)	<0.1	<0.1	<0.1		
3/25/2020	0.098 (J)	<0.1	<0.1			
3/26/2020				<0.1		
9/15/2020	0.082 (J)	<0.1	<0.1	<0.1		
9/16/2020						0.22
9/17/2020					0.2	
11/10/2020						0.19
11/11/2020					0.1	
12/15/2020					0.11	0.21
1/19/2021						0.16
1/20/2021					0.082 (J)	
2/8/2021	0.078 (J)			<0.1	0.096 (J)	
2/9/2021		<0.1	0.074 (J)			0.19
3/10/2021	0.079 (J)			<0.1	0.11	
3/11/2021		0.1	<0.1			0.2
8/11/2021	0.058 (J)					0.15
8/12/2021		<0.1	<0.1	<0.1	0.079 (J)	
2/1/2022	0.064 (J)	<0.1	<0.1			0.19
2/7/2022				<0.1	0.085 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.08 (J)				
5/20/2016			0.065 (J)			
5/23/2016				<0.1	<0.1	0.038 (J)
7/11/2016		0.09 (J)	0.13 (J)			
7/12/2016				0.2 (J)	0.09 (J)	0.26 (J)
8/30/2016		0.08 (J)	0.07 (J)			
9/1/2016				0.08 (J)	0.22 (J)	0.42
10/20/2016		0.1 (J)	0.06 (J)			
10/24/2016				0.04 (J)	0.07 (J)	
10/25/2016						0.25 (J)
12/7/2016				0.11 (J)	0.23 (J)	0.23 (J)
12/8/2016		0.08 (J)	0.06 (J)			
1/24/2017		0.09 (J)	0.02 (J)			
1/26/2017				0.13 (J)	<0.1	0.02 (J)
3/21/2017		0.04 (J)	0.08 (J)			
3/22/2017						0.3
3/23/2017				0.28 (J)	0.12 (J)	
5/23/2017		0.04 (J)	0.006 (J)			
5/24/2017				0.32	0.31	0.46
10/3/2017		0.06 (J)	<0.1			
10/4/2017				0.52	0.6	<0.1
4/3/2018		<0.1	<0.1		<0.1	<0.1
4/4/2018				<0.1		
6/5/2018		0.083 (J)	0.055 (J)			
6/6/2018				0.25 (J)	0.17 (J)	<0.1
10/2/2018		<0.1	0.076 (J)			
10/3/2018				0.21 (J)	<0.1	<0.1
3/12/2019		0.079 (J)	0.061 (J)			
3/14/2019				0.24 (J)	<0.1	
3/15/2019						<0.1
4/2/2019		0.12 (J)	<0.1			
4/4/2019					0.066 (J)	<0.1
4/5/2019				0.66		
9/24/2019		0.058 (J)	<0.1	0.053 (J)	0.12 (J)	
9/25/2019						<0.1
3/2/2020		0.053 (J)	<0.1			
3/3/2020				<0.1	0.064 (J)	<0.1
3/25/2020			<0.1			
3/26/2020		0.066 (J)			<0.1	
3/30/2020				0.092 (J)		0.059 (J)
9/15/2020		0.061 (J)	<0.1			
9/16/2020	0.52					
9/17/2020					<0.1	<0.1
9/18/2020				<0.1		
11/10/2020	0.59					
12/15/2020	0.67					
1/19/2021	0.74					
2/9/2021	0.44	0.053 (J)	<0.1			
2/10/2021						0.21
2/11/2021				0.059 (J)		
2/12/2021					0.053 (J)	
3/10/2021	0.65					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/11/2021		0.06 (J)	0.17			
3/16/2021					<0.1	
3/17/2021				0.076 (J)		<0.1
8/12/2021		<0.1	<0.1			
8/13/2021	0.87					
8/18/2021				<0.1		
8/19/2021					<0.1	<0.1
2/1/2022	0.96					
2/7/2022		<0.1	<0.1			
2/8/2022					<0.1	<0.1
2/9/2022				0.053 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.1					
5/24/2016		<0.1				
7/12/2016	0.09 (J)	0.54				
9/1/2016	0.03 (J)	0.49				
10/25/2016	0.07 (J)	0.58				
12/7/2016	0.54					
12/8/2016		0.63				
1/26/2017	<0.1	0.71				
3/22/2017	0.07 (J)					
3/23/2017		0.57				
5/25/2017	0.42	0.54				
10/4/2017	0.93	0.95				
4/3/2018	<0.1	0.33				
6/5/2018		0.66				
6/6/2018	0.23 (J)					
10/3/2018	<0.1	0.32				
3/14/2019		0.88			<0.1	
3/15/2019	<0.1		<0.1	<0.1		
4/4/2019			0.1 (J)			
4/5/2019	0.16 (J)	0.37		0.13 (J)	0.14 (J)	
9/25/2019	0.081 (J)	0.73	<0.1			
9/26/2019					0.16 (J)	
9/27/2019				0.28 (J)		
1/22/2020						0.18 (J)
3/2/2020				<0.1	<0.1	
3/3/2020	<0.1	0.34	<0.1			
3/27/2020				<0.1		
3/31/2020	<0.1	0.45				
4/1/2020			<0.1		<0.1	0.15 (J)
6/17/2020			<0.1			0.25
9/15/2020		0.31				
9/16/2020	0.058 (J)					
9/17/2020				<0.1	<0.1	
9/21/2020			<0.1			0.14
2/11/2021	0.058 (J)	0.71	<0.1			
2/12/2021					<0.1	0.25
2/15/2021				<0.1		
3/17/2021				<0.1	<0.1	
3/18/2021	0.057 (J)	0.64	<0.1			0.4
8/18/2021	0.062 (J)					0.16
8/19/2021		0.31	<0.1	<0.1	<0.1	
2/8/2022	0.055 (J)	0.19	<0.1	<0.1		0.14
2/10/2022					<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.082 (J)	0.053 (J)	0.1	
9/21/2020		<0.1		
9/23/2020	<0.1		0.065 (J)	
2/11/2021			0.077 (J)	
2/15/2021		0.093 (J)		
3/12/2021			0.061 (J)	
3/19/2021		0.082 (J)		
8/16/2021	0.066 (J)			
8/18/2021		0.052 (J)	0.05 (J)	0.072 (J)
2/8/2022		0.065 (J)	0.055 (J)	0.078 (J)
2/9/2022	0.051 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.001	<0.001	<0.001	<0.001		
7/11/2016	<0.001	<0.001		<0.001		
7/12/2016			0.0001 (J)			
8/30/2016	<0.001	<0.001	<0.001	<0.001		
10/19/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016	<0.001	<0.001	<0.001	0.0002 (J)		
1/24/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)	<0.001		
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/23/2017				<0.001		
4/2/2018	<0.001	<0.001		<0.001		
4/3/2018			<0.001			
3/11/2019				<0.001		
3/12/2019	<0.001	<0.001	<0.001			
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001		<0.001		
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
9/24/2019				<0.001		
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001	0.00026 (J)		
3/25/2020	<0.001	0.00011 (J)	<0.001			
3/26/2020				5.9E-05 (J)		
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)	4.9E-05 (J)		
9/16/2020						5E-05 (J)
9/17/2020					6.2E-05 (J)	
11/10/2020						6.9E-05 (J)
11/11/2020					8.4E-05 (J)	
12/15/2020					0.00045 (J)	8.2E-05 (J)
1/19/2021						4.4E-05 (J)
1/20/2021					<0.001	
2/8/2021	5.8E-05 (J)			0.00024 (J)	8.1E-05 (J)	
2/9/2021		9.4E-05 (J)	<0.001			0.00029 (J)
3/10/2021	<0.001			0.00016 (J)	<0.001	
3/11/2021		7.6E-05 (J)	<0.001			9.4E-05 (J)
8/11/2021	<0.001					<0.001
8/12/2021		<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001			<0.001
2/7/2022				<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.001				
5/20/2016			<0.001			
5/23/2016				0.00182 (J)	<0.001	<0.001
7/11/2016		<0.001	<0.001			
7/12/2016				0.0015 (J)	<0.001	<0.001
8/30/2016		<0.001	<0.001			
9/1/2016				0.0016 (J)	<0.001	<0.001
10/20/2016		0.0002 (J)	<0.001			
10/24/2016				0.0016 (J)	<0.001	
10/25/2016						<0.001
12/7/2016				0.0018 (J)	<0.001	<0.001
12/8/2016		<0.001	<0.001			
1/24/2017		<0.001	<0.001			
1/26/2017				0.002 (J)	<0.001	0.0001 (J)
3/21/2017		<0.001	<0.001			
3/22/2017						0.0002 (J)
3/23/2017				0.0019 (J)	0.001 (J)	
5/23/2017		9E-05 (J)	0.0003 (J)			
5/24/2017				0.0016 (J)	0.0001 (J)	0.0001 (J)
4/3/2018		<0.001	<0.001		<0.001	<0.001
4/4/2018				<0.001		
3/12/2019		<0.001	<0.001			
3/14/2019				0.0014 (J)	<0.001	
3/15/2019						<0.001
4/2/2019		<0.001	<0.001			
4/4/2019					7.2E-05 (J)	0.00016 (J)
4/5/2019				0.0012 (J)		
9/24/2019		<0.001	7.1E-05 (J)	0.0013 (J)	0.0002 (J)	
9/25/2019						<0.001
3/2/2020		<0.001	<0.001			
3/3/2020				0.0017 (J)	5.3E-05 (J)	0.00016 (J)
3/25/2020			<0.001			
3/26/2020		<0.001			<0.001	
3/30/2020				0.0015 (J)		7.3E-05 (J)
9/15/2020		<0.001	<0.001			
9/16/2020	0.00021 (J)					
9/17/2020					<0.001	7.8E-05 (J)
9/18/2020				0.0012 (J)		
11/10/2020	0.0002 (J)					
12/15/2020	0.00011 (J)					
1/19/2021	0.00019 (J)					
2/9/2021	0.0001 (J)	<0.001	<0.001			
2/10/2021						9.4E-05 (J)
2/11/2021				0.0015 (J)		
2/12/2021					<0.001	
3/10/2021	<0.001					
3/11/2021		<0.001	<0.001			
3/16/2021					<0.001	
3/17/2021				0.0019		5.8E-05 (J)
8/12/2021		<0.001	<0.001			
8/13/2021	<0.001					
8/18/2021				0.0015		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.001	<0.001
2/1/2022	<0.001					
2/7/2022		<0.001	<0.001			
2/8/2022					<0.001	<0.001
2/9/2022				0.0014		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.001					
5/24/2016		0.00154 (J)				
7/12/2016	<0.001	0.0012 (J)				
9/1/2016	<0.001	0.0014 (J)				
10/25/2016	<0.001	0.0015 (J)				
12/7/2016	<0.001					
12/8/2016		0.0017 (J)				
1/26/2017	<0.001	0.0013 (J)				
3/22/2017	0.0001 (J)					
3/23/2017		0.001 (J)				
5/25/2017	<0.001	0.0012 (J)				
4/3/2018	<0.001	<0.001				
3/14/2019		0.0015 (J)			<0.001	
3/15/2019	<0.001		<0.001	<0.001		
4/4/2019			<0.001			
4/5/2019	7.6E-05 (J)	0.0015 (J)		<0.001	<0.001	
9/25/2019	8.9E-05 (J)	0.0015 (J)	<0.001			
9/26/2019					<0.001	
9/27/2019				0.0001 (J)		
3/2/2020				9.4E-05 (J)	5.1E-05 (J)	
3/3/2020	0.00013 (J)	0.0013 (J)	4.7E-05 (J)			
3/27/2020				<0.001		
3/31/2020	7.7E-05 (J)	0.0014 (J)				
4/1/2020			4.8E-05 (J)		<0.001	0.0017 (J)
6/17/2020			<0.001			0.0017 (J)
9/15/2020		0.0014 (J)				
9/16/2020	6.5E-05 (J)					
9/17/2020				<0.001	0.00016 (J)	
9/21/2020			<0.001			0.0017 (J)
2/11/2021	0.00018 (J)	0.00098 (J)	0.00066 (J)			
2/12/2021					<0.001	0.0018 (J)
2/15/2021				3.6E-05 (J)		
3/17/2021				<0.001	<0.001	
3/18/2021	8.8E-05 (J)	0.00096 (J)	7.3E-05 (J)			0.0017
8/18/2021	<0.001					0.0016
8/19/2021		0.0013	<0.001	<0.001	<0.001	
2/8/2022	<0.001	0.0009 (J)	<0.001	<0.001		0.0014
2/10/2022					<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00087 (J)	0.00016 (J)	0.0017 (J)	
9/21/2020		0.00099 (J)		
9/23/2020	<0.001		8.2E-05 (J)	
2/11/2021			0.00039 (J)	
2/15/2021		0.00055 (J)		
3/12/2021			<0.001	
3/19/2021		0.00066 (J)		
8/16/2021	<0.001			
8/18/2021		<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001
2/9/2022	<0.001			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.03	<0.03	<0.03	<0.03		
7/11/2016	<0.03	0.0014 (J)		0.0015 (J)		
7/12/2016			0.0024 (J)			
8/30/2016	<0.03	<0.03	0.0025 (J)	0.0027 (J)		
10/19/2016	<0.03	<0.03	0.003 (J)	0.0042 (J)		
12/6/2016	<0.03	<0.03	0.0033 (J)	0.0046 (J)		
1/24/2017	<0.03	<0.03	0.003 (J)	<0.03		
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)	<0.03		
5/22/2017	<0.03	<0.03	0.003 (J)			
5/23/2017				<0.03		
4/2/2018	<0.03	0.0015 (J)		<0.03		
4/3/2018			0.003 (J)			
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)	0.00097 (J)		
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)	<0.03		
3/11/2019				<0.03		
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)		0.00098 (J)		
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/24/2019				<0.03		
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)	0.0012 (J)		
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
3/26/2020				0.00095 (J)		
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)	<0.03		
9/16/2020						0.0018 (J)
9/17/2020				0.0039 (J)		
11/10/2020						0.0013 (J)
11/11/2020				0.0086 (J)		
12/15/2020				0.008 (J)		0.0019 (J)
1/19/2021						0.0025 (J)
1/20/2021				0.01 (J)		
2/8/2021	0.00086 (J)			0.0013 (J)	0.0098 (J)	
2/9/2021		0.0012 (J)	0.0032 (J)			0.0026 (J)
3/10/2021	0.0009 (J)			0.0011 (J)	0.0094 (J)	
3/11/2021		0.0011 (J)	0.0035 (J)			0.0022 (J)
8/11/2021	0.00078 (J)					0.0024 (J)
8/12/2021		0.0012 (J)	0.0028 (J)	0.0013 (J)	0.0096 (J)	
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)			0.0024 (J)
2/7/2022				0.0013 (J)	0.0097 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.03				
5/20/2016			<0.03			
5/23/2016				<0.03	<0.03	<0.03
7/11/2016		0.0034 (J)	0.01 (J)			
7/12/2016				<0.03	<0.03	0.0037 (J)
8/30/2016		0.003 (J)	0.0095 (J)			
9/1/2016				<0.03	0.0021 (J)	0.0033 (J)
10/20/2016		0.0031 (J)	0.0105 (J)			
10/24/2016				<0.03	<0.03	
10/25/2016						0.0029 (J)
12/7/2016				<0.03	<0.03	0.0029 (J)
12/8/2016		0.0027 (J)	0.01 (J)			
1/24/2017		0.0028 (J)	0.0108 (J)			
1/26/2017				<0.03	<0.03	0.0028 (J)
3/21/2017		0.0037 (J)	0.0115 (J)			
3/22/2017						0.0025 (J)
3/23/2017				<0.03	0.0016 (J)	
5/23/2017		0.0033 (J)	0.011 (J)			
5/24/2017				<0.03	0.0029 (J)	0.0029 (J)
4/3/2018		0.0033 (J)	0.012 (J)		0.0026 (J)	0.0028 (J)
4/4/2018				<0.03		
6/5/2018		0.0034 (J)	0.011 (J)			
6/6/2018				<0.03	0.0013 (J)	0.0031 (J)
10/2/2018		0.0035 (J)	0.01 (J)			
10/3/2018				<0.03	0.0017 (J)	0.0026 (J)
3/12/2019		0.0032 (J)	0.011 (J)			
3/14/2019				<0.03	<0.03	
3/15/2019						0.0041 (J)
4/2/2019		0.0028 (J)	0.0095 (J)			
4/4/2019					0.0009 (J)	0.0032 (J)
4/5/2019				<0.03		
9/24/2019		0.0035 (J)	0.011 (J)	<0.03	0.0012 (J)	
9/25/2019						0.0038 (J)
3/2/2020		0.0036 (J)	0.012			
3/3/2020				<0.03	0.0084 (J)	0.0047 (J)
3/25/2020			0.011 (J)			
3/26/2020		0.0029 (J)			0.0061 (J)	
3/30/2020				<0.03		0.0041 (J)
9/15/2020		0.003 (J)	0.0095 (J)			
9/16/2020	0.014 (J)					
9/17/2020					0.0094 (J)	0.0043 (J)
9/18/2020				<0.03		
11/10/2020	0.025 (J)					
12/15/2020	0.028 (J)					
1/19/2021	0.034					
2/9/2021	0.026 (J)	0.003 (J)	0.01 (J)			
2/10/2021						0.0038 (J)
2/11/2021				<0.03		
2/12/2021					0.036	
3/10/2021	0.03					
3/11/2021		0.0037 (J)	0.012 (J)			
3/16/2021					0.032	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.03		0.0048 (J)
8/12/2021		0.0032 (J)	0.0094 (J)			
8/13/2021	0.032					
8/18/2021				<0.03		
8/19/2021					0.0058 (J)	0.0042 (J)
2/1/2022	0.048					
2/7/2022		0.0029 (J)	0.0097 (J)			
2/8/2022					0.014 (J)	0.0034 (J)
2/9/2022				<0.03		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.03					
5/24/2016		0.0142 (J)				
7/12/2016	<0.03	0.0141 (J)				
9/1/2016	<0.03	0.0158 (J)				
10/25/2016	<0.03	0.016 (J)				
12/7/2016	<0.03					
12/8/2016		0.0144 (J)				
1/26/2017	<0.03	0.0136 (J)				
3/22/2017	<0.03					
3/23/2017		0.0151 (J)				
5/25/2017	0.0011 (J)	0.0154 (J)				
4/3/2018	<0.03	0.013 (J)				
6/5/2018		0.013 (J)				
6/6/2018	<0.03					
10/3/2018	<0.03	0.015 (J)				
3/14/2019		0.011 (J)			0.0028 (J)	
3/15/2019	0.0011 (J)		0.025 (J)	0.002 (J)		
4/4/2019			0.019 (J)			
4/5/2019	0.00074 (J)	0.0084 (J)		0.0013 (J)	0.0021 (J)	
9/25/2019	0.0011 (J)	0.015 (J)	0.024 (J)			
9/26/2019					0.0023 (J)	
9/27/2019				0.0013 (J)		
3/2/2020				0.0015 (J)	0.0025 (J)	
3/3/2020	0.0012 (J)	0.012 (J)	0.026 (J)			
3/27/2020				0.0013 (J)		
3/31/2020	0.0009 (J)	0.012 (J)				
4/1/2020			0.026 (J)		0.0024 (J)	0.0011 (J)
6/17/2020			0.023 (J)			0.00097 (J)
9/15/2020		0.014 (J)				
9/16/2020	0.0012 (J)					
9/17/2020				0.0011 (J)	0.0021 (J)	
9/21/2020			0.022 (J)			0.00086 (J)
2/11/2021	0.0013 (J)	0.011 (J)	0.021 (J)			
2/12/2021					0.0023 (J)	0.0011 (J)
2/15/2021				0.0011 (J)		
3/17/2021				0.0012 (J)	0.0024 (J)	
3/18/2021	0.0014 (J)	0.013 (J)	0.026 (J)			0.0012 (J)
8/18/2021	0.0012 (J)					0.00097 (J)
8/19/2021		0.013 (J)	0.022 (J)	0.0012 (J)	0.0022 (J)	
2/8/2022	0.0014 (J)	0.01 (J)	0.022 (J)	0.0011 (J)		0.001 (J)
2/10/2022					0.0029 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0021 (J)	0.0046 (J)	0.038 (J)	
9/21/2020		0.0036 (J)		
9/23/2020	0.0011 (J)		0.031	
2/11/2021			0.034	
2/15/2021		0.0043 (J)		
3/12/2021			0.035	
3/19/2021		0.0045 (J)		
8/16/2021	0.001 (J)			
8/18/2021		0.0036 (J)	0.03	0.0022 (J)
2/8/2022		0.0039 (J)	0.029 (J)	0.001 (J)
2/9/2022	0.0022 (J)			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0002	<0.0002	<0.0002	<0.0002		
7/11/2016	<0.0002	<0.0002		<0.0002		
7/12/2016			<0.0002			
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002	5E-05 (J)		
10/19/2016	<0.0002	<0.0002	<0.0002	<0.0002		
12/6/2016	<0.0002	<0.0002	<0.0002	5E-05 (J)		
1/24/2017	<0.0002	<0.0002	<0.0002	0.0001 (J)		
3/21/2017	<0.0002	<0.0002	<0.0002	0.00016 (J)		
5/22/2017	<0.0002	<0.0002	<0.0002			
5/23/2017				5E-05 (J)		
4/2/2018	<0.0002	<0.0002		<0.0002		
4/3/2018			<0.0002			
3/11/2019				<0.0002		
3/12/2019	<0.0002	<0.0002	<0.0002			
3/2/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/16/2020						<0.0002
9/17/2020					<0.0002	
11/10/2020						<0.0002
11/11/2020					<0.0002	
12/15/2020					<0.0002	<0.0002
1/19/2021						<0.0002
1/20/2021					<0.0002	
2/8/2021	<0.0002			<0.0002	<0.0002	
2/9/2021		<0.0002	<0.0002			<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002			<0.0002
2/7/2022				<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0002				
5/20/2016			<0.0002			
5/23/2016				<0.0002	<0.0002	<0.0002
7/11/2016		<0.0002	<0.0002			
7/12/2016				<0.0002	<0.0002	<0.0002
8/30/2016		<0.0002	4.4E-05 (J)			
9/1/2016				<0.0002	<0.0002	<0.0002
10/20/2016		<0.0002	<0.0002			
10/24/2016				<0.0002	<0.0002	
10/25/2016						<0.0002
12/7/2016				<0.0002	<0.0002	<0.0002
12/8/2016		<0.0002	<0.0002			
1/24/2017		<0.0002	<0.0002			
1/26/2017				<0.0002	<0.0002	<0.0002
3/21/2017		<0.0002	<0.0002			
3/22/2017						<0.0002
3/23/2017				<0.0002	<0.0002	
5/23/2017		<0.0002	<0.0002			
5/24/2017				<0.0002	<0.0002	<0.0002
4/3/2018		<0.0002	<0.0002		<0.0002	<0.0002
4/4/2018				<0.0002		
3/12/2019		<0.0002	<0.0002			
3/14/2019				<0.0002	<0.0002	
3/15/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020				<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002					
11/10/2020	<0.0002					
12/15/2020	<0.0002					
1/19/2021	<0.0002					
2/9/2021	<0.0002	<0.0002	<0.0002			
2/10/2021						<0.0002
2/11/2021				<0.0002		
2/12/2021					<0.0002	
2/1/2022	<0.0002					
2/7/2022		<0.0002	<0.0002			
2/8/2022					<0.0002	<0.0002
2/9/2022				<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0002					
5/24/2016		<0.0002				
7/12/2016	<0.0002	<0.0002				
9/1/2016	<0.0002	6E-05 (J)				
10/25/2016	<0.0002	4E-05 (J)				
12/7/2016	<0.0002					
12/8/2016		<0.0002				
1/26/2017	<0.0002	8E-05 (J)				
3/22/2017	<0.0002					
3/23/2017		9E-05 (J)				
5/25/2017	<0.0002	8E-05 (J)				
4/3/2018	<0.0002	<0.0002				
3/14/2019		<0.0002			<0.0002	
3/15/2019	<0.0002		<0.0002	<0.0002		
3/2/2020				<0.0002	<0.0002	
3/3/2020	<0.0002	<0.0002	<0.0002			
2/11/2021	<0.0002	<0.0002	<0.0002			
2/12/2021					<0.0002	<0.0002
2/15/2021				<0.0002		
2/8/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022					<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
2/11/2021			<0.0002	
2/15/2021		<0.0002		
2/8/2022		0.00014 (J)	<0.0002	<0.0002
2/9/2022	<0.0002			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.01	<0.01	<0.01	<0.01		
7/11/2016	<0.01	<0.01		<0.01		
7/12/2016			<0.01			
8/30/2016	<0.01	<0.01	<0.01	<0.01		
10/19/2016	<0.01	<0.01	<0.01	<0.01		
12/6/2016	<0.01	<0.01	<0.01	<0.01		
1/24/2017	<0.01	<0.01	<0.01	<0.01		
3/21/2017	<0.01	<0.01	<0.01	<0.01		
5/22/2017	<0.01	<0.01	<0.01			
5/23/2017				<0.01		
4/2/2018	<0.01	<0.01		<0.01		
4/3/2018			<0.01			
3/11/2019				<0.01		
3/12/2019	<0.01	<0.01	<0.01			
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01		<0.01		
9/23/2019	<0.01	<0.01	<0.01			
9/24/2019				<0.01		
3/2/2020	<0.01	<0.01	<0.01	<0.01		
3/25/2020	<0.01	<0.01	<0.01			
3/26/2020				<0.01		
9/15/2020	<0.01	<0.01	<0.01	<0.01		
9/16/2020						0.0044 (J)
9/17/2020					0.0037 (J)	
11/10/2020						0.0072 (J)
11/11/2020				<0.01		
12/15/2020				0.00082 (J)		0.0044 (J)
1/19/2021						0.0038 (J)
1/20/2021				<0.01		
2/8/2021	<0.01			<0.01	<0.01	
2/9/2021		<0.01	<0.01			0.0045 (J)
3/10/2021	<0.01			<0.01	<0.01	
3/11/2021		<0.01	<0.01			0.0064 (J)
8/11/2021	<0.01					0.0034 (J)
8/12/2021		<0.01	<0.01	<0.01	<0.01	
2/1/2022	<0.01	<0.01	<0.01			0.0036 (J)
2/7/2022				<0.01	0.00099 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.01				
5/20/2016			<0.01			
5/23/2016				<0.01	<0.01	<0.01
7/11/2016		<0.01	0.0008 (J)			
7/12/2016				<0.01	0.0007 (J)	<0.01
8/30/2016		<0.01	<0.01			
9/1/2016				<0.01	<0.01	<0.01
10/20/2016		<0.01	<0.01			
10/24/2016				<0.01	<0.01	
10/25/2016						<0.01
12/7/2016				<0.01	<0.01	<0.01
12/8/2016		<0.01	<0.01			
1/24/2017		<0.01	<0.01			
1/26/2017				<0.01	<0.01	<0.01
3/21/2017		<0.01	0.0002 (J)			
3/22/2017						<0.01
3/23/2017				<0.01	<0.01	
5/23/2017		<0.01	<0.01			
5/24/2017				<0.01	<0.01	<0.01
4/3/2018		<0.01	<0.01		<0.01	<0.01
4/4/2018				<0.01		
3/12/2019		<0.01	<0.01			
3/14/2019				<0.01	<0.01	
3/15/2019						<0.01
4/2/2019		<0.01	<0.01			
4/4/2019					<0.01	<0.01
4/5/2019				<0.01		
9/24/2019		<0.01	<0.01	<0.01	<0.01	
9/25/2019						<0.01
3/2/2020		<0.01	<0.01			
3/3/2020				<0.01	<0.01	<0.01
3/25/2020			<0.01			
3/26/2020		<0.01			<0.01	
3/30/2020				<0.01		<0.01
9/15/2020		<0.01	<0.01			
9/16/2020	0.0019 (J)					
9/17/2020					<0.01	<0.01
9/18/2020				<0.01		
11/10/2020	0.0018 (J)					
12/15/2020	0.0019 (J)					
1/19/2021	0.0035 (J)					
2/9/2021	0.0038 (J)	<0.01	<0.01			
2/10/2021						<0.01
2/11/2021				<0.01		
2/12/2021					<0.01	
3/10/2021	0.0019 (J)					
3/11/2021		<0.01	<0.01			
3/16/2021					<0.01	
3/17/2021				<0.01		<0.01
8/12/2021		<0.01	<0.01			
8/13/2021	0.0051 (J)					
8/18/2021				<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.01	<0.01
2/1/2022	0.0055 (J)					
2/7/2022		<0.01	<0.01			
2/8/2022					<0.01	<0.01
2/9/2022				<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.01					
5/24/2016		<0.01				
7/12/2016	<0.01	<0.01				
9/1/2016	<0.01	<0.01				
10/25/2016	<0.01	<0.01				
12/7/2016	<0.01					
12/8/2016		<0.01				
1/26/2017	<0.01	<0.01				
3/22/2017	<0.01					
3/23/2017		<0.01				
5/25/2017	<0.01	<0.01				
4/3/2018	<0.01	<0.01				
3/14/2019		<0.01			<0.01	
3/15/2019	<0.01		0.045	<0.01		
4/4/2019			0.033			
4/5/2019	<0.01	<0.01		0.00013 (J)	0.0014 (J)	
9/25/2019	<0.01	<0.01	0.038			
9/26/2019					0.0025 (J)	
9/27/2019				<0.01		
3/2/2020				<0.01	0.003 (J)	
3/3/2020	<0.01	<0.01	0.025			
3/27/2020				<0.01		
3/31/2020	<0.01	<0.01				
4/1/2020			0.024		0.0032 (J)	<0.01
6/17/2020			0.019			<0.01
9/15/2020		<0.01				
9/16/2020	<0.01					
9/17/2020				<0.01	0.0026 (J)	
9/21/2020			0.017			<0.01
2/11/2021	<0.01	<0.01	0.016			
2/12/2021					0.0039 (J)	<0.01
2/15/2021				<0.01		
3/17/2021				<0.01	0.0034 (J)	
3/18/2021	<0.01	<0.01	0.016			<0.01
8/18/2021	<0.01					<0.01
8/19/2021		<0.01	0.018	<0.01	0.0034 (J)	
2/8/2022	<0.01	<0.01	0.016	<0.01		<0.01
2/10/2022					0.0034 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	<0.01	<0.01	0.023	
9/21/2020		<0.01		
9/23/2020	<0.01		0.015	
2/11/2021			0.019	
2/15/2021		<0.01		
3/12/2021			0.014	
3/19/2021		<0.01		
8/16/2021	<0.01			
8/18/2021		<0.01	0.0083 (J)	<0.01
2/8/2022		<0.01	0.007 (J)	<0.01
2/9/2022	<0.01			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	<0.005	<0.005	<0.005		
7/11/2016	<0.005	<0.005		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	<0.005	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	<0.005	<0.005	<0.005	<0.005		
5/22/2017	<0.005	<0.005	<0.005			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	<0.005	<0.005	<0.005		
10/1/2018	<0.005	<0.005	<0.005	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	<0.005	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005		<0.005		
9/23/2019	<0.005	<0.005	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	<0.005	<0.005	<0.005		
3/25/2020	<0.005	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020				<0.005		
12/15/2020				<0.005		<0.005
1/19/2021						<0.005
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	<0.005	
2/9/2021		<0.005	<0.005			<0.005
3/10/2021	0.0047 (J)			<0.005	<0.005	
3/11/2021		<0.005	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	<0.005	<0.005	<0.005			<0.005
2/7/2022				<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				0.017	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				0.0146	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				0.0137	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				0.0135	0.0012 (J)	
10/25/2016						<0.005
12/7/2016				0.01 (J)	0.0041 (J)	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		0.0011 (J)	<0.005			
1/26/2017				0.0214	<0.005	<0.005
3/21/2017		<0.005	<0.005			
3/22/2017						<0.005
3/23/2017				0.0167	0.0016 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				0.0083 (J)	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				0.012		
6/5/2018		<0.005	<0.005			
6/6/2018				0.014	<0.005	<0.005
10/2/2018		<0.005	<0.005			
10/3/2018				0.0056 (J)	<0.005	<0.005
3/12/2019		<0.005	<0.005			
3/14/2019				0.0048 (J)	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					0.00021 (J)	8.9E-05 (J)
4/5/2019				0.00091 (J)		
9/24/2019		<0.005	<0.005	0.0064 (J)	<0.005	
9/25/2019						<0.005
3/2/2020		<0.005	<0.005			
3/3/2020				0.0045 (J)	<0.005	<0.005
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.0049 (J)		<0.005
9/15/2020		<0.005	<0.005			
9/16/2020	<0.005					
9/17/2020					<0.005	<0.005
9/18/2020				0.0045 (J)		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	<0.005	<0.005	<0.005			
2/10/2021						<0.005
2/11/2021				0.0072 (J)		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		<0.005	<0.005			
3/16/2021					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.01 (J)		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.0077		
8/19/2021					<0.005	<0.005
2/1/2022	<0.005					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				0.0047 (J)		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		<0.005				
7/12/2016	<0.005	0.036				
9/1/2016	0.0014 (J)	0.0347				
10/25/2016	<0.005	0.0282				
12/7/2016	0.0023 (J)					
12/8/2016		0.0373				
1/26/2017	<0.005	0.0385				
3/22/2017	<0.005					
3/23/2017		0.0414				
5/25/2017	<0.005	0.019				
4/3/2018	<0.005	0.029				
6/5/2018		0.038				
6/6/2018	<0.005					
10/3/2018	<0.005	0.017				
3/14/2019		0.016			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			<0.005			
4/5/2019	9.3E-05 (J)	0.0018 (J)		<0.005	<0.005	
9/25/2019	<0.005	0.02	<0.005			
9/26/2019					<0.005	
9/27/2019				<0.005		
3/2/2020				<0.005	<0.005	
3/3/2020	<0.005	0.014	<0.005			
3/27/2020				<0.005		
3/31/2020	<0.005	0.019				
4/1/2020			<0.005		<0.005	0.011
6/17/2020			<0.005			0.014
9/15/2020		0.059				
9/16/2020	<0.005					
9/17/2020				0.002 (J)	<0.005	
9/21/2020			<0.005			0.041
2/11/2021	<0.005	0.023	<0.005			
2/12/2021					<0.005	0.011
2/15/2021				<0.005		
3/17/2021				<0.005	<0.005	
3/18/2021	<0.005	0.019 (J)	<0.005			0.028
8/18/2021	<0.005					0.014
8/19/2021		0.01	<0.005	<0.005	<0.005	
2/8/2022	<0.005	0.0082	<0.005	<0.005		0.0078
2/10/2022					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0025 (J)	0.014	<0.005	
9/21/2020		0.037		
9/23/2020	<0.005		<0.005	
2/11/2021			<0.005	
2/15/2021		0.01		
3/12/2021			<0.005	
3/19/2021		0.016 (J)		
8/16/2021	<0.005			
8/18/2021		0.014	<0.005	0.004 (J)
2/8/2022		0.0083	<0.005	<0.005
2/9/2022	<0.005			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	66.9	48.6	42.3	1.22		
7/11/2016	41	45		3.7		
7/12/2016			44			
8/30/2016	36	42	40	6.8		
10/19/2016	46	44	43	11		
12/6/2016	59	44	43	13		
1/24/2017	46	46	48	5.7		
3/21/2017	63	46	45	1.7		
5/22/2017	77	48	46			
5/23/2017				1.5		
10/3/2017	42	47	48	1.3		
6/4/2018	71.8	47.8	46.6	4.9		
10/1/2018	49.1	48.1	48.6	0.59 (J)		
4/1/2019			50.4			
4/2/2019	84.3	48.7		4.9		
9/23/2019	70.2	47.2	43.9			
9/24/2019				<1		
3/25/2020	85.9	46.3	50.5			
3/26/2020				<1		
9/15/2020	47.3	51.5	44.7	<1		
9/16/2020						43
9/17/2020				10.9		
11/10/2020						39
11/11/2020				9.4		
12/15/2020				10.9		38.8
1/19/2021						37.3
1/20/2021				9.8		
3/10/2021	49.6			1.2	10.8	
3/11/2021		52.9	50.4			38.6
8/11/2021	48.9					30.5
8/12/2021		47.4	38.6	1.1	7.8	
2/1/2022	43.7	67.1	46			37.5
2/7/2022				2.9	10.4	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		25				
5/20/2016			34.4			
5/23/2016				1070	424	203
7/11/2016		27	34			
7/12/2016				1300	440	220
8/30/2016		23	36			
9/1/2016				1300	440	220
10/20/2016		19	36			
10/24/2016				280	420	
10/25/2016						230
12/7/2016				1300	450	220
12/8/2016		20	36			
1/24/2017		20	37			
1/26/2017				1400	490	250
3/21/2017		23	37			
3/22/2017						240
3/23/2017				1500	530	
5/23/2017		21	38			
5/24/2017				1400	500	230
10/3/2017		21	38			
10/4/2017				1400	560	220
6/5/2018		22.9	38			
6/6/2018				1520	469	233
10/2/2018		20.3	38.5			
10/3/2018				1550	600	215
4/2/2019		23.8	35.5			
4/4/2019					528	251
4/5/2019				1520		
9/24/2019		20.7	35.4	1110	382	
9/25/2019						223
3/25/2020			35.1			
3/26/2020		21.6			438	
3/30/2020				1150		223
9/15/2020		21.2	35.3			
9/16/2020	6.9					
9/17/2020					416	254
9/18/2020				1260		
11/10/2020	6.3					
12/15/2020	6.7					
1/19/2021	7.4					
3/10/2021	<1					
3/11/2021		22.7	35.5			
3/16/2021					379	
3/17/2021				1300		250
8/12/2021		17.4	28.6			
8/13/2021	56.1					
8/18/2021				768		
8/19/2021					223	228
2/1/2022	56.3					
2/7/2022		20.6	33			
2/8/2022					360	238
2/9/2022				1190		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	395					
5/24/2016		834				
7/12/2016	460	930				
9/1/2016	430	890				
10/25/2016	440	950				
12/7/2016	410					
12/8/2016		910				
1/26/2017	440	970				
3/22/2017	460					
3/23/2017		980				
5/25/2017	430	920				
10/4/2017	490	870				
6/5/2018		962				
6/6/2018	520					
10/3/2018	651	1170				
4/4/2019			915			
4/5/2019	642	1030		392	585	
9/25/2019	434	920	767			
9/26/2019					556	
9/27/2019				520		
1/22/2020						1250
3/27/2020				419		
3/31/2020	484	934				
4/1/2020			889		478	1210
6/17/2020			901			1210
9/15/2020		1080				
9/16/2020	467					
9/17/2020				468	490	
9/21/2020			1010			1290
3/17/2021				461	486	
3/18/2021	447	1050	829			1360
8/18/2021	280					740
8/19/2021		934	724	412 (M1)	432	
2/8/2022	364	960	779	449		1220
2/10/2022					430	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	1100	1160	286	
9/21/2020		1220		
9/23/2020	1080		256	
3/12/2021			237	
3/19/2021		1220		
8/16/2021	987			
8/18/2021		789	207	757
2/8/2022		1190	248	1150
2/9/2022	1050			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.001	<0.001	<0.001	<0.001		
7/11/2016	<0.001	<0.001		<0.001		
7/12/2016			<0.001			
8/30/2016	<0.001	<0.001	<0.001	<0.001		
10/19/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016	<0.001	<0.001	<0.001	<0.001		
1/24/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017	<0.001	3E-05 (J)	<0.001	<0.001		
5/22/2017	<0.001	<0.001	<0.001			
5/23/2017				<0.001		
4/2/2018	<0.001	<0.001		<0.001		
4/3/2018			<0.001			
6/4/2018	<0.001	<0.001	<0.001	<0.001		
10/1/2018	<0.001	<0.001	<0.001	<0.001		
3/11/2019				<0.001		
3/12/2019	<0.001	<0.001	<0.001			
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001		<0.001		
9/23/2019	<0.001	<0.001	<0.001			
9/24/2019				<0.001		
3/2/2020	<0.001	<0.001	<0.001	<0.001		
3/25/2020	<0.001	<0.001	<0.001			
3/26/2020				<0.001		
9/15/2020	<0.001	<0.001	<0.001	<0.001		
9/16/2020						<0.001
9/17/2020				<0.001		
11/10/2020						<0.001
11/11/2020				<0.001		
12/15/2020				<0.001		<0.001
1/19/2021						<0.001
1/20/2021					<0.001	
2/8/2021	<0.001			<0.001	<0.001	
2/9/2021		<0.001	<0.001			<0.001
3/10/2021	<0.001			<0.001	<0.001	
3/11/2021		<0.001	<0.001			<0.001
8/11/2021	<0.001					<0.001
8/12/2021		<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001			<0.001
2/7/2022				<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2022 4:29 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.001				
5/20/2016			<0.001			
5/23/2016				0.000306 (J)	<0.001	<0.001
7/11/2016		<0.001	<0.001			
7/12/2016				0.0003 (J)	<0.001	<0.001
8/30/2016		<0.001	<0.001			
9/1/2016				0.0003 (J)	<0.001	<0.001
10/20/2016		<0.001	<0.001			
10/24/2016				0.0004	<0.001	
10/25/2016						<0.001
12/7/2016				0.0003 (J)	<0.001	<0.001
12/8/2016		<0.001	<0.001			
1/24/2017		<0.001	<0.001			
1/26/2017				0.0003 (J)	<0.001	<0.001
3/21/2017		<0.001	<0.001			
3/22/2017						<0.001
3/23/2017				0.0003 (J)	<0.001	
5/23/2017		<0.001	<0.001			
5/24/2017				0.0003 (J)	<0.001	<0.001
4/3/2018		<0.001	<0.001		<0.001	<0.001
4/4/2018				0.00028 (J)		
6/5/2018		<0.001	<0.001			
6/6/2018				0.00029 (J)	<0.001	<0.001
10/2/2018		<0.001	<0.001			
10/3/2018				0.00029 (J)	<0.001	<0.001
3/12/2019		<0.001	<0.001			
3/14/2019				0.00028 (J)	<0.001	
3/15/2019						<0.001
4/2/2019		<0.001	<0.001			
4/4/2019					<0.001	<0.001
4/5/2019				0.00028 (J)		
9/24/2019		<0.001	<0.001	0.0003 (J)	<0.001	
9/25/2019						<0.001
3/2/2020		<0.001	<0.001			
3/3/2020				0.00026 (J)	<0.001	<0.001
3/25/2020			5.7E-05 (J)			
3/26/2020		<0.001			<0.001	
3/30/2020				0.00028 (J)		<0.001
9/15/2020		<0.001	<0.001			
9/16/2020	<0.001					
9/17/2020					<0.001	<0.001
9/18/2020				0.00028 (J)		
11/10/2020	<0.001					
12/15/2020	<0.001					
1/19/2021	<0.001					
2/9/2021	<0.001	<0.001	<0.001			
2/10/2021						<0.001
2/11/2021				0.00026 (J)		
2/12/2021					<0.001	
3/10/2021	<0.001					
3/11/2021		<0.001	<0.001			
3/16/2021					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.00034 (J)		<0.001
8/12/2021		<0.001	<0.001			
8/13/2021	<0.001					
8/18/2021				0.00027 (J)		
8/19/2021					<0.001	<0.001
2/1/2022	<0.001					
2/7/2022		<0.001	<0.001			
2/8/2022					<0.001	<0.001
2/9/2022				0.00025 (J)		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2022 4:29 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.001					
5/24/2016		<0.001				
7/12/2016	0.0001 (J)	0.0002 (J)				
9/1/2016	<0.001	<0.001				
10/25/2016	<0.001	<0.001				
12/7/2016	<0.001					
12/8/2016		<0.001				
1/26/2017	<0.001	<0.001				
3/22/2017	0.0001 (J)					
3/23/2017		0.0002 (J)				
5/25/2017	0.0001 (J)	0.0002 (J)				
4/3/2018	<0.001	0.00014 (J)				
6/5/2018		0.00016 (J)				
6/6/2018	<0.001					
10/3/2018	<0.001	<0.001				
3/14/2019		<0.001			<0.001	
3/15/2019	<0.001		<0.001	<0.001		
4/4/2019			<0.001			
4/5/2019	0.00013 (J)	0.00014 (J)		<0.001	<0.001	
9/25/2019	0.00012 (J)	0.00019 (J)	<0.001			
9/26/2019					<0.001	
9/27/2019				<0.001		
3/2/2020				<0.001	<0.001	
3/3/2020	0.00011 (J)	0.00013 (J)	<0.001			
3/27/2020				<0.001		
3/31/2020	0.00014 (J)	0.00015 (J)				
4/1/2020			<0.001		<0.001	0.00029 (J)
6/17/2020			<0.001			0.00028 (J)
9/15/2020		0.00016 (J)				
9/16/2020	<0.001					
9/17/2020				<0.001	<0.001	
9/21/2020			<0.001			0.00029 (J)
2/11/2021	<0.001	<0.001	<0.001			
2/12/2021					<0.001	0.00025 (J)
2/15/2021				<0.001		
3/17/2021				<0.001	<0.001	
3/18/2021	<0.001	0.00016 (J)	<0.001			0.00031 (J)
8/18/2021	<0.001					0.0004 (J)
8/19/2021		0.0002 (J)	<0.001	<0.001	<0.001	
2/8/2022	<0.001	<0.001	<0.001	<0.001		0.00025 (J)
2/10/2022					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00015 (J)	0.00013 (J)	<0.001	
9/21/2020		<0.001		
9/23/2020	<0.001		<0.001	
2/11/2021			<0.001	
2/15/2021		<0.001		
3/12/2021			<0.001	
3/19/2021		<0.001		
8/16/2021	<0.001			
8/18/2021		<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001
2/9/2022	<0.001			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	421	143	267	165		
7/11/2016	363	125		266		
7/12/2016			249			
8/30/2016	330	168	254	292		
10/19/2016	380	176	357	338		
12/6/2016	377	145	285	356		
1/24/2017	342	129	300	131		
3/21/2017	340	103	288	132		
5/22/2017	338	92	263			
5/23/2017				183		
10/3/2017	343	127	300	161		
6/4/2018	415	140	266	240		
10/1/2018	354	135	291	106		
4/1/2019			284			
4/2/2019	452	133		230		
9/23/2019	442	129	268			
9/24/2019				131		
3/25/2020	496	138	284			
3/26/2020				69		
9/15/2020	265	124	258	93		
9/16/2020						272
9/17/2020				188		
11/10/2020						307
11/11/2020				175		
12/15/2020				193		289
1/19/2021						270
1/20/2021					158	
3/10/2021	348			53	163	
3/11/2021		169	267			279
8/11/2021	366					277
8/12/2021		118	265	55	179	
2/1/2022	270	156	350			156
2/7/2022				54	190	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		168				
5/20/2016			223			
5/23/2016				4130	1270	570
7/11/2016		158	225			
7/12/2016				3140	1100	585
8/30/2016		141	232			
9/1/2016				3200	1180	625
10/20/2016		99	225			
10/24/2016				2920	1090	
10/25/2016						563
12/7/2016				2740	1040	561
12/8/2016		116	235			
1/24/2017		156	272			
1/26/2017				3080	1260	608
3/21/2017		144	222			
3/22/2017						599
3/23/2017				3060	1360	
5/23/2017		134	231			
5/24/2017				3140	1320	598
10/3/2017		147	243			
10/4/2017				3210	1340	626
6/5/2018		152	235			
6/6/2018				2620	1120	678
10/2/2018		146	228			
10/3/2018				2430	1140	700
4/2/2019		144	238			
4/4/2019					926	704
4/5/2019				2310		
9/24/2019		133	222	2470	1140	
9/25/2019						813
3/25/2020			240			
3/26/2020		104			1000	
3/30/2020				2590		787
9/15/2020		116	217			
9/16/2020	270					
9/17/2020					956	804
9/18/2020				2440		
11/10/2020	287					
12/15/2020	295					
1/19/2021	278					
3/10/2021	289					
3/11/2021		118	215			
3/16/2021					92	
3/17/2021				1640		768
8/12/2021		158	229			
8/13/2021	436					
8/18/2021				2350		
8/19/2021					958	816
2/1/2022	444					
2/7/2022		135	224			
2/8/2022					866	852
2/9/2022				2310		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	1010					
5/24/2016		1900				
7/12/2016	976	1950				
9/1/2016	1060	2000				
10/25/2016	<25	1870				
12/7/2016	866					
12/8/2016		1930				
1/26/2017	1000	1950				
3/22/2017	1080					
3/23/2017		2080				
5/25/2017	1080	1970				
10/4/2017	1210	2200				
6/5/2018		1880				
6/6/2018	1180					
10/3/2018	1250	2180				
4/4/2019			1800			
4/5/2019	1260	1610		890	1400	
9/25/2019	1280	1960	1970			
9/26/2019					1400	
9/27/2019				1110		
1/22/2020						2310
3/27/2020				1100		
3/31/2020	1310	1860				
4/1/2020			1940		1530	2590
6/17/2020			2100			2540
9/15/2020		1890				
9/16/2020	1220					
9/17/2020				1090	1360	
9/21/2020			2060			2340
3/17/2021				998	990	
3/18/2021	1020	1390	1390			1790
8/18/2021	1290					3690
8/19/2021		1750	1920	1030	1440	
2/8/2022	1160	1770	1810	1070		2480
2/10/2022					1260	

Time Series

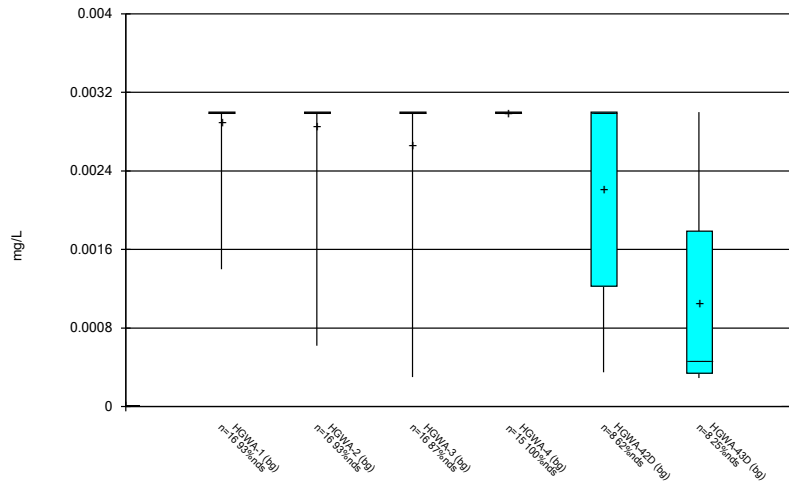
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2022 4:29 PM

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	2320	2310	888	
9/21/2020		2210		
9/23/2020	2430		894	
3/12/2021			890	
3/19/2021		1690		
8/16/2021	2340			
8/18/2021		2390	950	2610
2/8/2022		2410	882	2430
2/9/2022	2260			

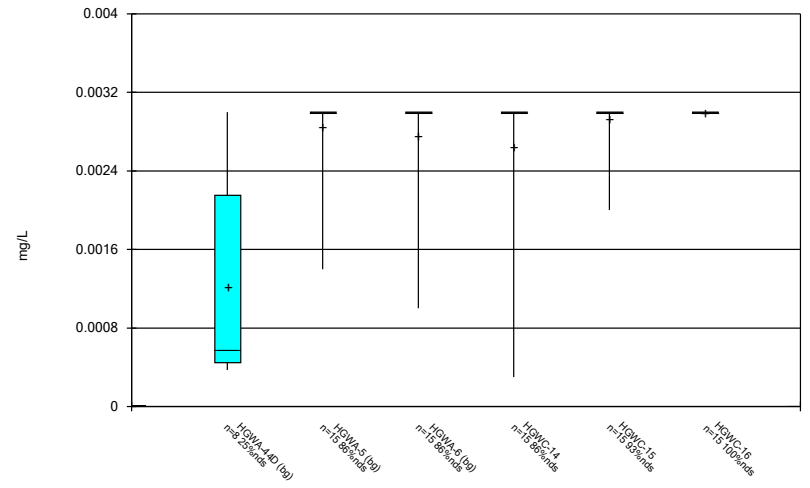
FIGURE B.

Box & Whiskers Plot



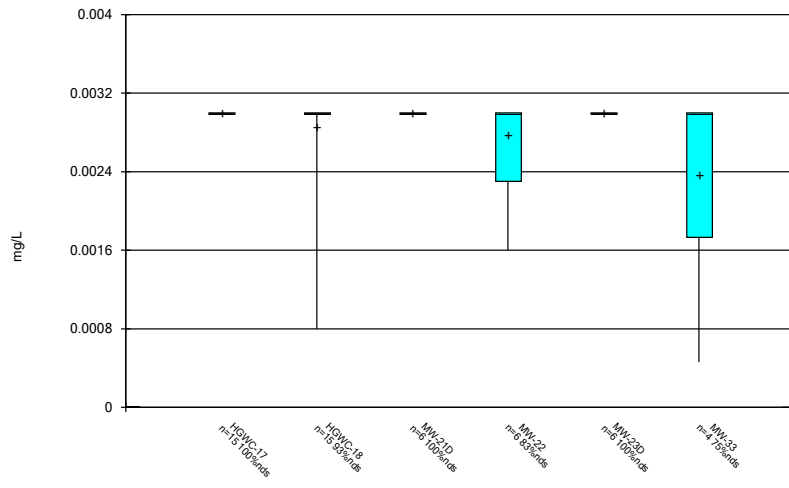
Constituent: Antimony Analysis Run 4/26/2022 4:30 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



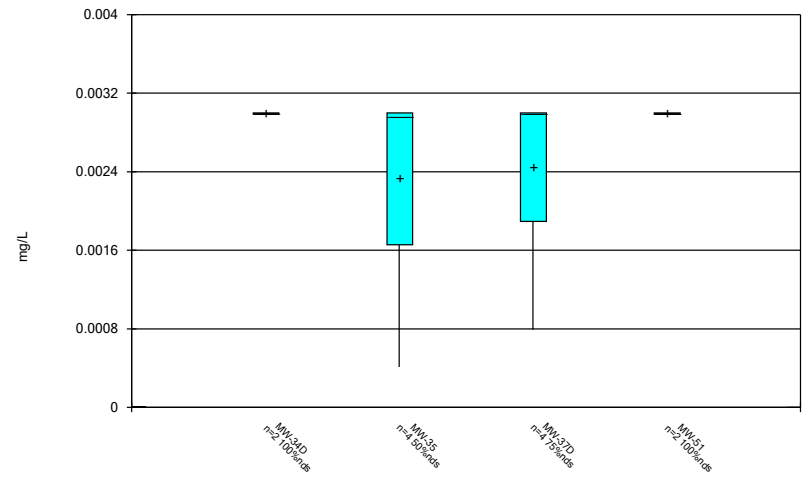
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



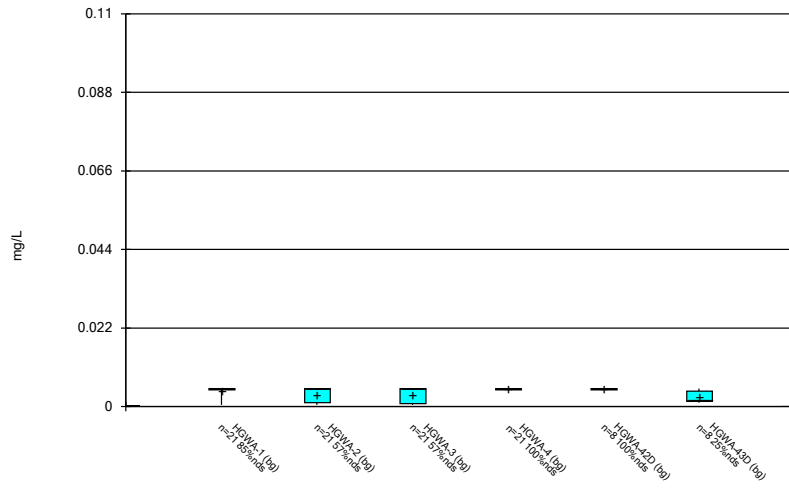
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



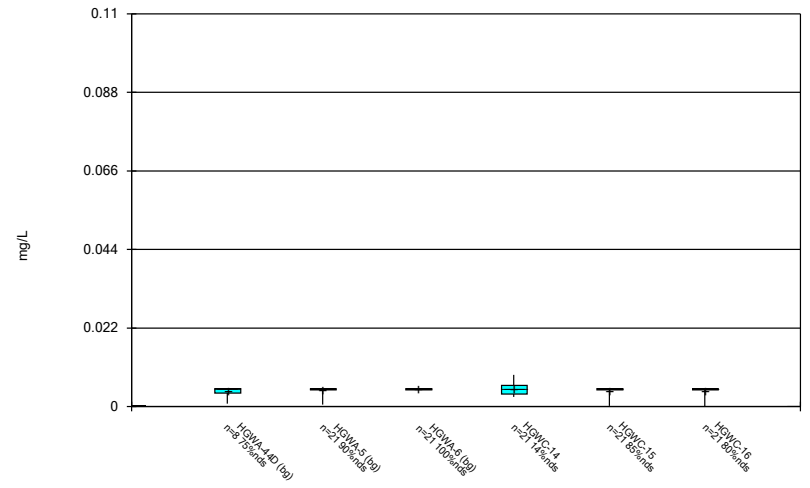
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Box & Whiskers Plot



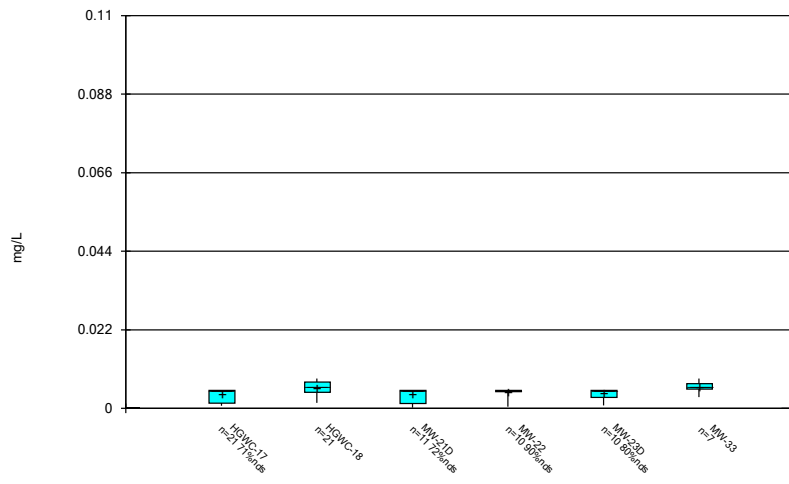
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Box & Whiskers Plot



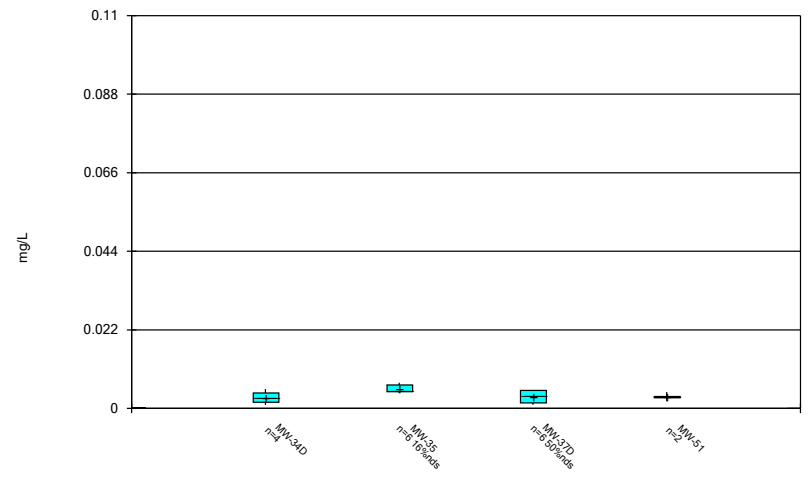
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Box & Whiskers Plot



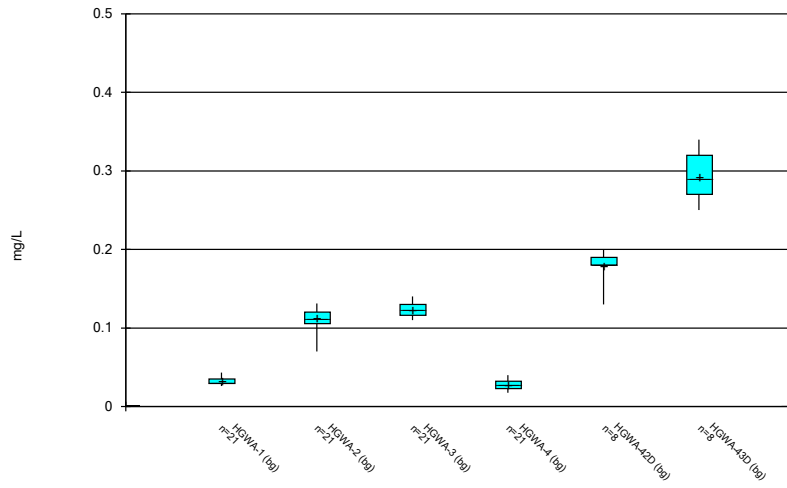
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Box & Whiskers Plot



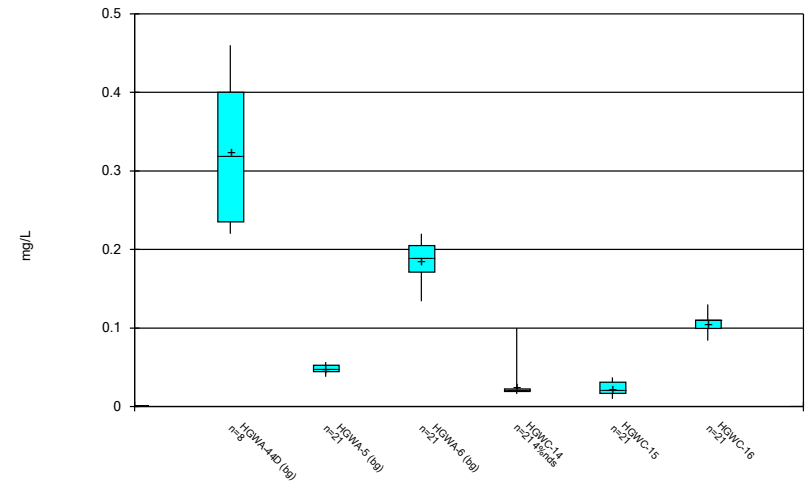
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Box & Whiskers Plot



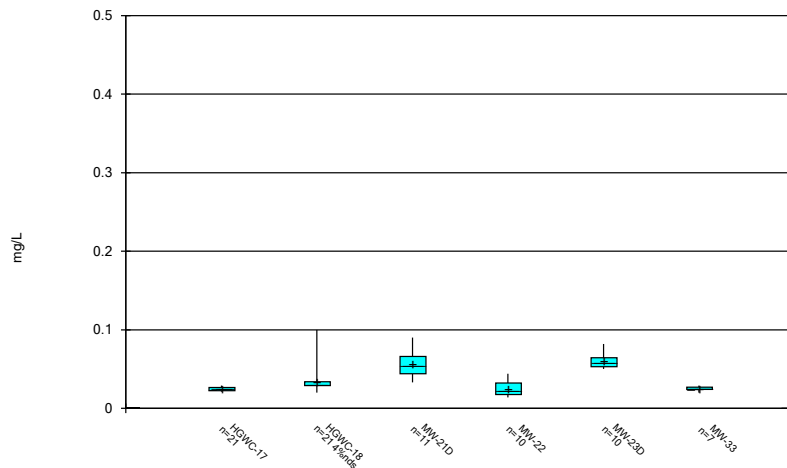
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Box & Whiskers Plot



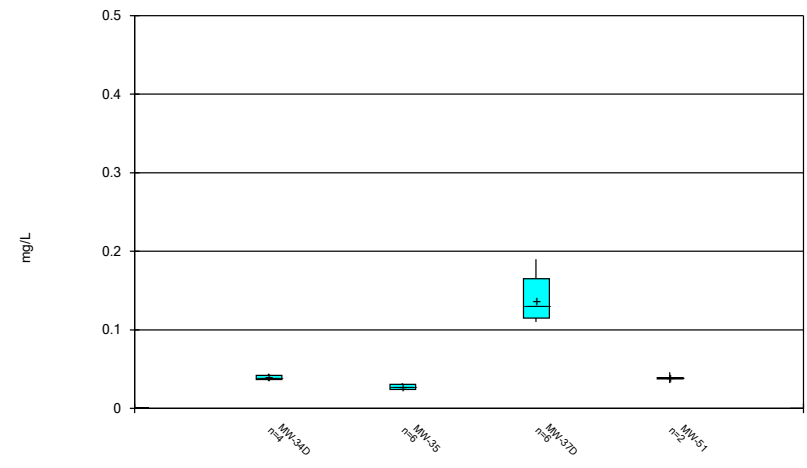
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Box & Whiskers Plot



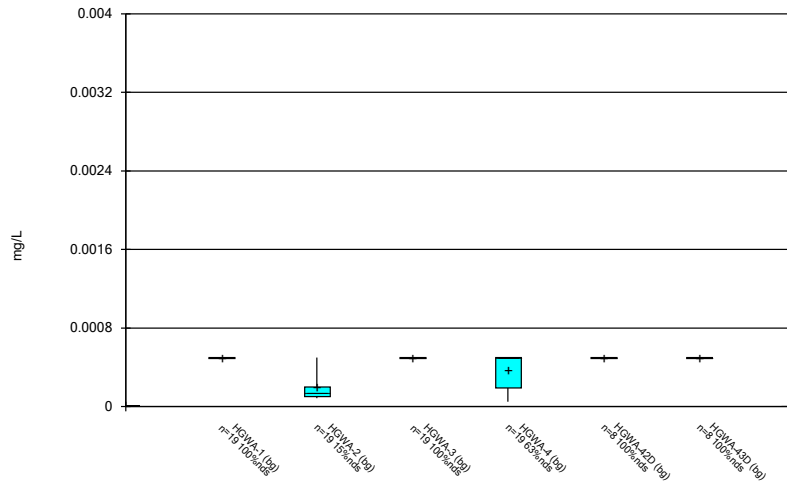
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



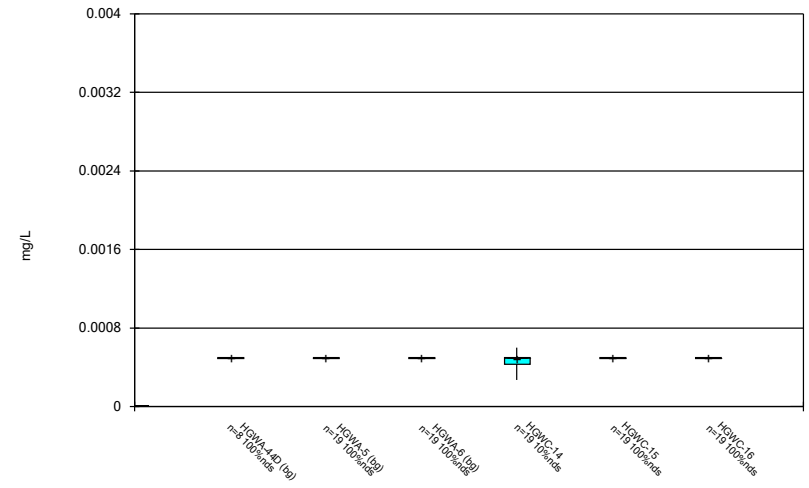
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



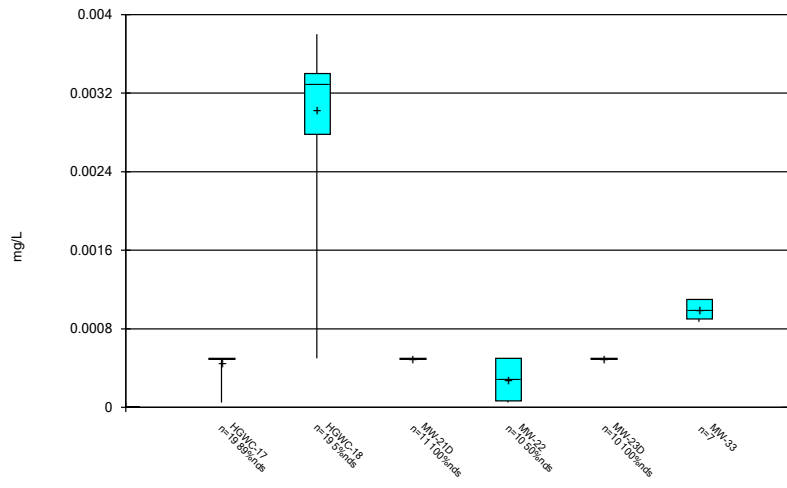
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Box & Whiskers Plot



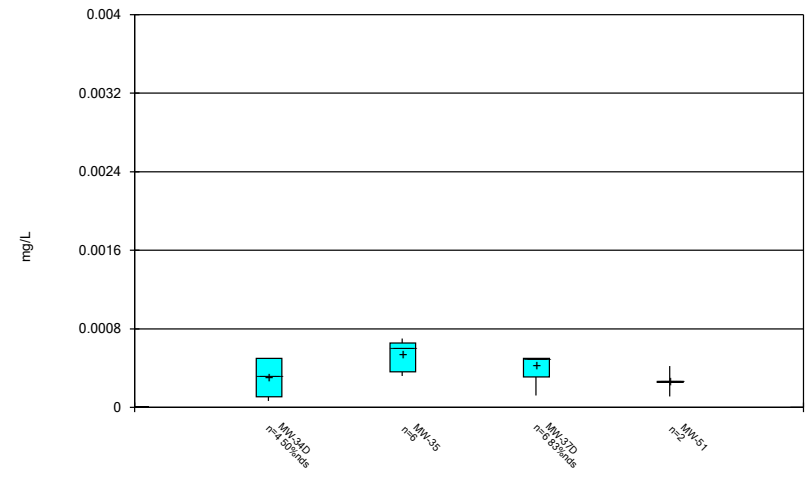
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Box & Whiskers Plot



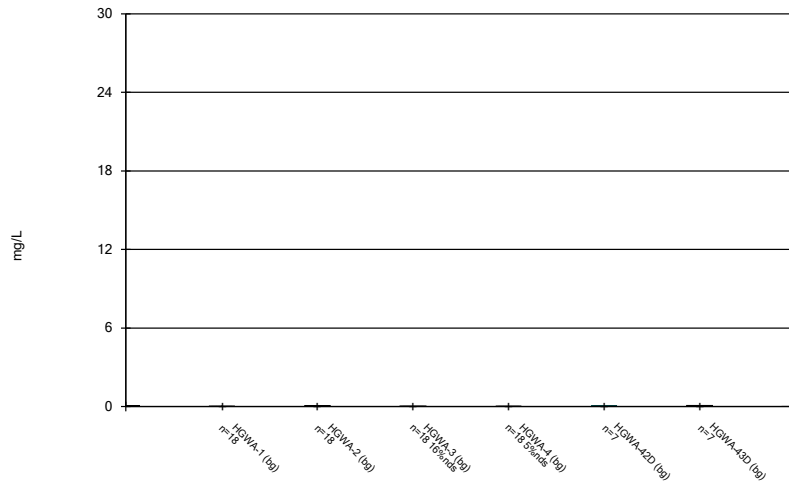
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Box & Whiskers Plot



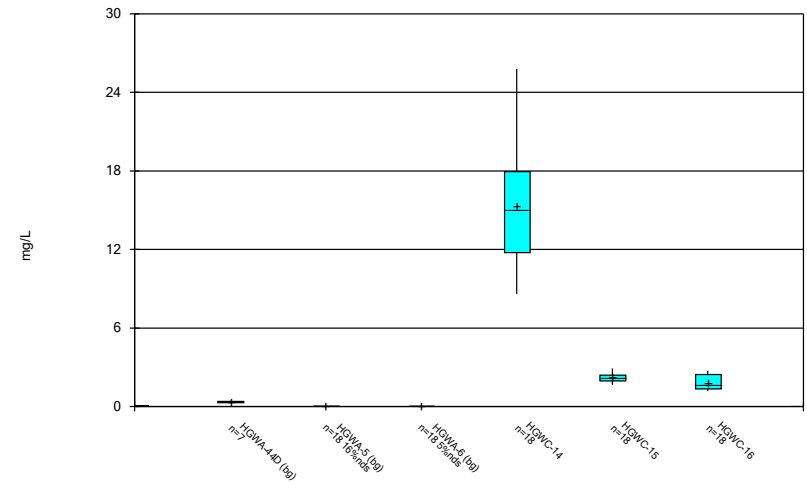
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Box & Whiskers Plot



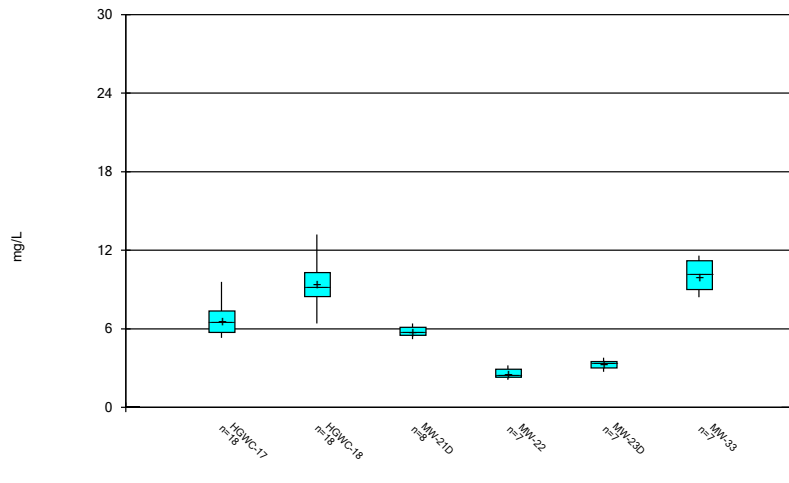
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Box & Whiskers Plot



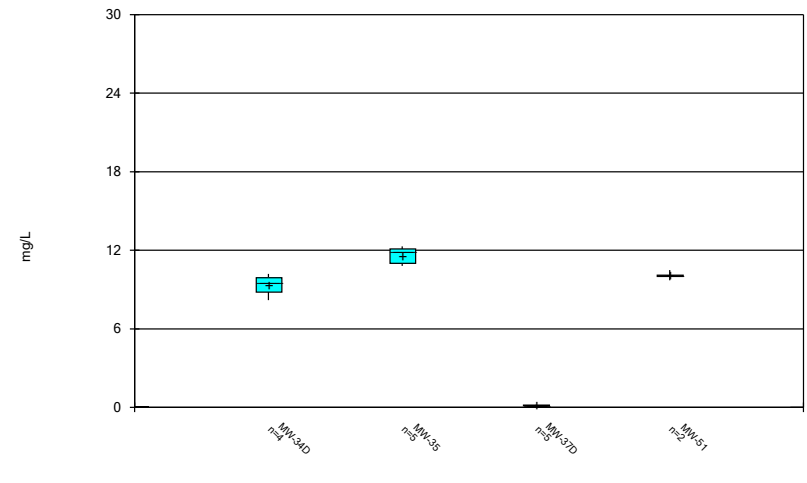
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Box & Whiskers Plot



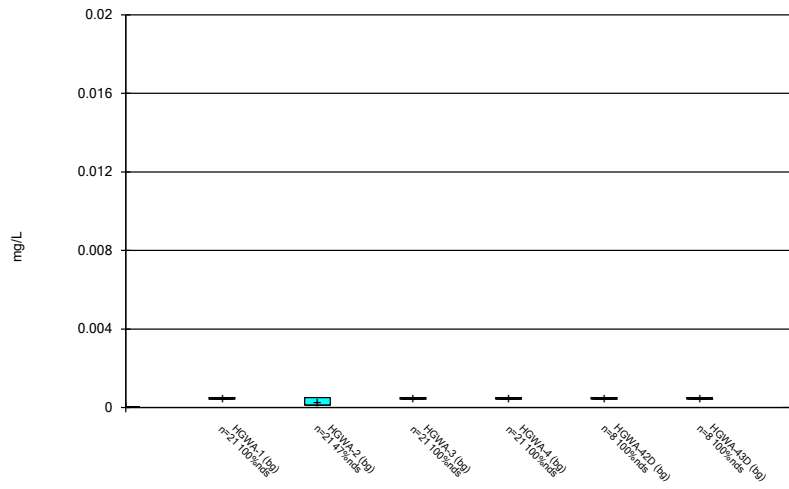
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Box & Whiskers Plot



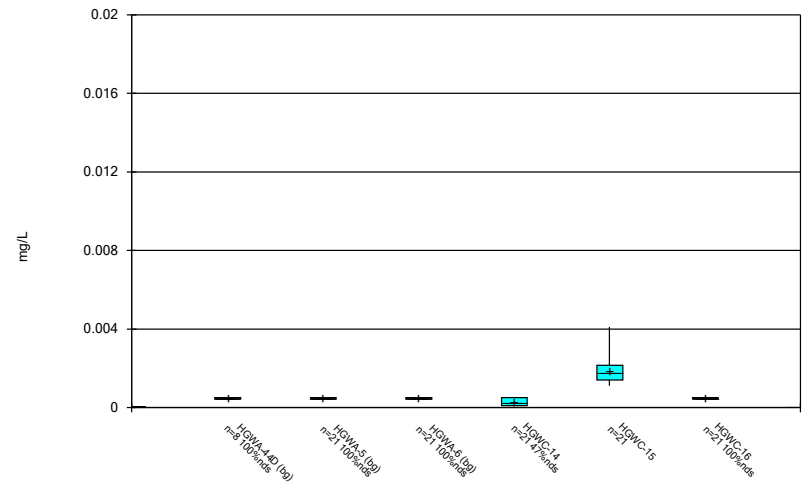
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Box & Whiskers Plot



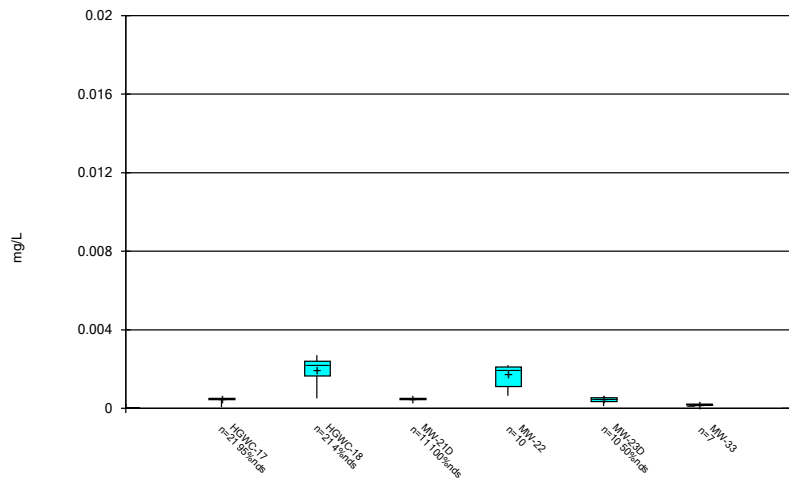
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



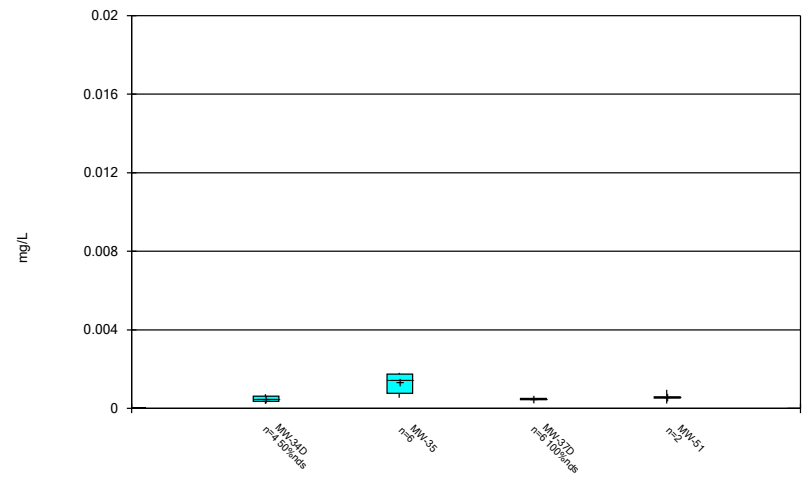
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Box & Whiskers Plot



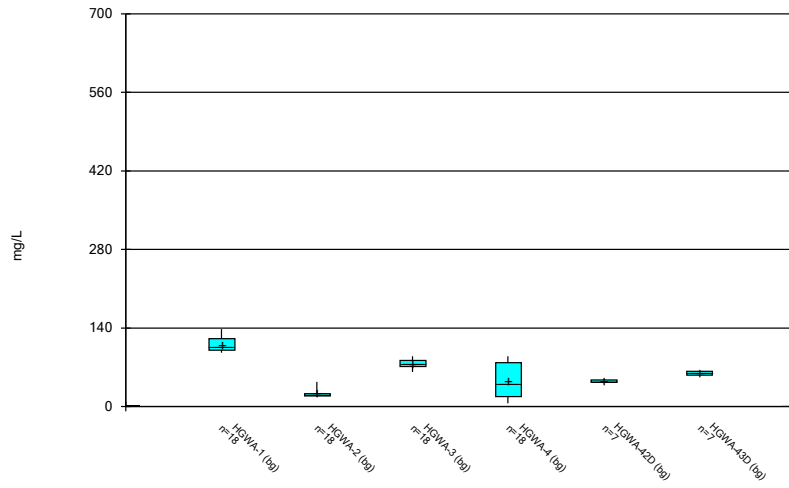
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Box & Whiskers Plot



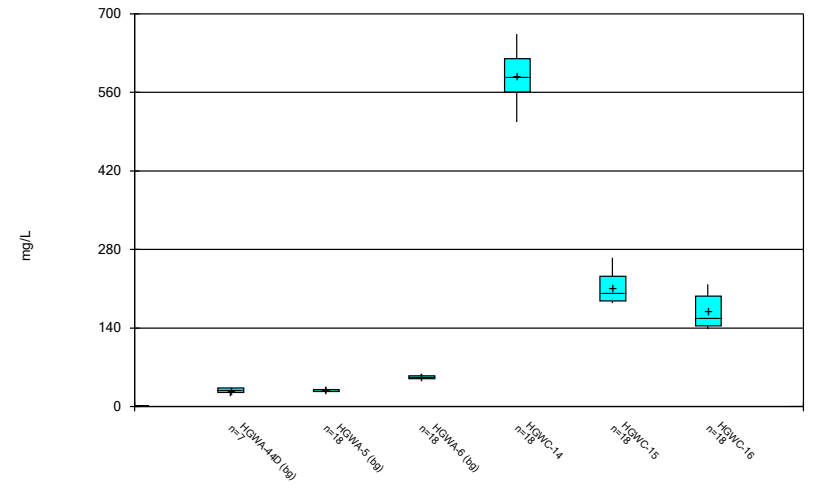
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Box & Whiskers Plot



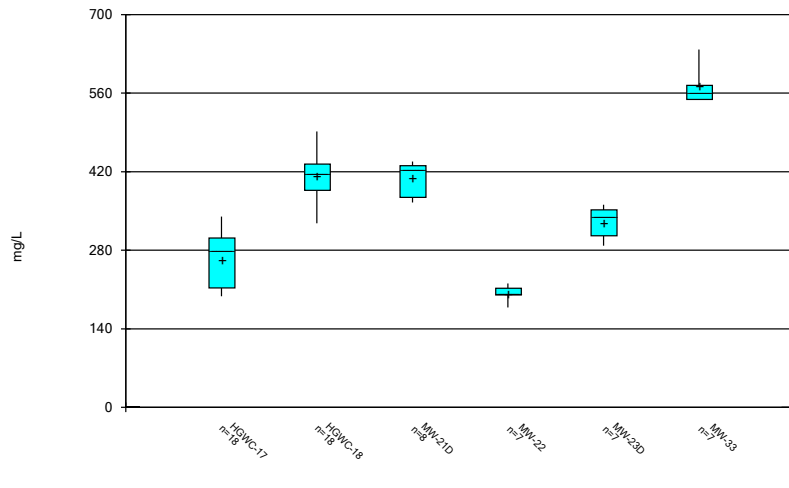
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



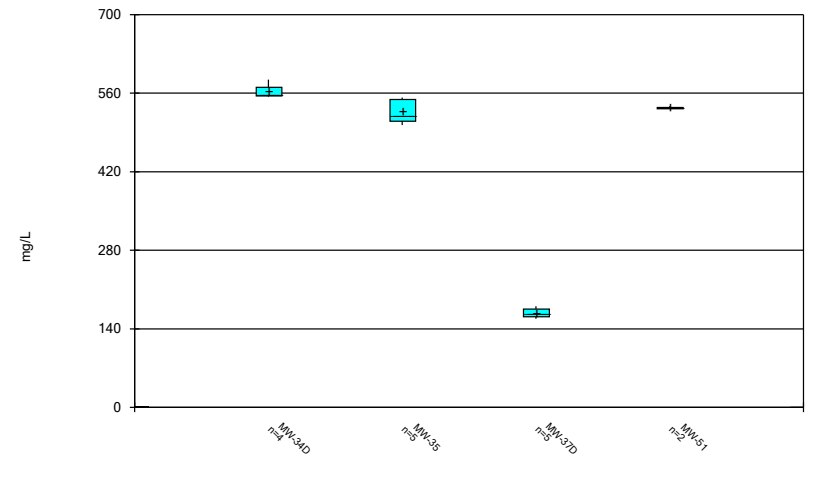
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



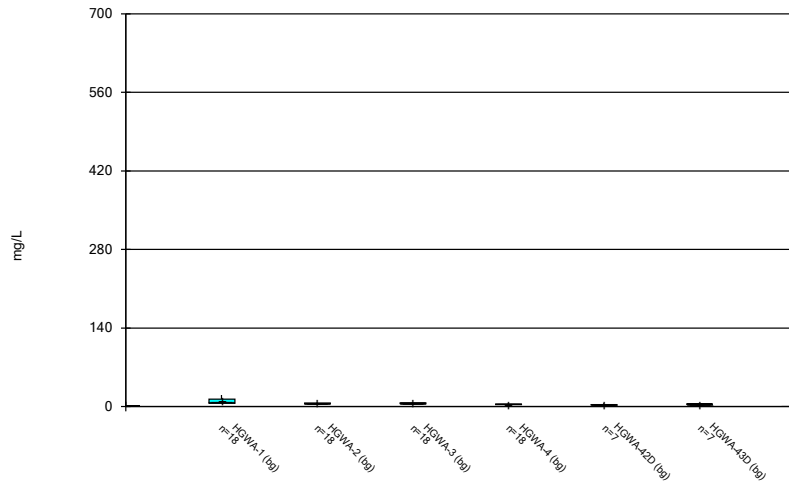
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Box & Whiskers Plot



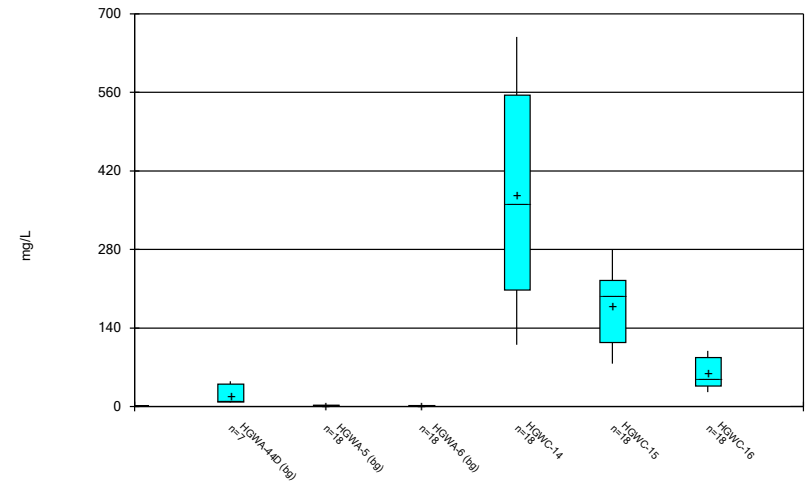
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Box & Whiskers Plot



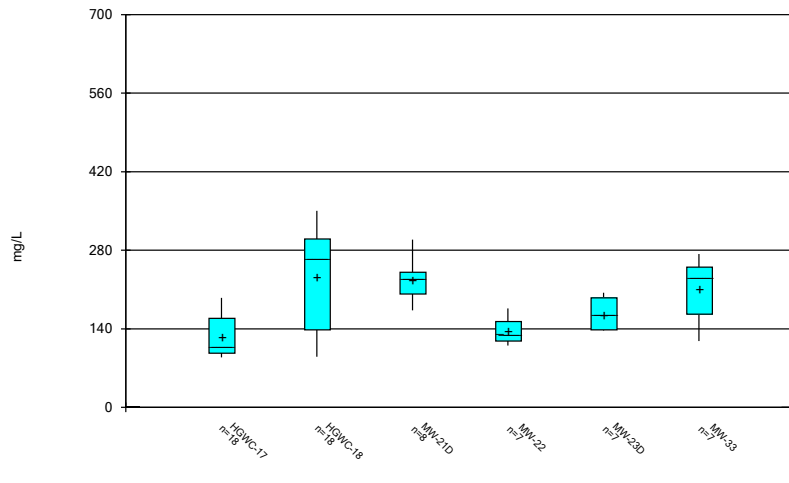
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



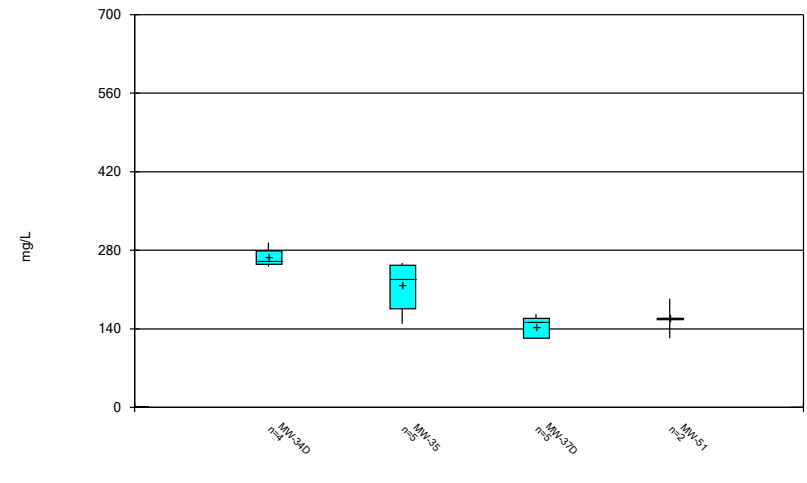
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Box & Whiskers Plot



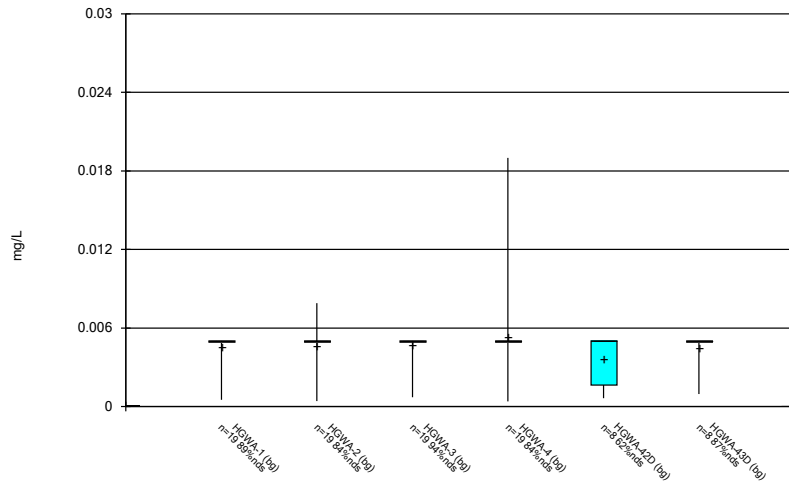
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Box & Whiskers Plot



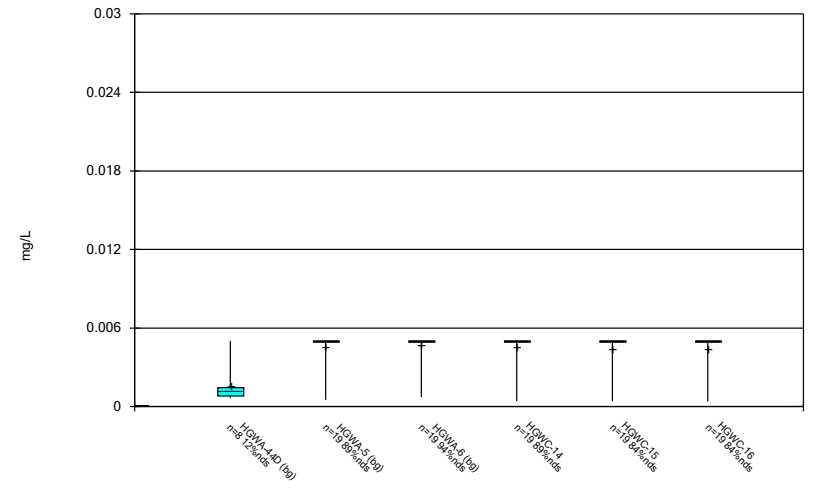
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Box & Whiskers Plot



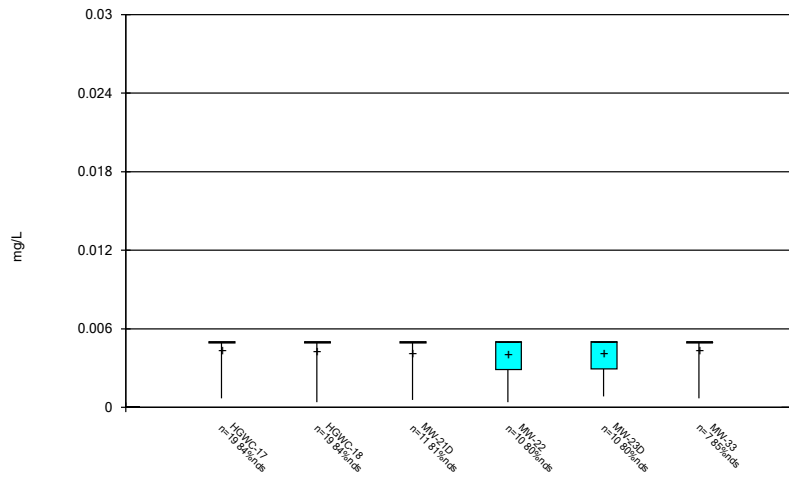
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Box & Whiskers Plot



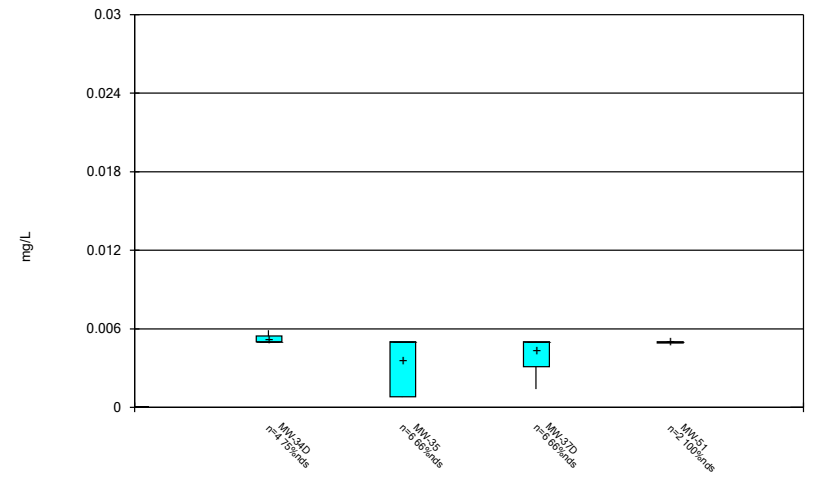
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Box & Whiskers Plot



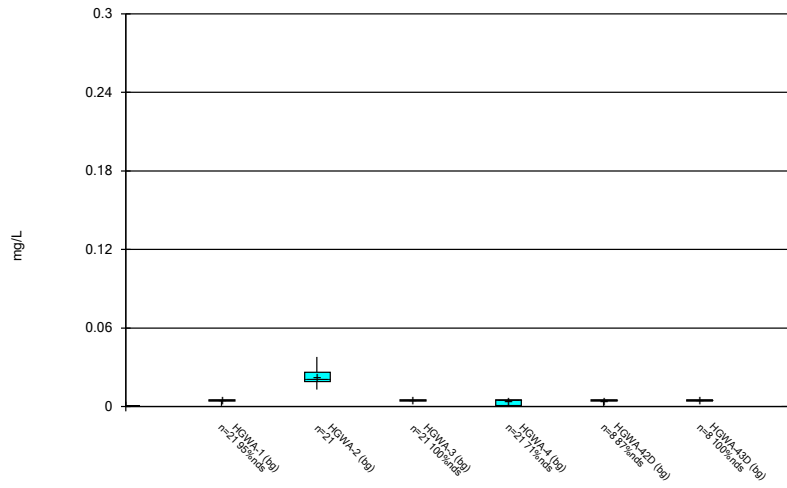
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Box & Whiskers Plot



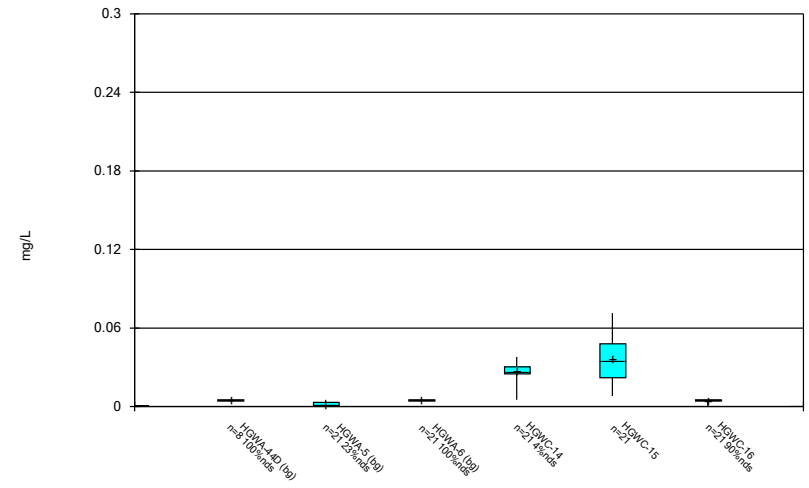
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Box & Whiskers Plot



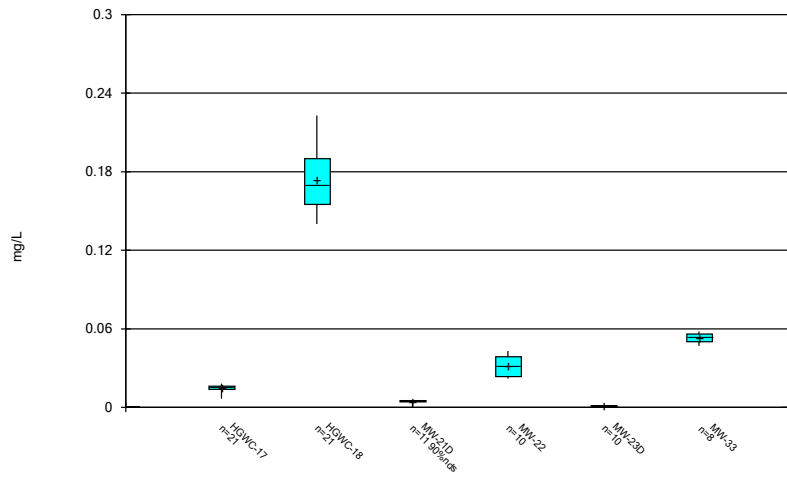
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Box & Whiskers Plot



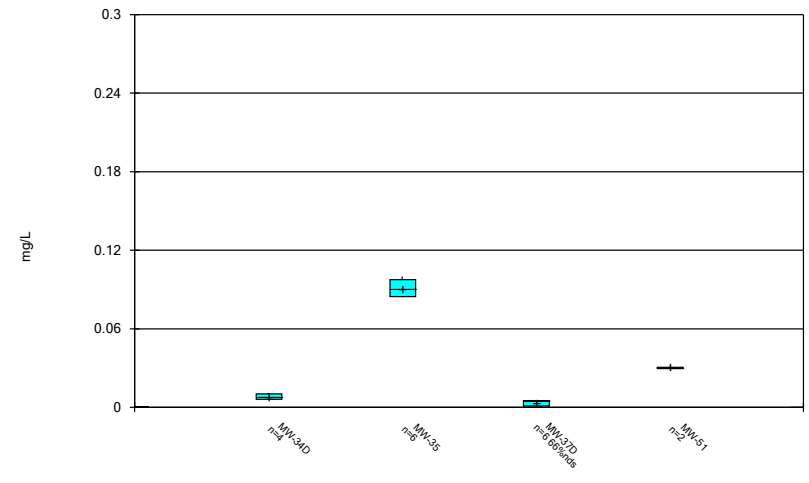
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Box & Whiskers Plot



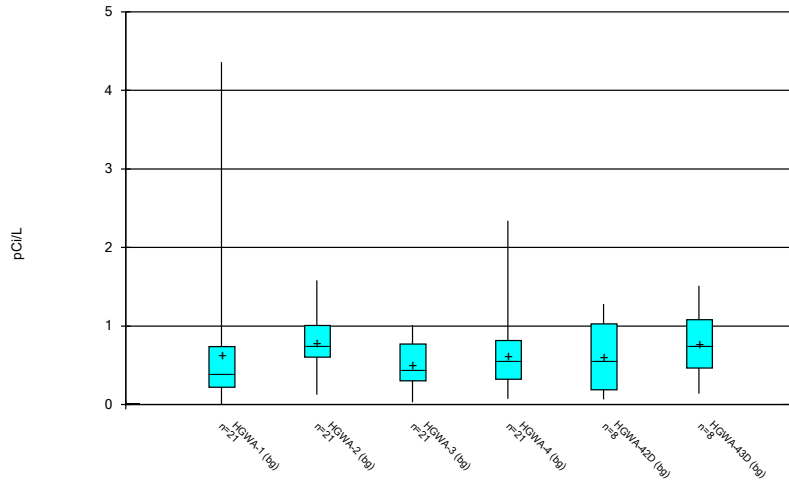
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Box & Whiskers Plot



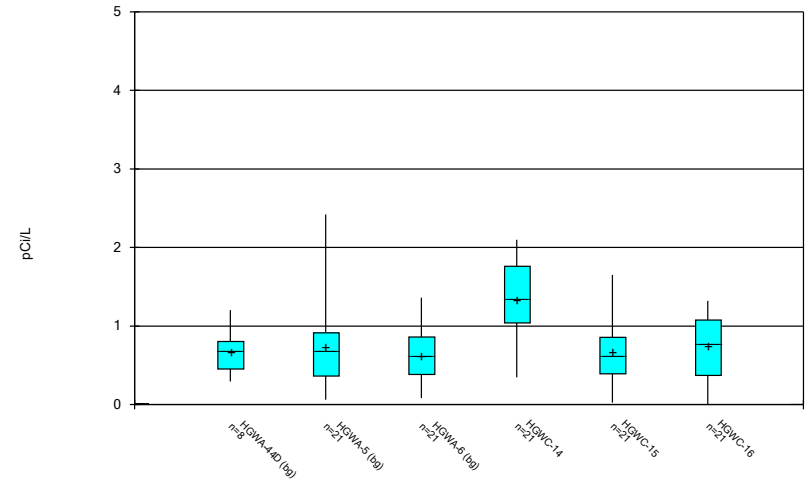
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Box & Whiskers Plot



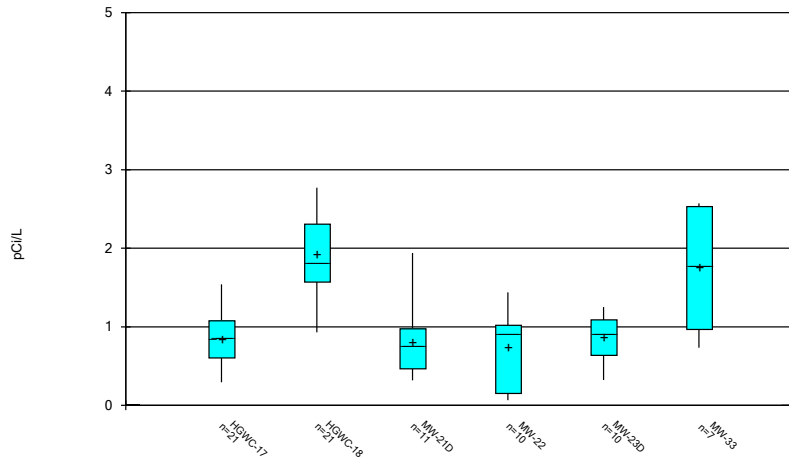
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



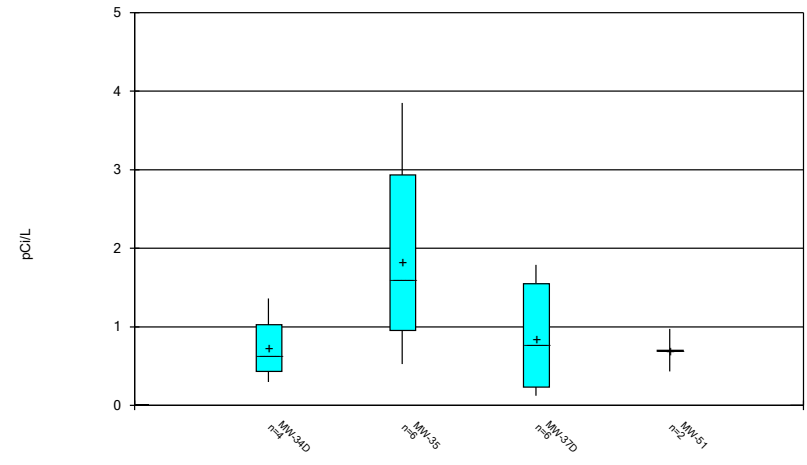
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



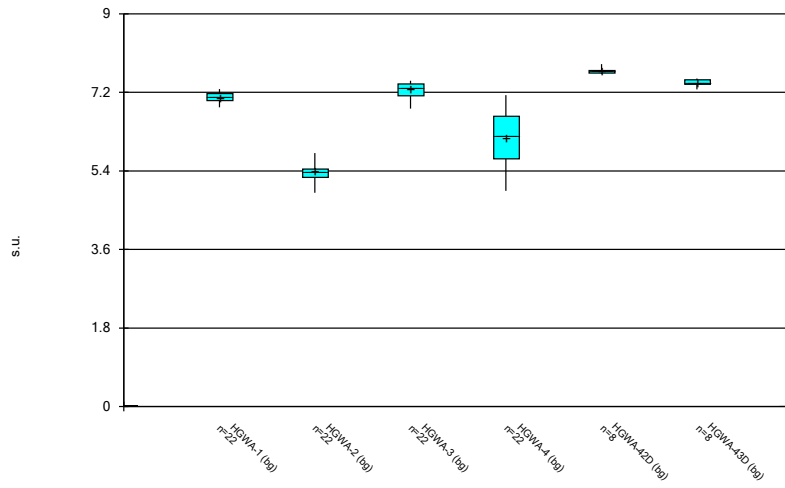
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Box & Whiskers Plot



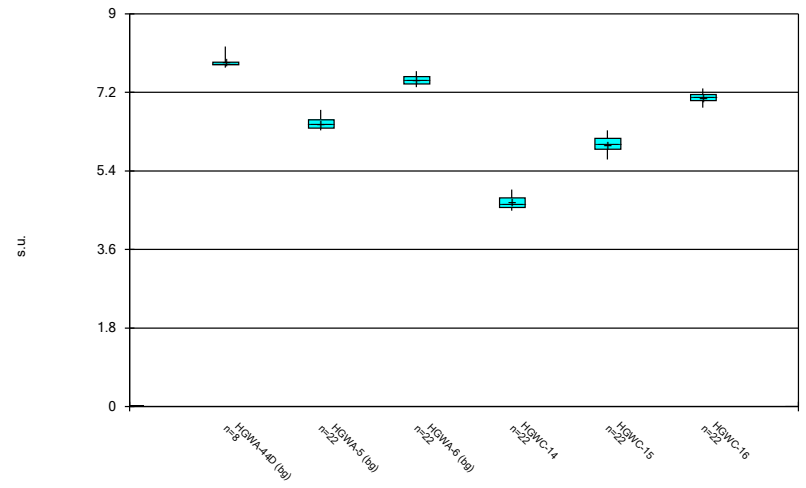
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Box & Whiskers Plot



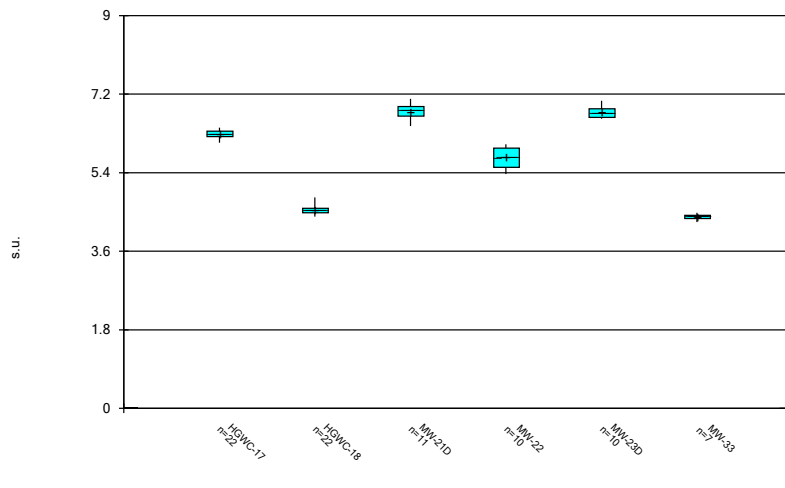
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



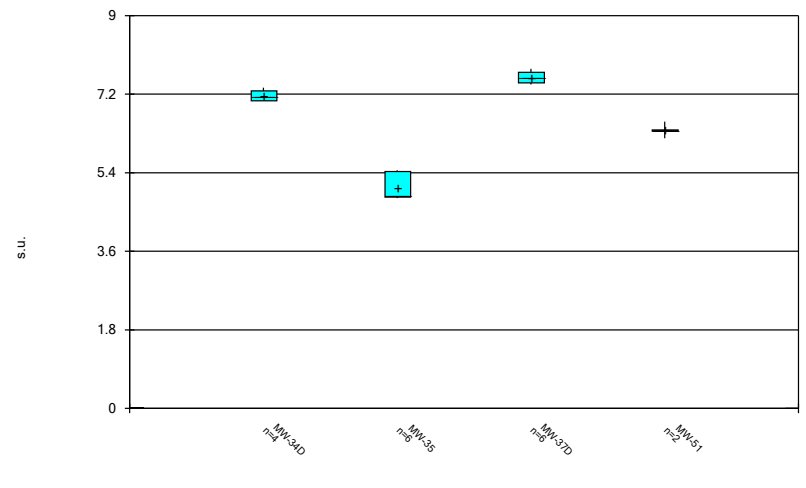
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



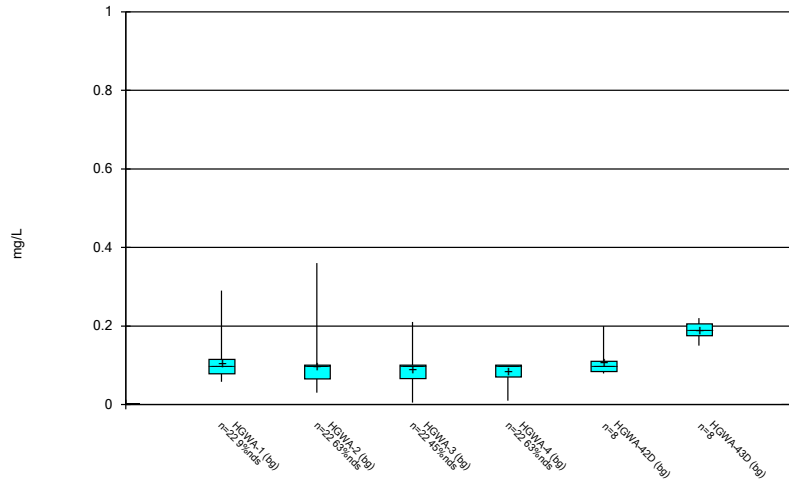
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Box & Whiskers Plot



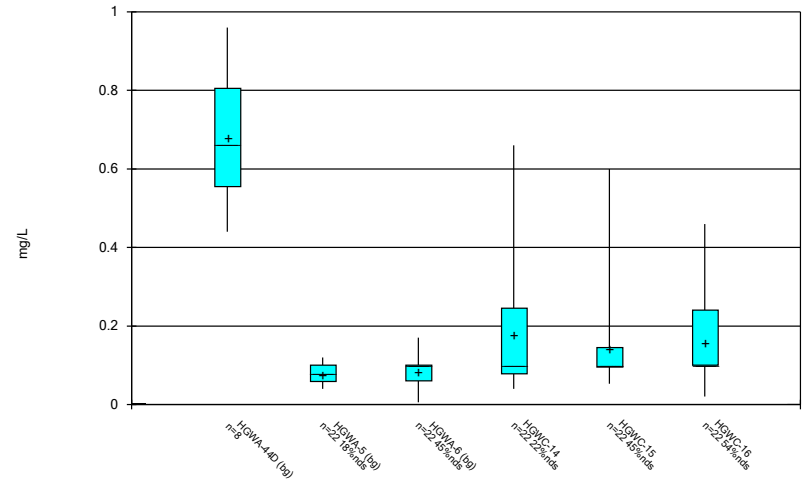
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Box & Whiskers Plot



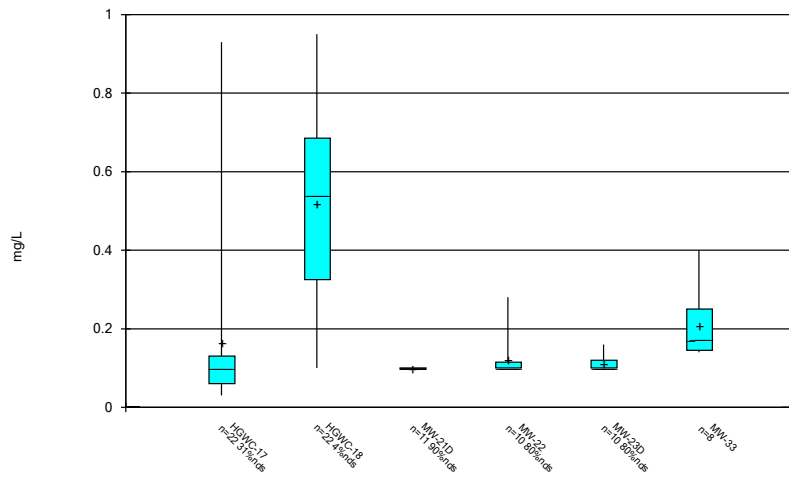
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Box & Whiskers Plot



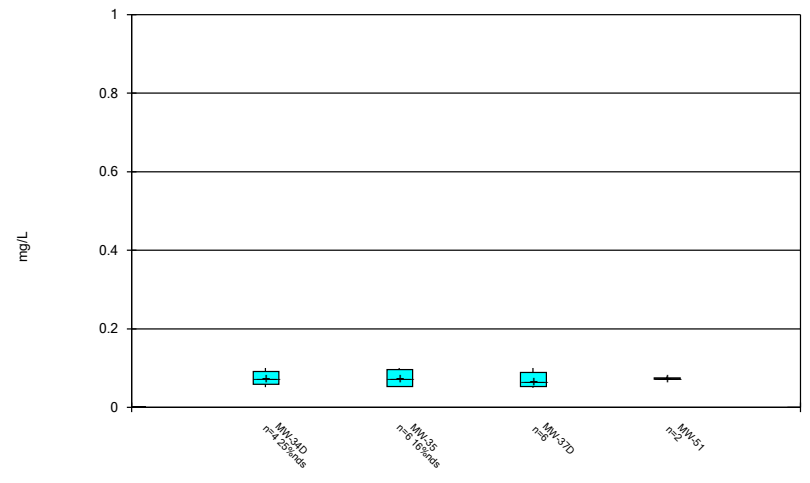
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Box & Whiskers Plot



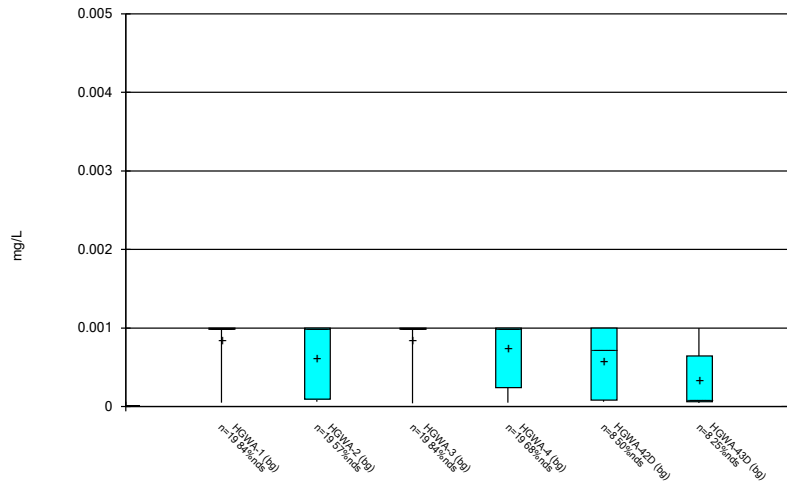
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Box & Whiskers Plot



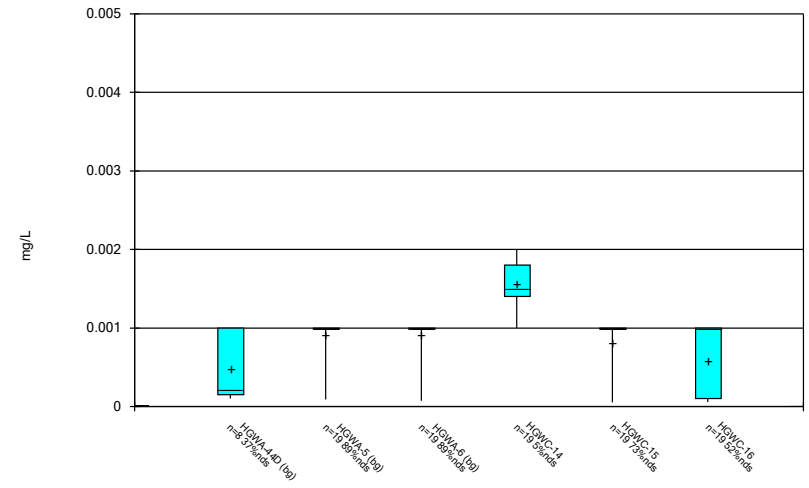
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Box & Whiskers Plot



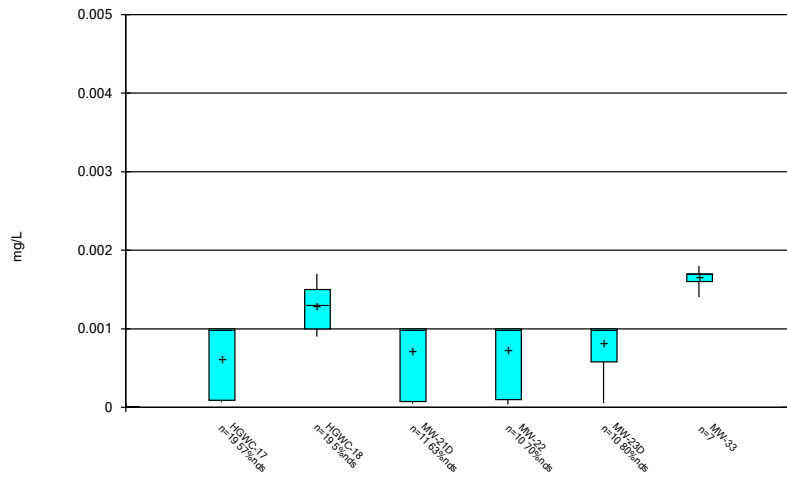
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Box & Whiskers Plot



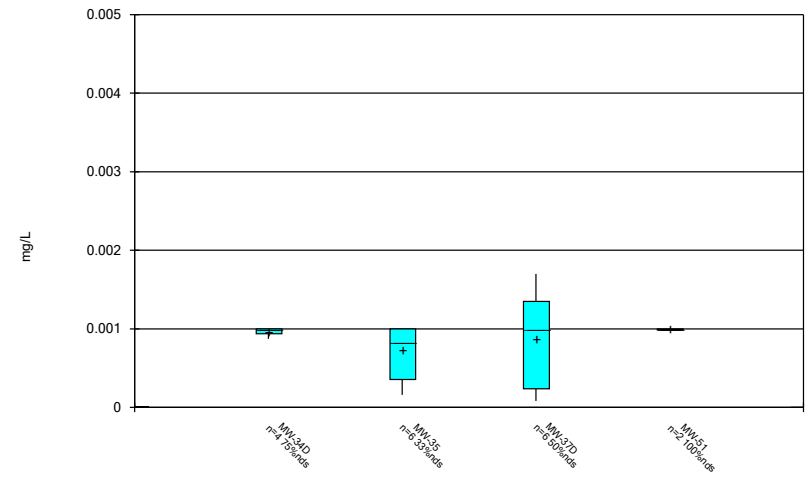
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Box & Whiskers Plot



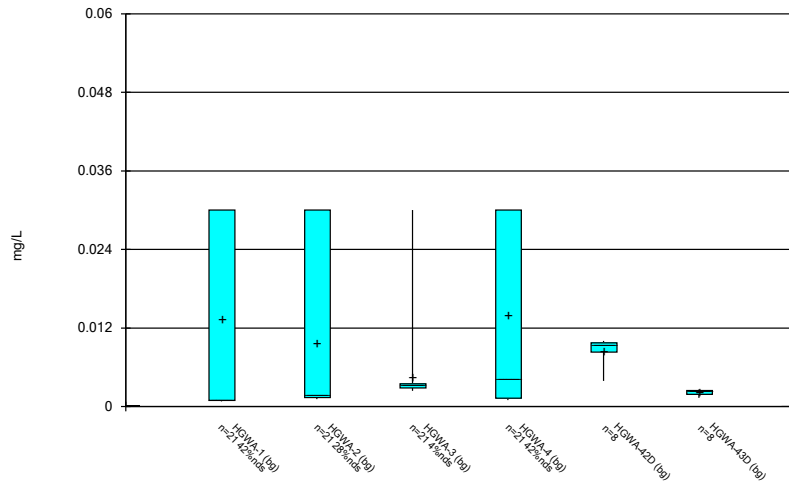
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Box & Whiskers Plot



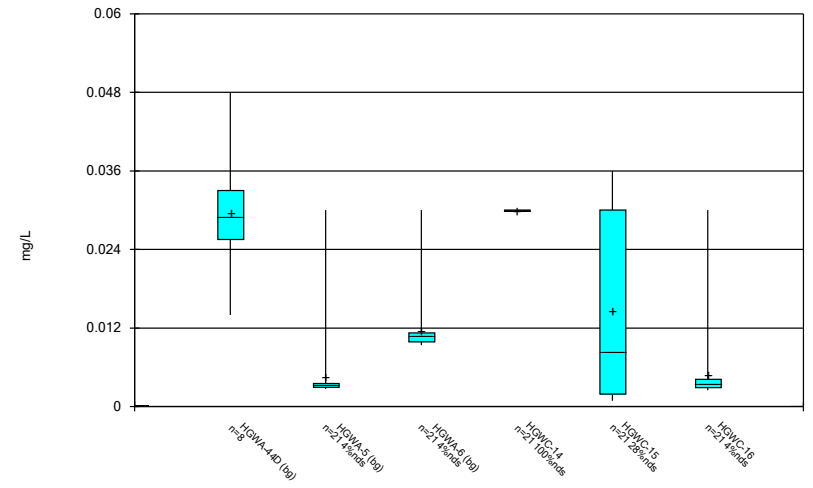
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Box & Whiskers Plot



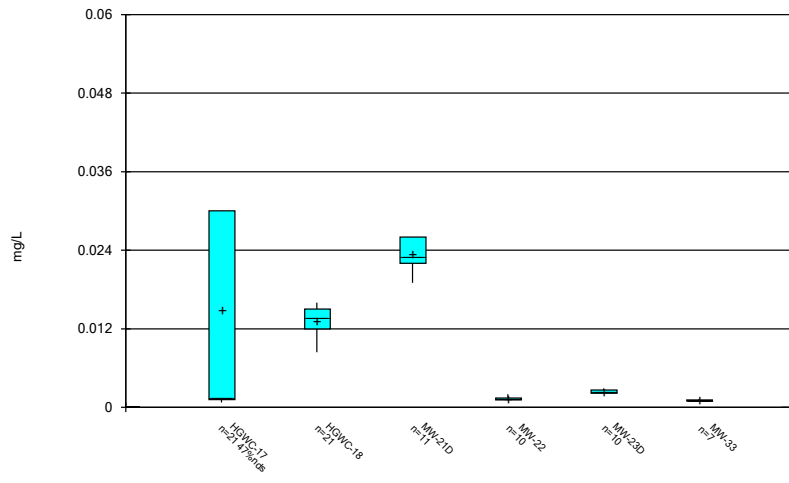
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Box & Whiskers Plot



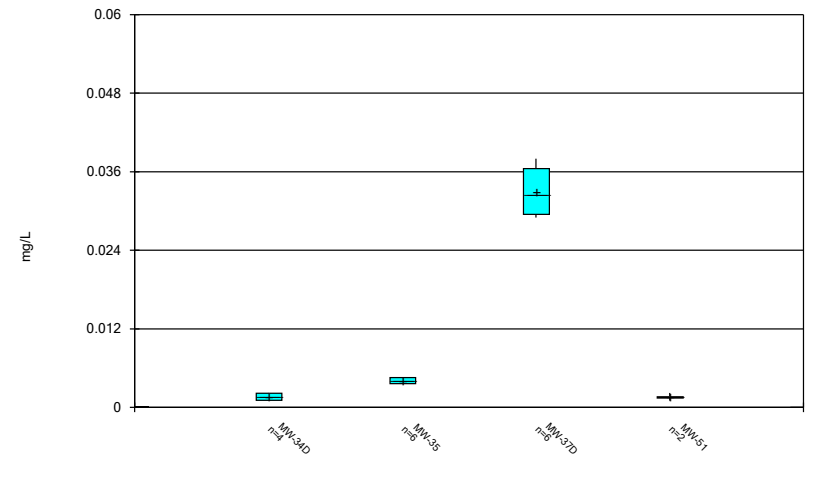
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Box & Whiskers Plot



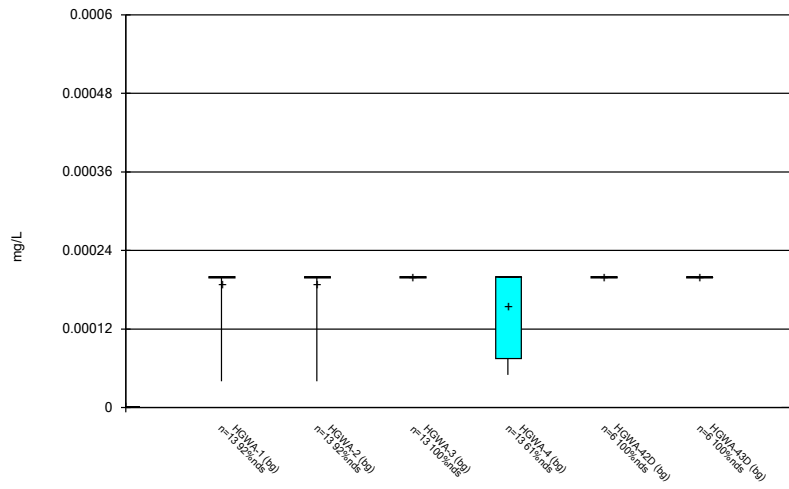
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Box & Whiskers Plot



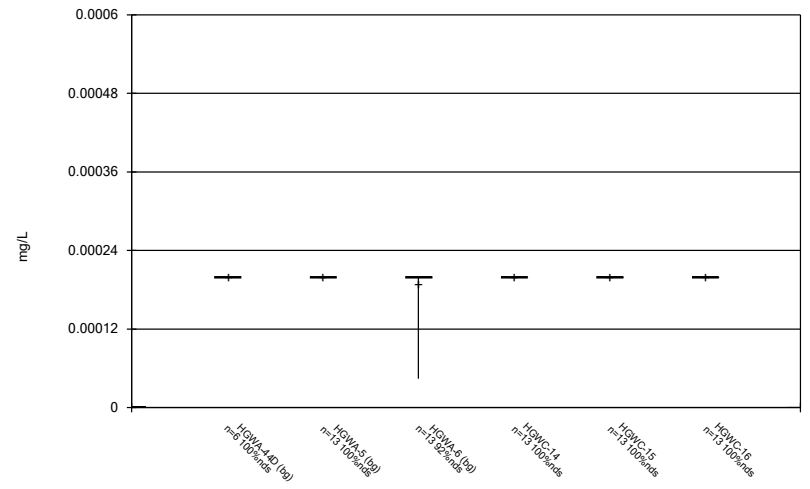
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Box & Whiskers Plot



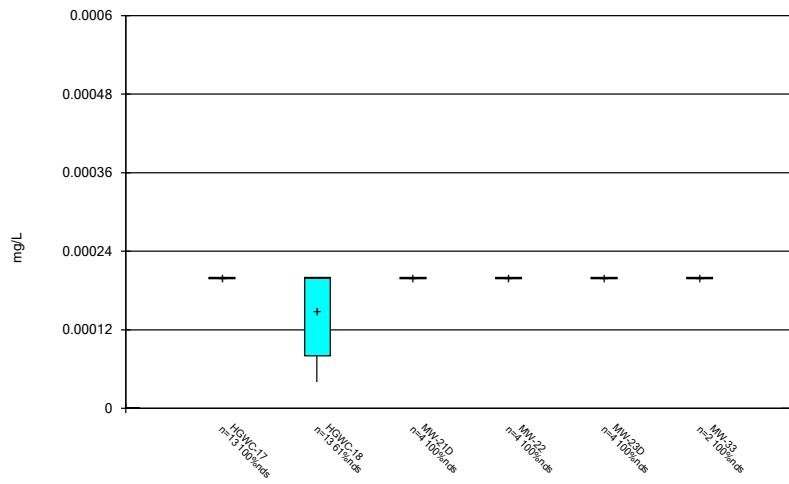
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Box & Whiskers Plot



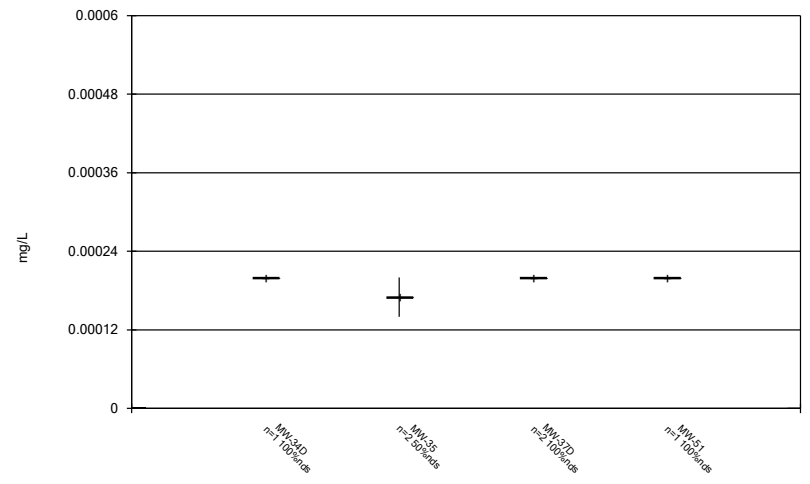
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Box & Whiskers Plot



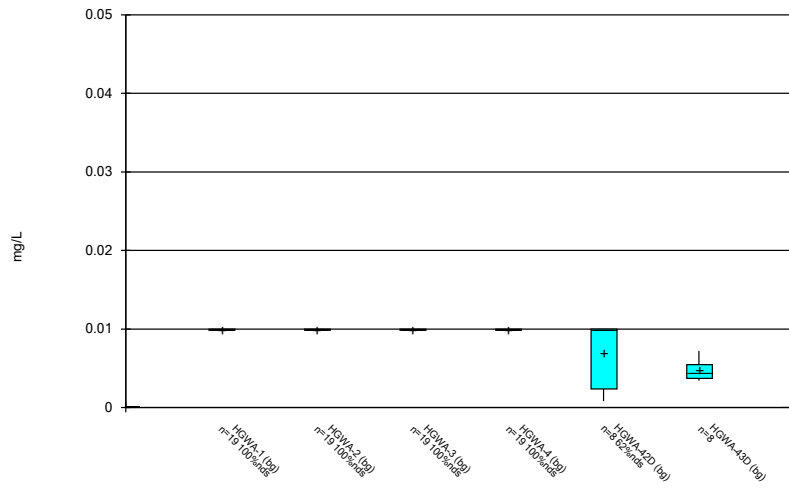
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Box & Whiskers Plot



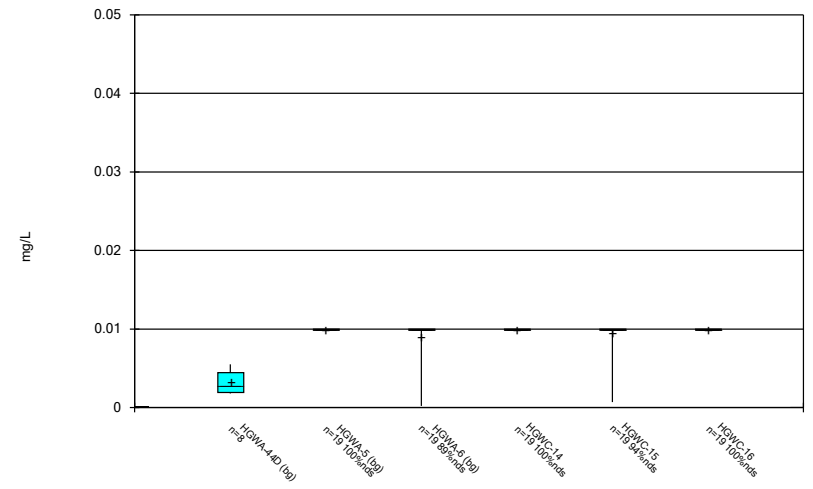
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Box & Whiskers Plot



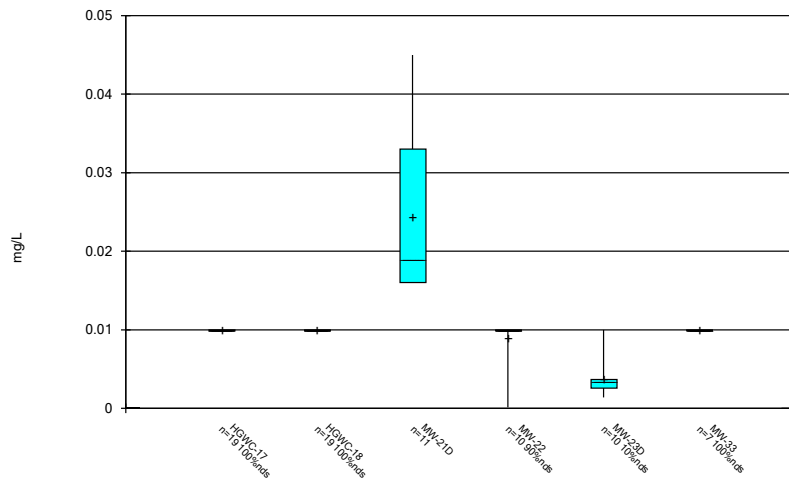
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Box & Whiskers Plot



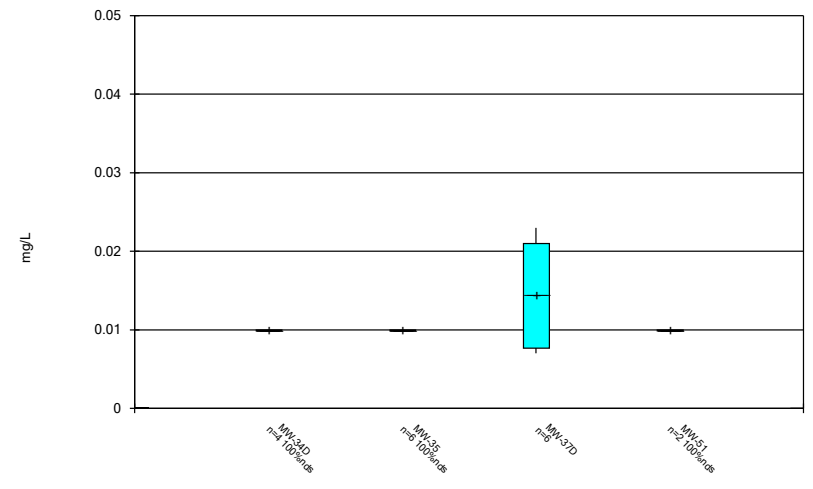
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Box & Whiskers Plot



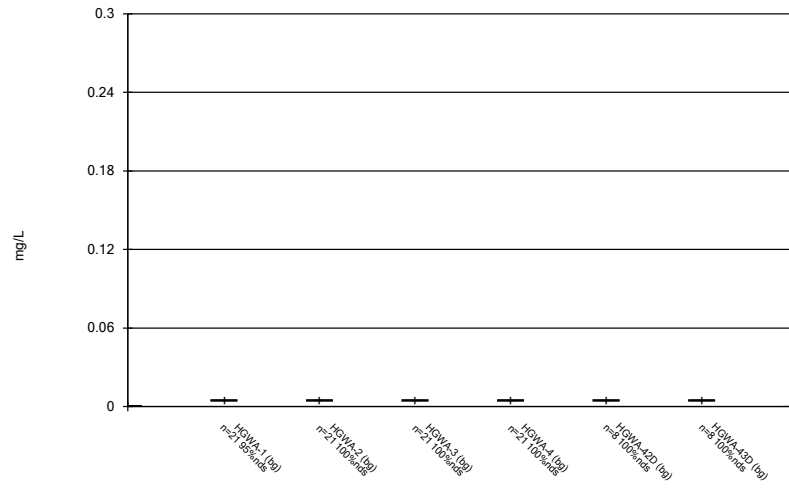
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



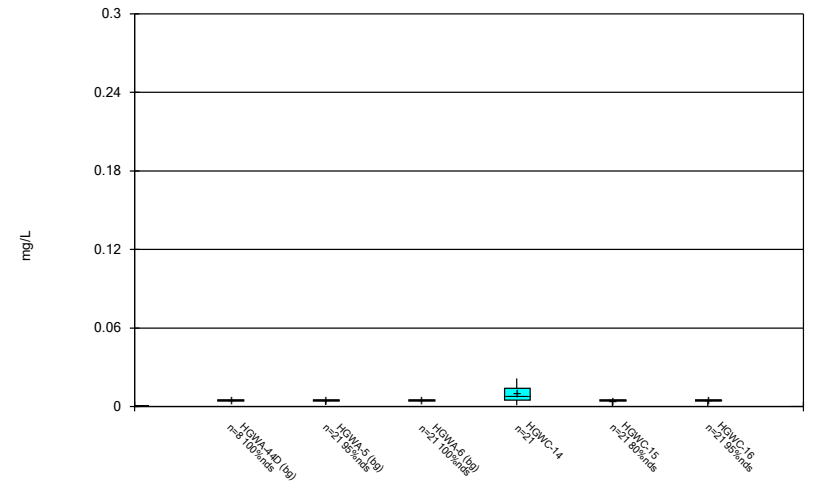
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



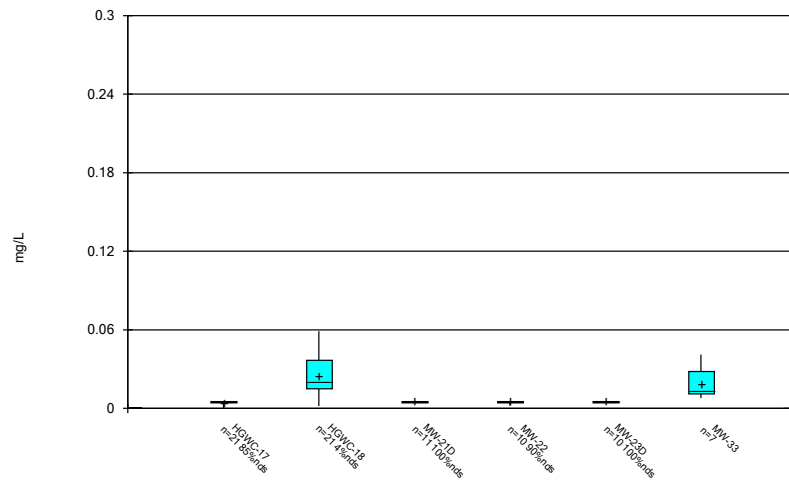
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



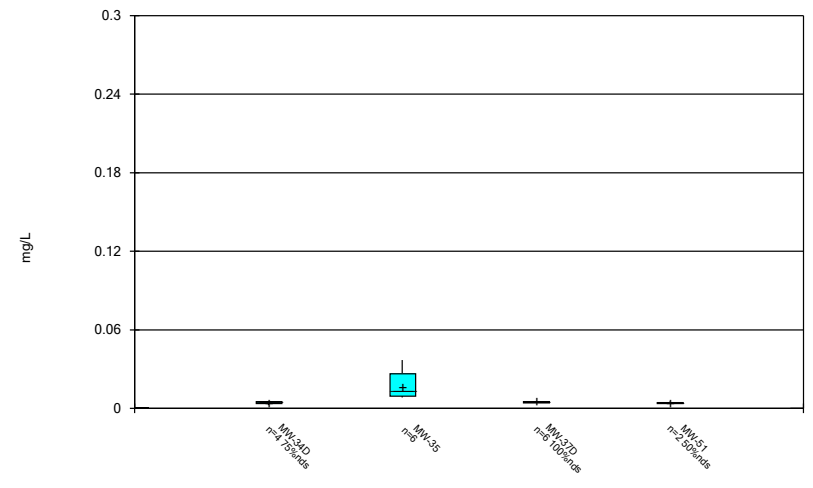
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



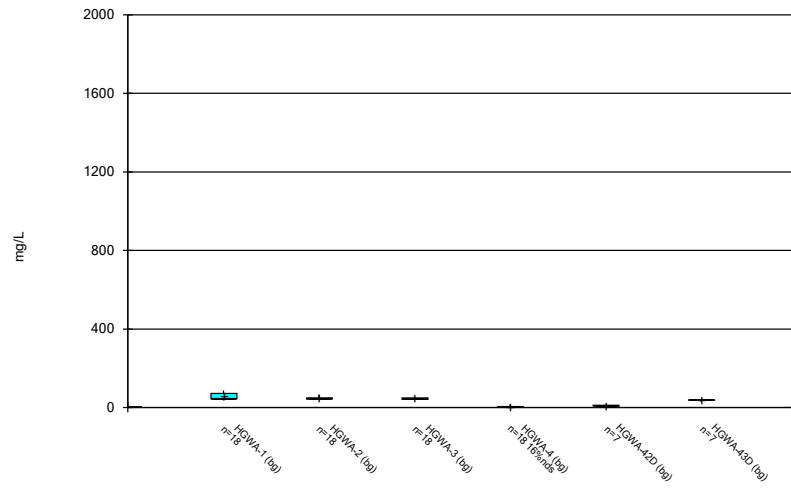
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Box & Whiskers Plot



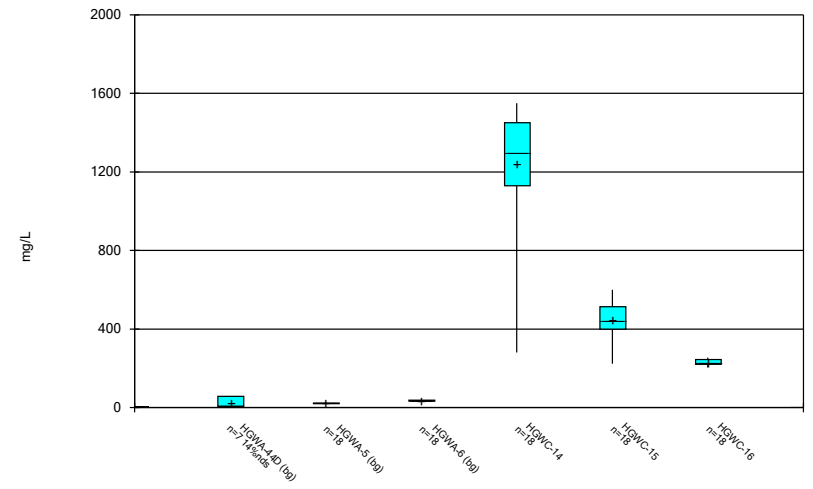
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



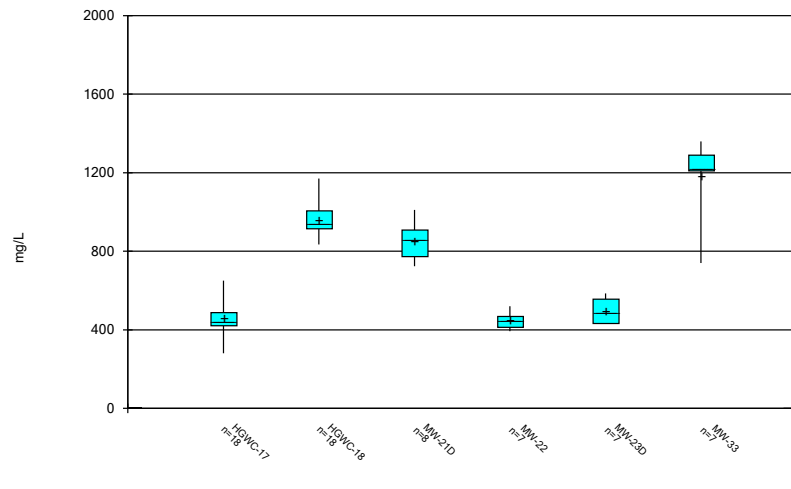
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



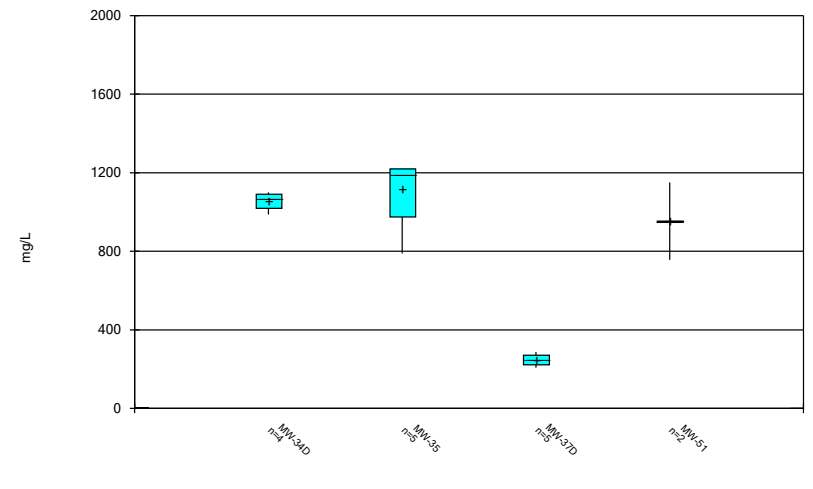
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



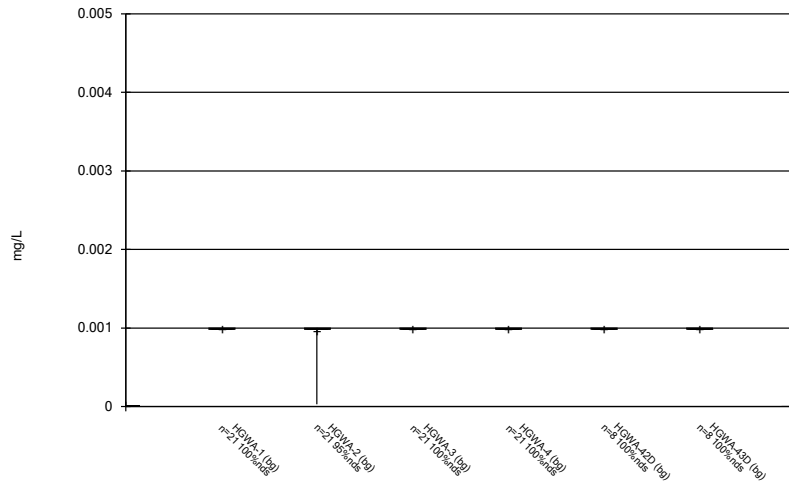
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Box & Whiskers Plot



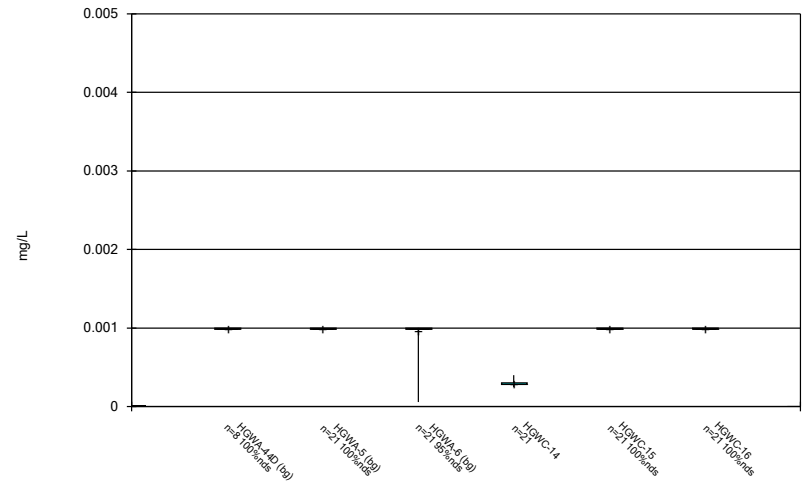
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



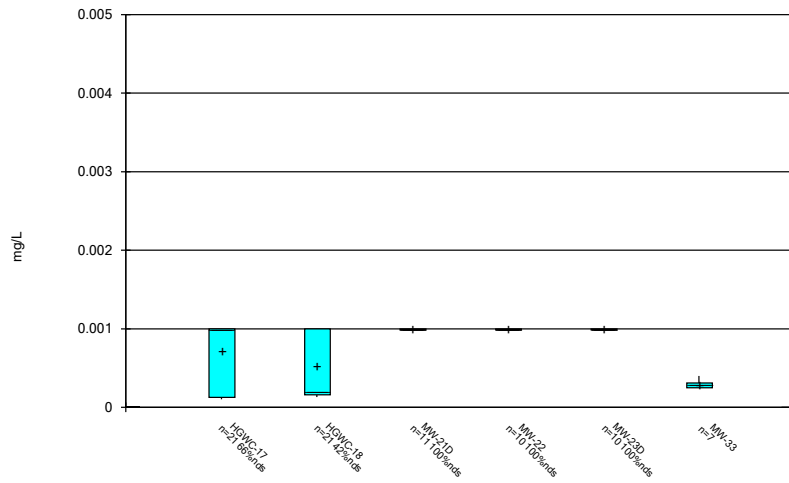
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Box & Whiskers Plot



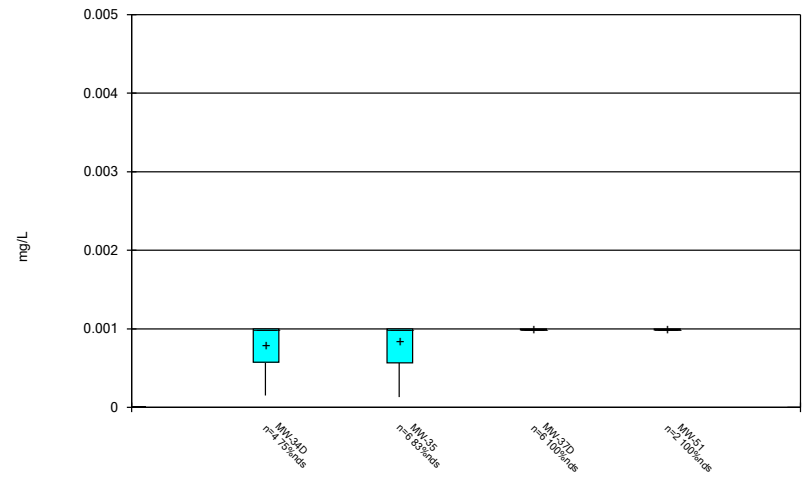
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Box & Whiskers Plot



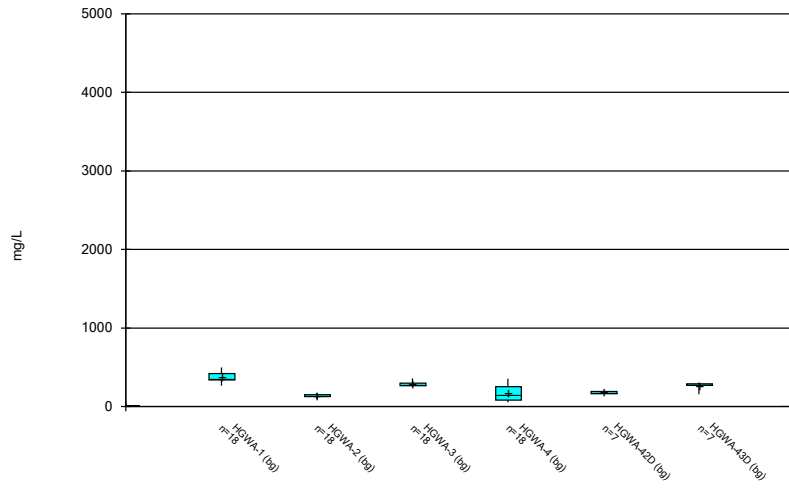
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Box & Whiskers Plot



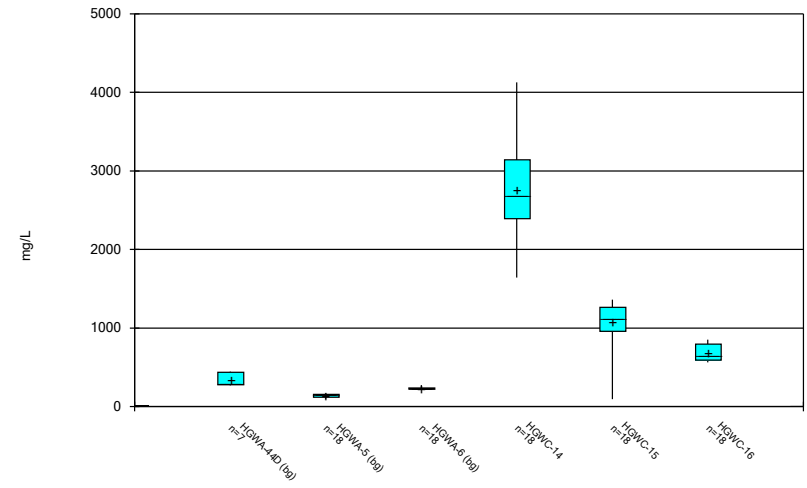
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



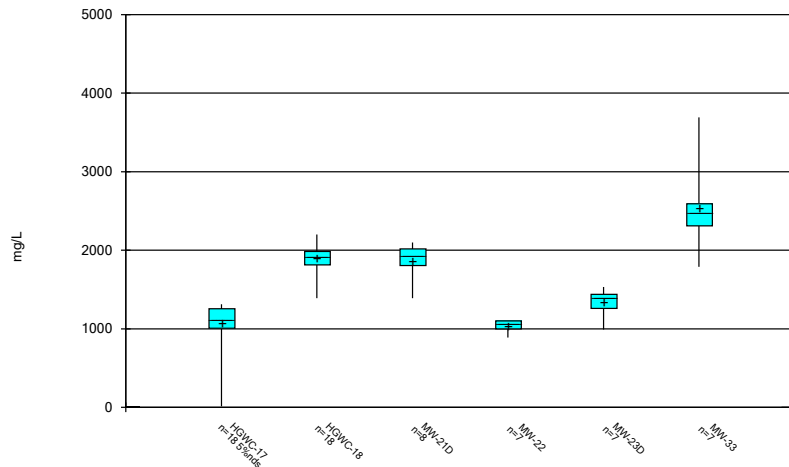
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



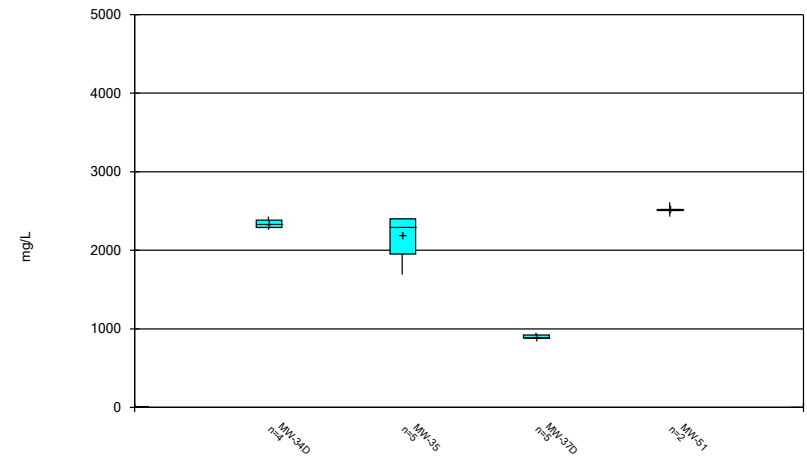
Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:31 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:31 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2022 4:31 PM
Plant Hammond Client: Southern Company Data: Hammond AP-2

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:32 PM

No outliers were flagged.

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/9/2022	9.9	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/8/2022	1.9	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/8/2022	2.6	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	2/8/2022	7.8	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/8/2022	8.1	Yes	129	n/a	n/a	n/a	6.202	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	143.5	n/a	2/9/2022	571	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-15	143.5	n/a	2/8/2022	186	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-16	143.5	n/a	2/8/2022	218	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-17	143.5	n/a	2/8/2022	280	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Calcium (mg/L)	HGWC-18	143.5	n/a	2/8/2022	418	Yes	129	3.802	0.6492	0	None		ln(x)	0.001504	Param Inter 1 of 2
Chloride (mg/L)	HGWC-14	44.8	n/a	2/9/2022	174	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-15	44.8	n/a	2/8/2022	76.6	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-16	44.8	n/a	2/8/2022	96.4	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-17	44.8	n/a	2/8/2022	117	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-18	44.8	n/a	2/8/2022	105	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-18	8.25	4.9	2/8/2022	4.59	Yes	156	n/a	n/a	0	n/a	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-14	85.9	n/a	2/9/2022	1190	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-15	85.9	n/a	2/8/2022	360	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-16	85.9	n/a	2/8/2022	238	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-17	85.9	n/a	2/8/2022	364	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-18	85.9	n/a	2/8/2022	960	Yes	129	n/a	n/a	3.101	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/9/2022	2310	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/8/2022	866	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/8/2022	852	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	2/8/2022	1160	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/8/2022	1770	Yes	129	n/a	n/a	0	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2

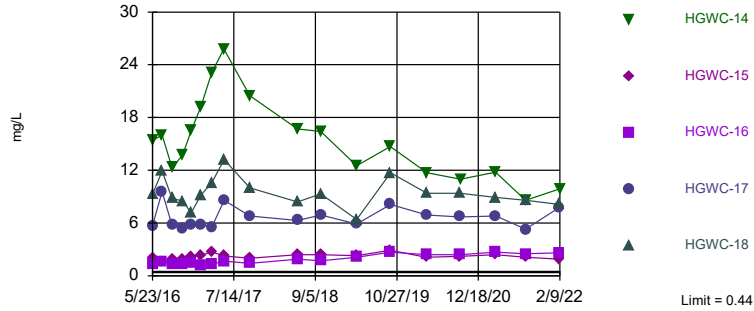
Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/9/2022	9.9	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/8/2022	1.9	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/8/2022	2.6	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	2/8/2022	7.8	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/8/2022	8.1	Yes	129	n/a	n/a	6.202	n/a	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	143.5	n/a	2/9/2022	571	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-15	143.5	n/a	2/8/2022	186	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-16	143.5	n/a	2/8/2022	218	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-17	143.5	n/a	2/8/2022	280	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-18	143.5	n/a	2/8/2022	418	Yes	129	3.802	0.6492	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Chloride (mg/L)	HGWC-14	44.8	n/a	2/9/2022	174	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-15	44.8	n/a	2/8/2022	76.6	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-16	44.8	n/a	2/8/2022	96.4	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-17	44.8	n/a	2/8/2022	117	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-18	44.8	n/a	2/8/2022	105	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-14	8.25	4.9	2/9/2022	4.97	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-15	8.25	4.9	2/8/2022	6.04	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-16	8.25	4.9	2/8/2022	7.18	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-17	8.25	4.9	2/8/2022	6.42	No	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-18	8.25	4.9	2/8/2022	4.59	Yes	156	n/a	n/a	0	n/a	n/a	0.0001624	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-14	0.96	n/a	2/9/2022	0.053J	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-15	0.96	n/a	2/8/2022	0.1ND	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-16	0.96	n/a	2/8/2022	0.1ND	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-17	0.96	n/a	2/8/2022	0.055J	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-18	0.96	n/a	2/8/2022	0.19	No	156	n/a	n/a	34.62	n/a	n/a	0.00008118	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-14	85.9	n/a	2/9/2022	1190	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-15	85.9	n/a	2/8/2022	360	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-16	85.9	n/a	2/8/2022	238	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-17	85.9	n/a	2/8/2022	364	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-18	85.9	n/a	2/8/2022	960	Yes	129	n/a	n/a	3.101	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/9/2022	2310	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/8/2022	866	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/8/2022	852	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	2/8/2022	1160	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/8/2022	1770	Yes	129	n/a	n/a	0	n/a	n/a	0.0001191	NP Inter (normality) 1 of 2	

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric

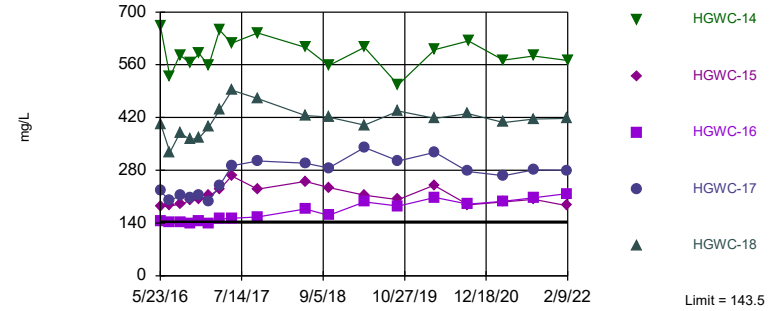


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 129 background values. 6.202% NDs. Annual per-constituent alpha = 0.001191. Individual comparison alpha = 0.0001191 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Parametric

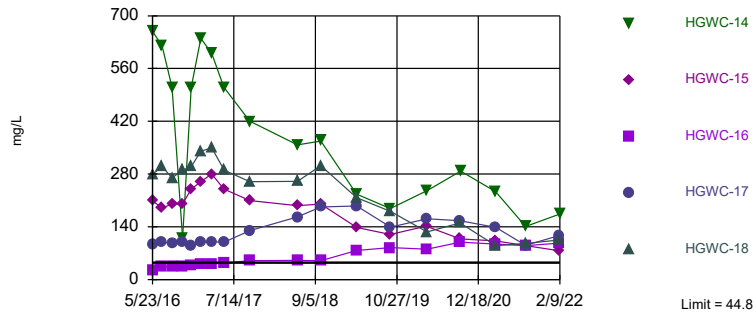


Background Data Summary (based on natural log transformation): Mean=3.802, Std. Dev.=0.6492, n=129. Normality test: Chi Squared @alpha = 0.01, calculated = 9.217, critical = 14.07. Kappa = 1.793 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001504. Comparing 5 points to limit.

Constituent: Calcium Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric

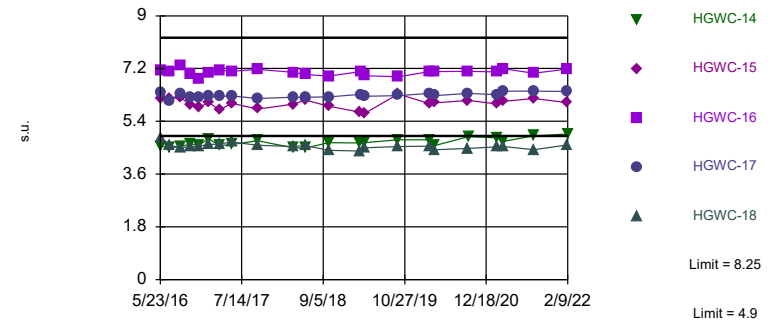


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 129 background values. Annual per-constituent alpha = 0.001191. Individual comparison alpha = 0.0001191 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limits: HGWC-18

Prediction Limit
Interwell Non-parametric

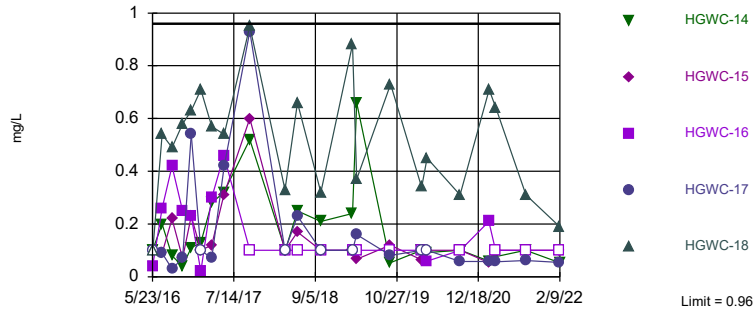


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 156 background values. Annual per-constituent alpha = 0.001623. Individual comparison alpha = 0.0001624 (1 of 2). Comparing 5 points to limit.

Constituent: Field pH Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Within Limit

Prediction Limit
Interwell Non-parametric

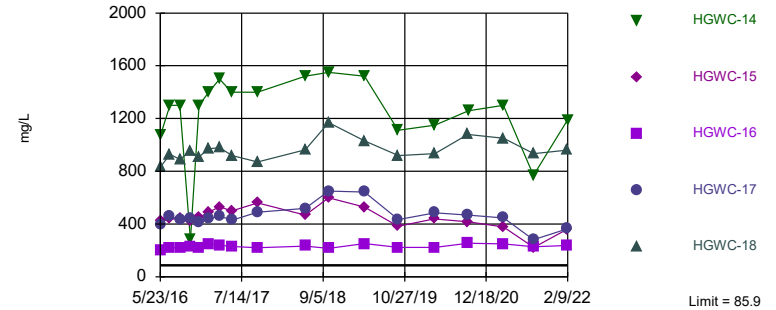


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 156 background values. 34.62% NDs. Annual per-constituent alpha = 0.0008115. Individual comparison alpha = 0.0008118 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15,
HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric

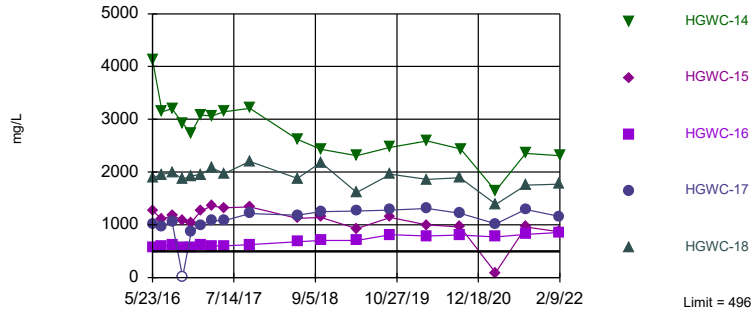


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 129 background values. 3.101% NDs. Annual per-constituent alpha = 0.001191. Individual comparison alpha = 0.0001191 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15,
HGWC-16, HGWC-17, HGWC-18

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 129 background values. Annual per-constituent alpha = 0.001191. Individual comparison alpha = 0.0001191 (1 of 2). Comparing 5 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:04 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	15.4				
5/24/2016		9.33			
7/11/2016					
7/12/2016	16	11.9			
8/30/2016					
9/1/2016	12.3	8.8			
10/19/2016					
10/20/2016					
10/24/2016	13.7				
10/25/2016		8.5			
12/6/2016					
12/7/2016	16.5				
12/8/2016		7.15			
1/24/2017					
1/26/2017	19.2	9.17			
3/21/2017					
3/22/2017					
3/23/2017	23.1	10.6			
5/22/2017					
5/23/2017					
5/24/2017	25.8				
5/25/2017		13.2			
10/3/2017					
10/4/2017	20.5	10			
6/4/2018					
6/5/2018		8.4			
6/6/2018	16.7				
10/1/2018					
10/2/2018					
10/3/2018	16.4	9.3			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	12.5	6.4			
9/23/2019					
9/24/2019	14.7				
9/25/2019		11.7			
3/25/2020					
3/26/2020					
3/30/2020	11.7				
3/31/2020		9.4			
9/15/2020		9.4			
9/16/2020			0.061 (J)	0.23	
9/17/2020					0.098 (J)
9/18/2020	11				
11/10/2020			0.057 (J)	0.29	
11/11/2020					0.058 (J)
12/15/2020			0.052 (J)	0.31	0.043 (J)
1/19/2021			0.049 (J)	0.4	
1/20/2021					0.045 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
3/10/2021				0.39	0.048
3/11/2021			0.06		
3/16/2021					
3/17/2021	11.8				
3/18/2021		8.9			
8/11/2021			0.042		
8/12/2021					0.044
8/13/2021				0.31	
8/18/2021	8.6				
8/19/2021		8.6			
2/1/2022			0.05	0.44	
2/7/2022					0.047
2/8/2022		8.1			
2/9/2022	9.9				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	664				
5/24/2016		403			
7/11/2016					
7/12/2016	528	328			
8/30/2016					
9/1/2016	586	379			
10/19/2016					
10/20/2016					
10/24/2016	564				
10/25/2016		362			
12/6/2016					
12/7/2016	590				
12/8/2016		366			
1/24/2017					
1/26/2017	558	394			
3/21/2017					
3/22/2017					
3/23/2017	652	440			
5/22/2017					
5/23/2017					
5/24/2017	617				
5/25/2017		492			
10/3/2017					
10/4/2017	644	470			
6/4/2018					
6/5/2018		425			
6/6/2018	606				
10/1/2018					
10/2/2018					
10/3/2018	558	421			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	606	400			
9/23/2019					
9/24/2019	507				
9/25/2019		437			
3/25/2020					
3/26/2020					
3/30/2020	600				
3/31/2020		418			
9/15/2020		430			
9/16/2020			56	30	
9/17/2020					43.8
9/18/2020	623				
11/10/2020			63.3	33.6	
11/11/2020					44.4
12/15/2020			62.6	28.7	47.3
1/19/2021			60.1	33	
1/20/2021					41.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
3/10/2021				18.3	43.4
3/11/2021			59.6		
3/16/2021					
3/17/2021	572				
3/18/2021		407			
8/11/2021			61		
8/12/2021					43.6
8/13/2021				28.9	
8/18/2021	583				
8/19/2021		416			
2/1/2022			55.9	24.8	
2/7/2022					48.7
2/8/2022		418			
2/9/2022	571				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	659				
5/24/2016		280			
7/11/2016					
7/12/2016	620	300			
8/30/2016					
9/1/2016	510	270			
10/19/2016					
10/20/2016					
10/24/2016	110				
10/25/2016		290			
12/6/2016					
12/7/2016	510				
12/8/2016		300			
1/24/2017					
1/26/2017	640	340			
3/21/2017					
3/22/2017					
3/23/2017	600	350			
5/22/2017					
5/23/2017					
5/24/2017	510				
5/25/2017		290			
10/3/2017					
10/4/2017	420	260			
6/4/2018					
6/5/2018		261			
6/6/2018	357				
10/1/2018					
10/2/2018					
10/3/2018	368	302			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	227	217			
9/23/2019					
9/24/2019	188				
9/25/2019		181			
3/25/2020					
3/26/2020					
3/30/2020	236				
3/31/2020		126			
9/15/2020		150			
9/16/2020			4.1	7.2	
9/17/2020					5.8
9/18/2020	288				
11/10/2020			4.4	7.8	
11/11/2020					3.1
12/15/2020			4.7	9.4	3.2
1/19/2021			4.1	9.5	
1/20/2021					2.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
3/10/2021				12.3	3
3/11/2021			4.5		
3/16/2021					
3/17/2021	233				
3/18/2021		90.2			
8/11/2021			3.5		
8/12/2021					2.6
8/13/2021				39.9	
8/18/2021	141				
8/19/2021		95.8			
2/1/2022			4.1	44.8	
2/7/2022					3.1
2/8/2022		105			
2/9/2022	174				

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	7.15				
5/24/2016		4.83			
7/11/2016					
7/12/2016	7.1	4.58			
8/30/2016					
9/1/2016	7.29	4.51			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	7.03	4.53			
12/6/2016					
12/7/2016	6.85				
12/8/2016		4.56			
1/24/2017					
1/26/2017	7.07	4.61			
3/21/2017					
3/22/2017	7.15				
3/23/2017		4.63			
5/22/2017					
5/23/2017					
5/24/2017	7.11				
5/25/2017		4.69			
10/3/2017					
10/4/2017	7.17	4.58			
4/2/2018					
4/3/2018	7.07	4.54			
4/4/2018					
6/4/2018					
6/5/2018		4.57			
6/6/2018	7				
10/1/2018					
10/2/2018					
10/3/2018	6.94	4.41			
3/11/2019					
3/12/2019					
3/14/2019		4.39			
3/15/2019	7.09				
4/1/2019					
4/2/2019					
4/4/2019	6.95				
4/5/2019		4.5			
9/23/2019					
9/24/2019					
9/25/2019	6.92	4.54			
3/2/2020					
3/3/2020	7.1	4.55			
3/25/2020					
3/26/2020					
3/30/2020	7.09				
3/31/2020		4.43			

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
9/15/2020		4.47			
9/16/2020			7.83	7.52	
9/17/2020	7.11				7.62
9/18/2020					
11/10/2020			7.84	7.27	
11/11/2020					7.68
12/15/2020			7.87	7.39	7.64
1/19/2021			7.86	7.39	
1/20/2021					7.68
2/8/2021					7.64
2/9/2021			7.84	7.44	
2/10/2021	7.08				
2/11/2021		4.53			
2/12/2021					
3/10/2021			7.92		7.7
3/11/2021				7.46	
3/16/2021					
3/17/2021	7.19				
3/18/2021		4.54			
8/11/2021				7.4	
8/12/2021					7.7
8/13/2021			7.77		
8/18/2021					
8/19/2021	7.04	4.43			
2/1/2022			8.25	7.52	
2/7/2022					7.85
2/8/2022	7.18	4.59			
2/9/2022					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-15	HGWC-14	HGWC-17
9/15/2020	0.082 (J)	<0.1	<0.1	<0.1	0.061 (J)	<0.1			
9/16/2020									0.058 (J)
9/17/2020							<0.1		
9/18/2020								<0.1	
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									
2/8/2021	0.078 (J)	<0.1							
2/9/2021			0.074 (J)	<0.1	0.053 (J)	<0.1			
2/10/2021									
2/11/2021								0.059 (J)	0.058 (J)
2/12/2021							0.053 (J)		
3/10/2021	0.079 (J)	<0.1							
3/11/2021			<0.1	0.1	0.06 (J)	0.17			
3/16/2021							<0.1		
3/17/2021								0.076 (J)	
3/18/2021									0.057 (J)
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1	<0.1	<0.1	<0.1			
8/13/2021									
8/18/2021								<0.1	0.062 (J)
8/19/2021							<0.1		
2/1/2022	0.064 (J)		<0.1	<0.1					
2/7/2022		<0.1			<0.1	<0.1			
2/8/2022							<0.1		0.055 (J)
2/9/2022								0.053 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	0.038 (J)				
5/24/2016		<0.1			
7/11/2016					
7/12/2016	0.26 (J)	0.54			
8/30/2016					
9/1/2016	0.42	0.49			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	0.25 (J)	0.58			
12/6/2016					
12/7/2016	0.23 (J)				
12/8/2016		0.63			
1/24/2017					
1/26/2017	0.02 (J)	0.71			
3/21/2017					
3/22/2017	0.3				
3/23/2017		0.57			
5/22/2017					
5/23/2017					
5/24/2017	0.46				
5/25/2017		0.54			
10/3/2017					
10/4/2017	<0.1	0.95			
4/2/2018					
4/3/2018	<0.1	0.33			
4/4/2018					
6/4/2018					
6/5/2018		0.66			
6/6/2018	<0.1				
10/1/2018					
10/2/2018					
10/3/2018	<0.1	0.32			
3/11/2019					
3/12/2019					
3/14/2019		0.88			
3/15/2019	<0.1				
4/1/2019					
4/2/2019					
4/4/2019	<0.1				
4/5/2019		0.37			
9/23/2019					
9/24/2019					
9/25/2019	<0.1	0.73			
3/2/2020					
3/3/2020	<0.1	0.34			
3/25/2020					
3/26/2020					
3/30/2020	0.059 (J)				
3/31/2020		0.45			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
9/15/2020		0.31			
9/16/2020			0.52	0.22	
9/17/2020	<0.1				0.2
9/18/2020					
11/10/2020			0.59	0.19	
11/11/2020					0.1
12/15/2020			0.67	0.21	0.11
1/19/2021			0.74	0.16	
1/20/2021					0.082 (J)
2/8/2021					0.096 (J)
2/9/2021			0.44	0.19	
2/10/2021	0.21				
2/11/2021		0.71			
2/12/2021					
3/10/2021			0.65		0.11
3/11/2021				0.2	
3/16/2021					
3/17/2021	<0.1				
3/18/2021		0.64			
8/11/2021				0.15	
8/12/2021					0.079 (J)
8/13/2021			0.87		
8/18/2021					
8/19/2021	<0.1	0.31			
2/1/2022			0.96	0.19	
2/7/2022					0.085 (J)
2/8/2022	<0.1	0.19			
2/9/2022					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	1070				
5/24/2016		834			
7/11/2016					
7/12/2016	1300	930			
8/30/2016					
9/1/2016	1300	890			
10/19/2016					
10/20/2016					
10/24/2016	280				
10/25/2016		950			
12/6/2016					
12/7/2016	1300				
12/8/2016		910			
1/24/2017					
1/26/2017	1400	970			
3/21/2017					
3/22/2017					
3/23/2017	1500	980			
5/22/2017					
5/23/2017					
5/24/2017	1400				
5/25/2017		920			
10/3/2017					
10/4/2017	1400	870			
6/4/2018					
6/5/2018		962			
6/6/2018	1520				
10/1/2018					
10/2/2018					
10/3/2018	1550	1170			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	1520	1030			
9/23/2019					
9/24/2019	1110				
9/25/2019		920			
3/25/2020					
3/26/2020					
3/30/2020	1150				
3/31/2020		934			
9/15/2020		1080			
9/16/2020			43	6.9	
9/17/2020					10.9
9/18/2020	1260				
11/10/2020			39	6.3	
11/11/2020					9.4
12/15/2020			38.8	6.7	10.9
1/19/2021			37.3	7.4	
1/20/2021					9.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
3/10/2021				<1	10.8
3/11/2021			38.6		
3/16/2021					
3/17/2021	1300				
3/18/2021		1050			
8/11/2021			30.5		
8/12/2021					7.8
8/13/2021				56.1	
8/18/2021	768				
8/19/2021		934			
2/1/2022			37.5	56.3	
2/7/2022					10.4
2/8/2022		960			
2/9/2022	1190				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	4130				
5/24/2016		1900			
7/11/2016					
7/12/2016	3140	1950			
8/30/2016					
9/1/2016	3200	2000			
10/19/2016					
10/20/2016					
10/24/2016	2920				
10/25/2016		1870			
12/6/2016					
12/7/2016	2740				
12/8/2016		1930			
1/24/2017					
1/26/2017	3080	1950			
3/21/2017					
3/22/2017					
3/23/2017	3060	2080			
5/22/2017					
5/23/2017					
5/24/2017	3140				
5/25/2017		1970			
10/3/2017					
10/4/2017	3210	2200			
6/4/2018					
6/5/2018		1880			
6/6/2018	2620				
10/1/2018					
10/2/2018					
10/3/2018	2430	2180			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	2310	1610			
9/23/2019					
9/24/2019	2470				
9/25/2019		1960			
3/25/2020					
3/26/2020					
3/30/2020	2590				
3/31/2020		1860			
9/15/2020		1890			
9/16/2020			272	270	
9/17/2020					188
9/18/2020	2440				
11/10/2020			307	287	
11/11/2020					175
12/15/2020			289	295	193
1/19/2021			270	278	
1/20/2021					158

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 6:05 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
3/10/2021				289	163
3/11/2021			279		
3/16/2021					
3/17/2021	1640				
3/18/2021		1390			
8/11/2021			277		
8/12/2021					179
8/13/2021				436	
8/18/2021	2350				
8/19/2021		1750			
2/1/2022			156	444	
2/7/2022					190
2/8/2022		1770			
2/9/2022	2310				

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2592	105	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.416	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.763	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	13.65	120	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4101	-117	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.09427	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-82.72	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-24.78	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	13.04	137	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-37.28	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.2883	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-31.44	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-185.6	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.63	117	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	63.57	86	68	Yes	18	5.556	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0002287	-9	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0	-1	-68	No	18	16.67	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-4 (bg)	-0.0007228	-34	-68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-42D (bg)	-0.009419	-7	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.01252	-11	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.1524	14	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-5 (bg)	0.0001545	14	68	No	18	16.67	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-6 (bg)	-0.0003871	-21	-68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.157	-61	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-15	0.04163	28	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2592	105	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-17	0.2168	31	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-18	-0.1628	-24	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.173	48	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.4885	35	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.416	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.763	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-42D (bg)	1.22	3	18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.578	-7	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-5.272	-9	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-5 (bg)	0.211	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-6 (bg)	0.3827	26	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-14	-3.303	-15	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-15	2.137	21	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	13.65	120	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-17	15.94	58	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-18	7.552	38	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.5239	40	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.1714	-45	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.129	-59	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4101	-117	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-42D (bg)	-0.8588	-10	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	-0.2444	-4	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-5 (bg)	-0.08595	-62	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.09427	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-82.72	-94	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-24.78	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	13.04	137	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-17	9.415	55	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-37.28	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-1 (bg)	-0.02122	-51	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-2 (bg)	-0.04158	-52	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-3 (bg)	0.003685	8	92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.2883	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-42D (bg)	0.1277	19	21	No	8	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-43D (bg)	0.09834	10	21	No	8	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-44D (bg)	0.1333	9	21	No	8	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-5 (bg)	-0.03318	-65	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-6 (bg)	-0.007348	-19	-92	No	22	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWC-18	-0.02025	-67	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.419	24	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	1.099	53	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-4 (bg)	-0.5358	-61	-68	No	18	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-42D (bg)	-0.4294	-6	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-8.864	-15	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	7.3	9	18	No	7	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-5 (bg)	-0.4179	-28	-68	No	18	0	n/a	n/a	0.01	NP

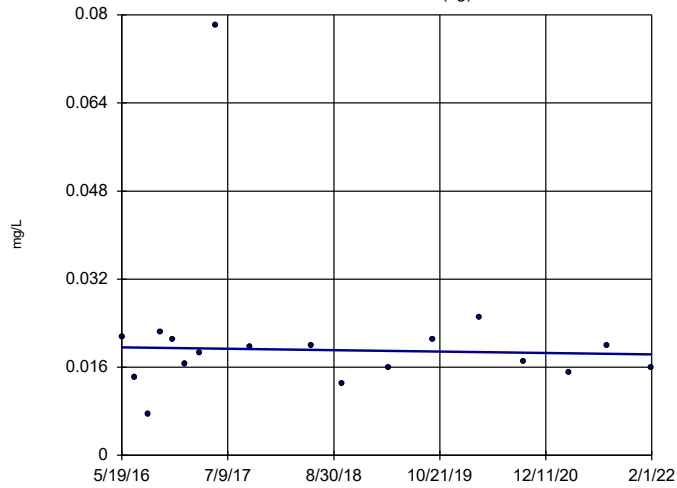
Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/27/2022, 6:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	HGWA-6 (bg)	-0.1792	-21	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-14	0	3	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-15	-12.58	-34	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-16	2.897	52	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-17	2.005	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-18	21.73	55	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	-2.458	-3	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	-1.375	-12	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-31.44	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-42D (bg)	1.437	1	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-42.44	-9	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	112.8	15	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-5 (bg)	-4.011	-32	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-6 (bg)	-1.024	-16	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-185.6	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-66.16	-68	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.63	117	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	63.57	86	68	Yes	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-18	-30.93	-44	-68	No	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

HGWA-1 (bg)

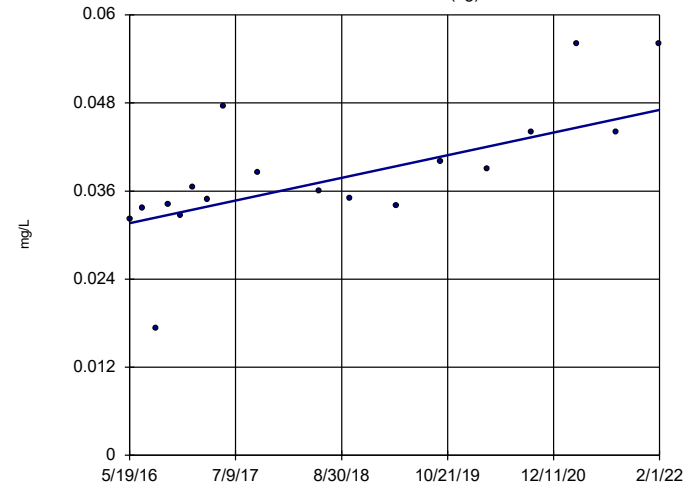


n = 18
 Slope = -0.0002287
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:06 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

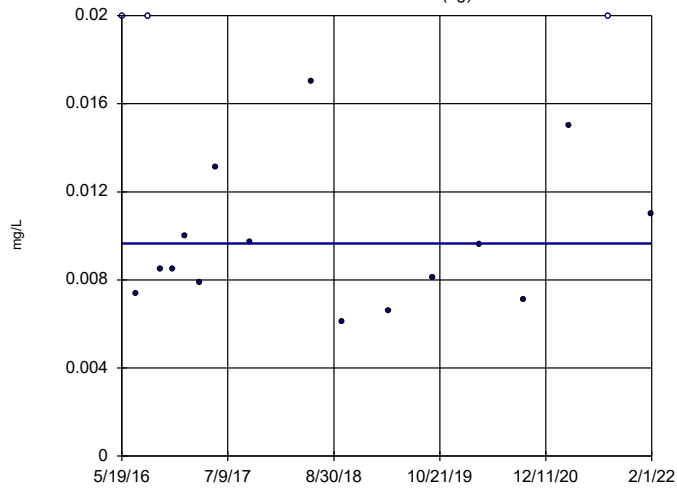


n = 18
 Slope = 0.002699
 units per year.
 Mann-Kendall
 statistic = 99
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:06 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

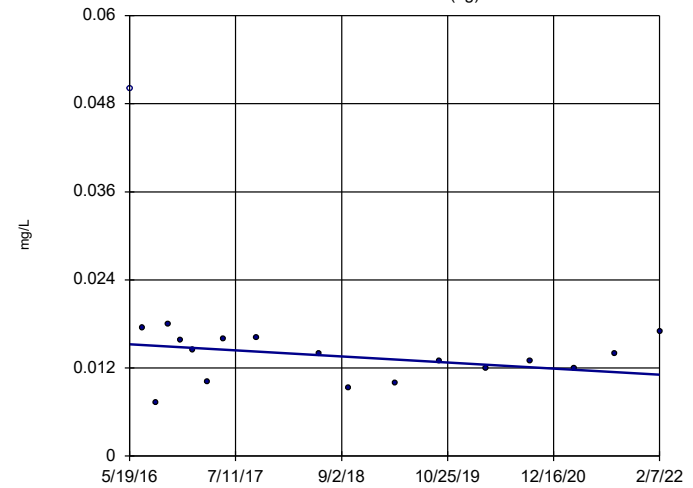


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:06 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

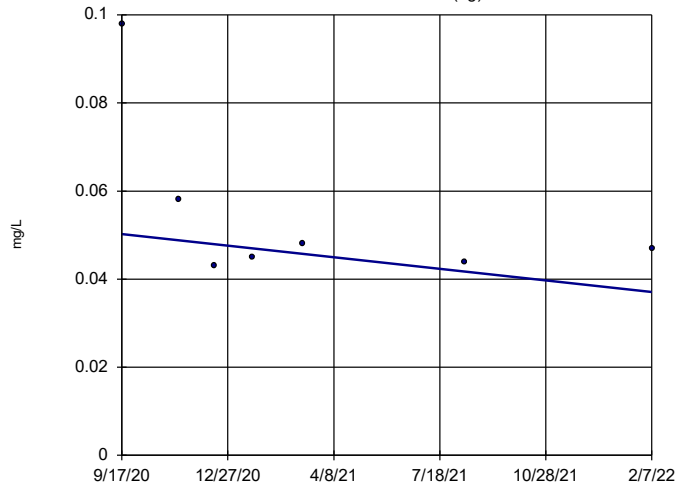


n = 18
 Slope = -0.0007228
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:06 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

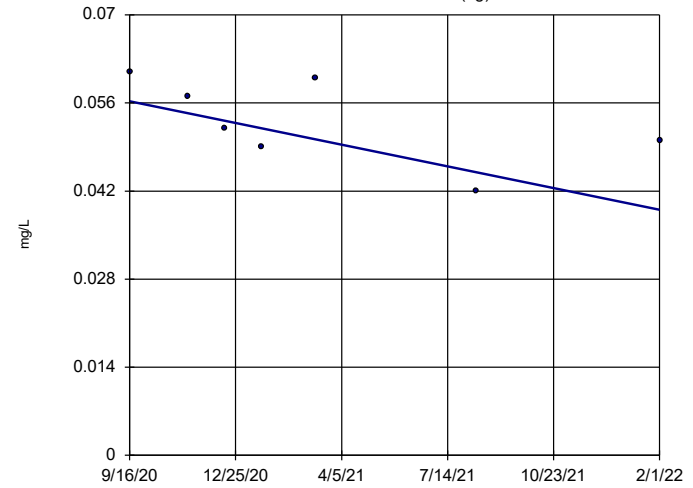


n = 7
 Slope = -0.009419 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/27/2022 6:06 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

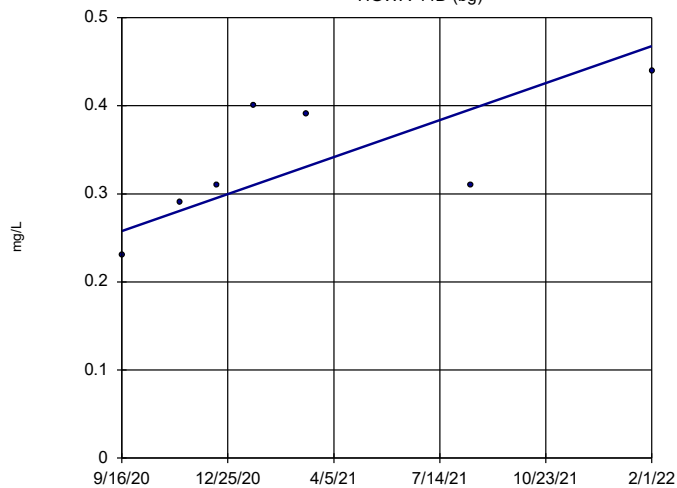


n = 7
 Slope = -0.01252 units per year.
 Mann-Kendall statistic = -11
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/27/2022 6:06 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

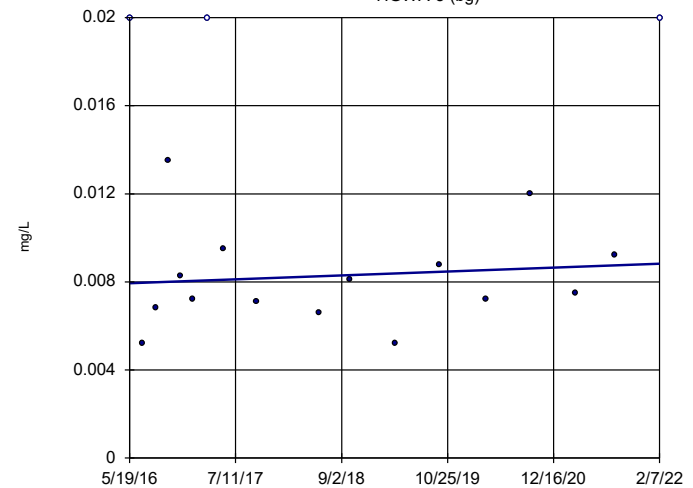


n = 7
 Slope = 0.1524 units per year.
 Mann-Kendall statistic = 14
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

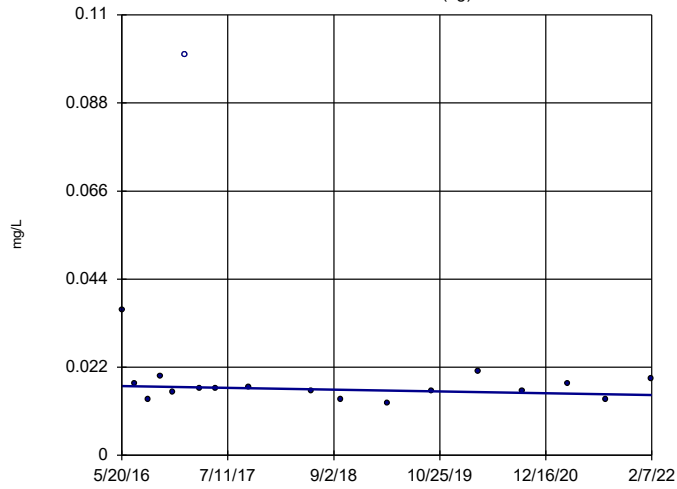


n = 18
 Slope = 0.0001545 units per year.
 Mann-Kendall statistic = 14
 critical = 68
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

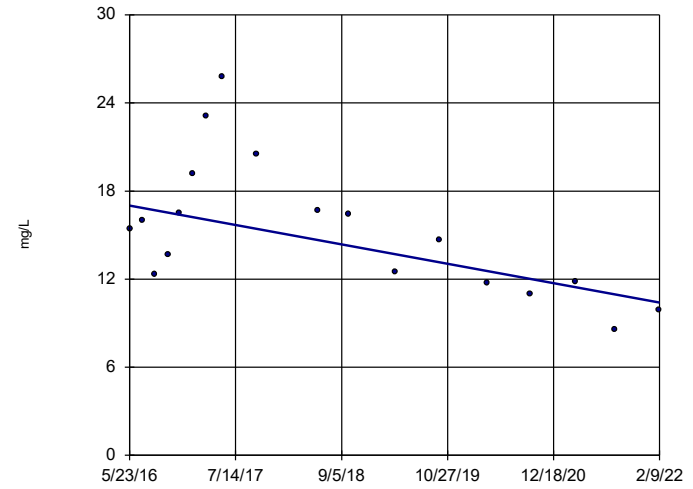


n = 18
 Slope = -0.0003871
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

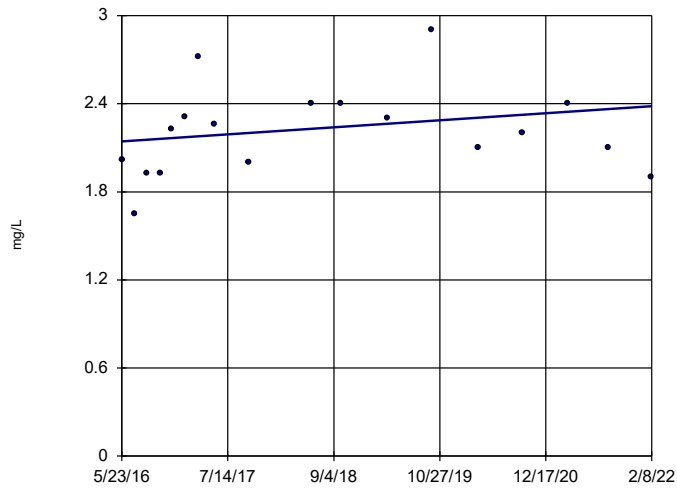


n = 18
 Slope = -1.157
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

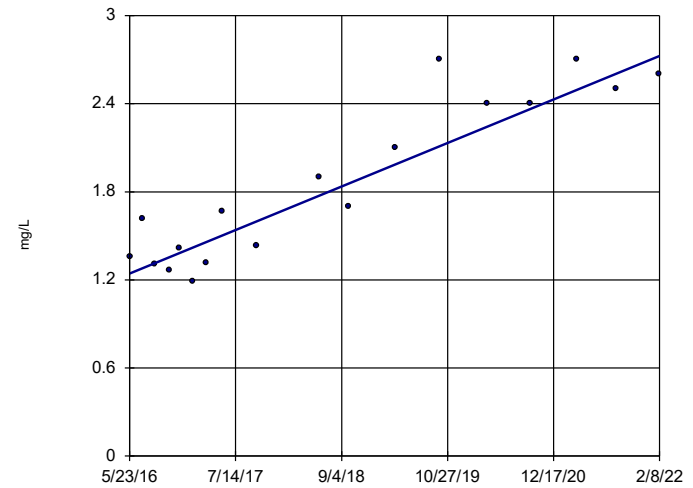


n = 18
 Slope = 0.04163
 units per year.
 Mann-Kendall
 statistic = 28
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

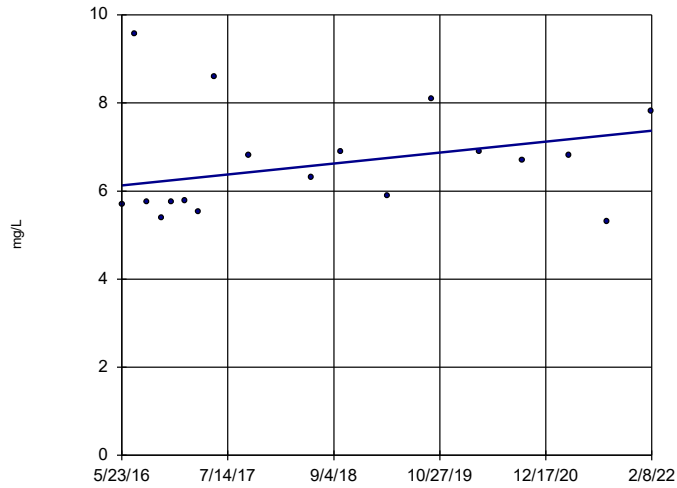
HGWC-16



n = 18
 Slope = 0.2592
 units per year.
 Mann-Kendall
 statistic = 105
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

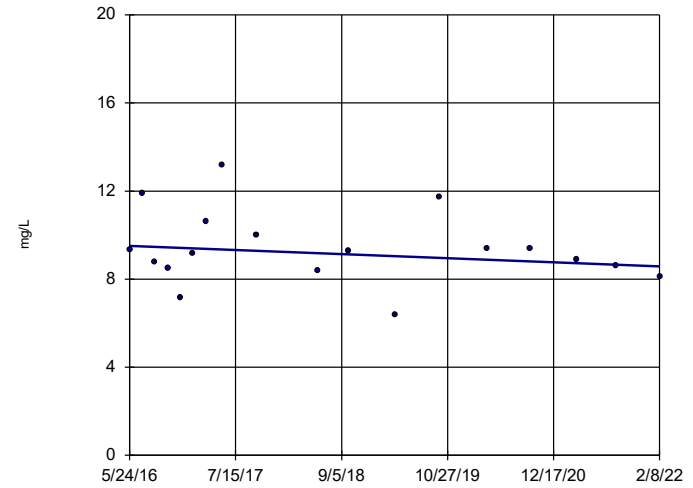
Sen's Slope Estimator HGWC-17



n = 18
 Slope = 0.2168
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

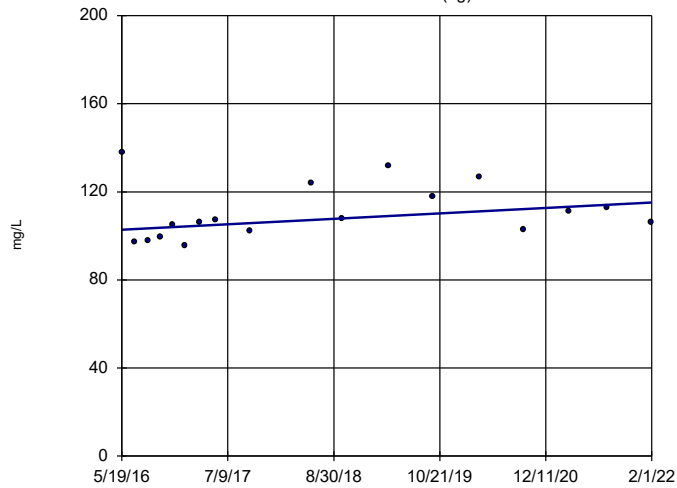
Sen's Slope Estimator HGWC-18



n = 18
 Slope = -0.1628
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

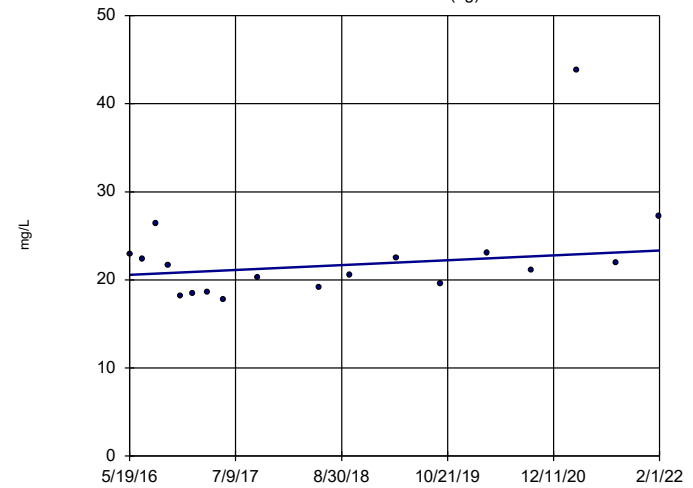
Sen's Slope Estimator HGWA-1 (bg)



n = 18
 Slope = 2.173
 units per year.
 Mann-Kendall
 statistic = 48
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWA-2 (bg)

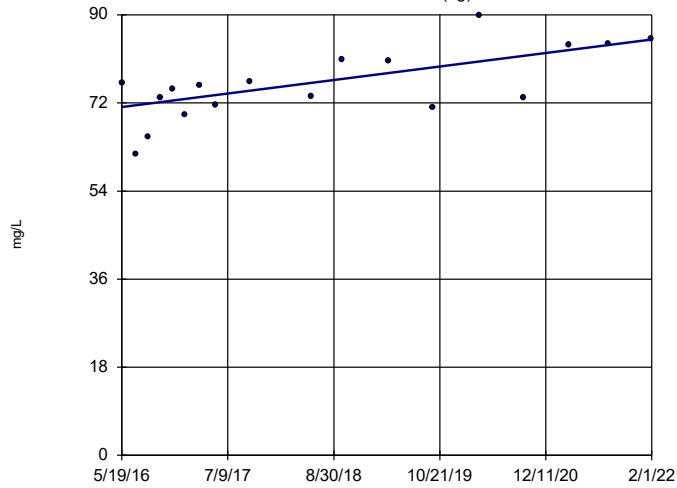


n = 18
 Slope = 0.4885
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

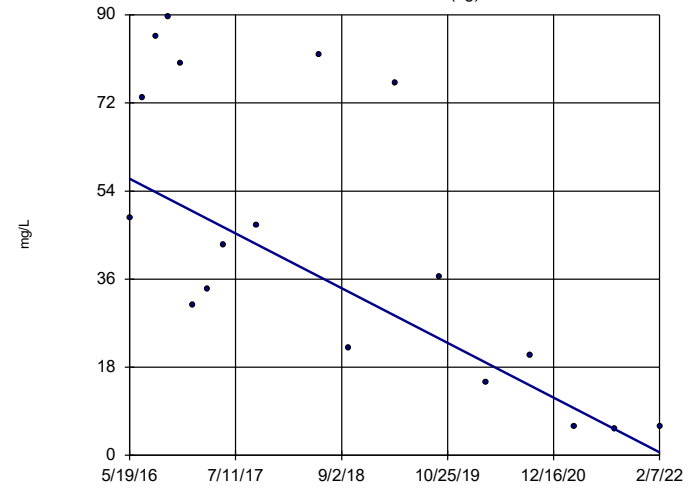


n = 18
 Slope = 2.416 units per year.
 Mann-Kendall statistic = 77
 critical = 68
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

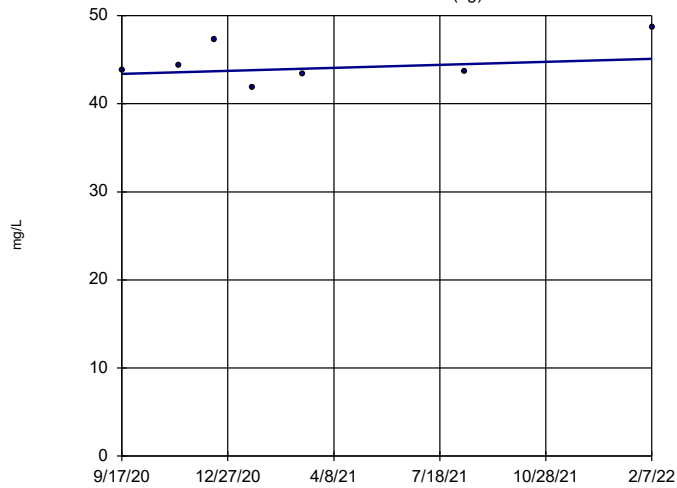


n = 18
 Slope = -9.763 units per year.
 Mann-Kendall statistic = -86
 critical = -68
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

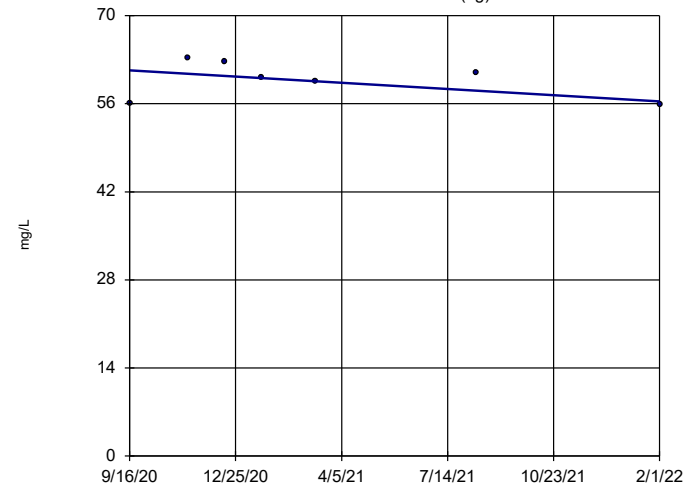


n = 7
 Slope = 1.22 units per year.
 Mann-Kendall statistic = 3
 critical = 18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

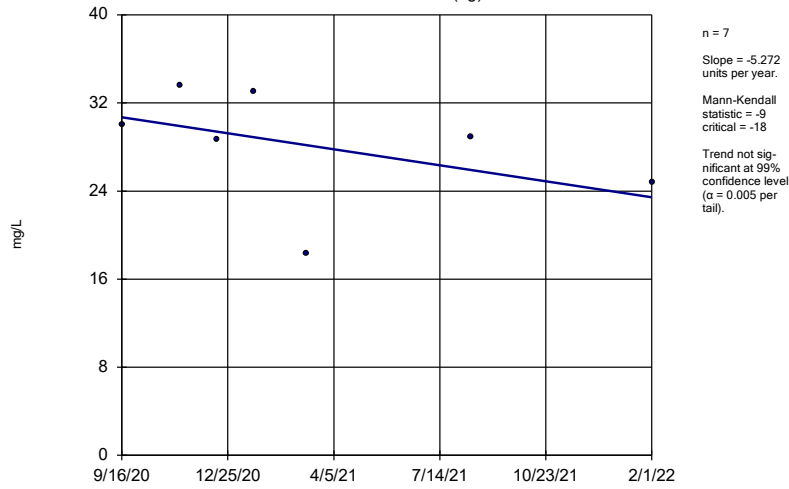


n = 7
 Slope = -3.578 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

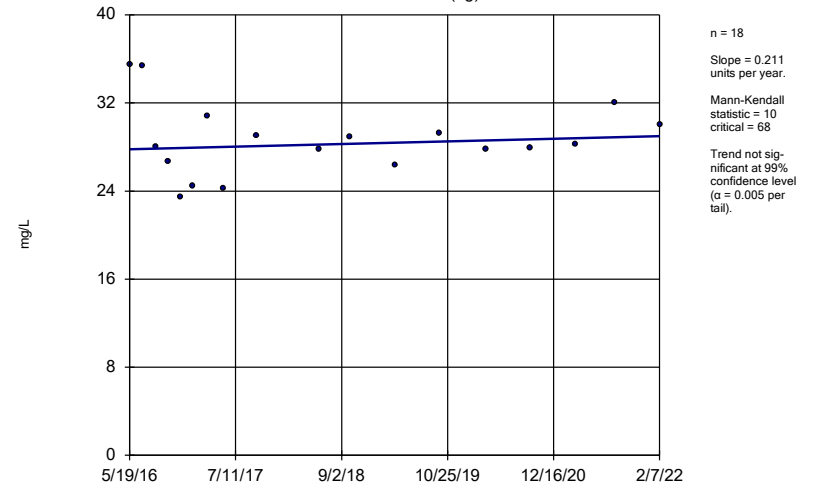
HGWA-44D (bg)



Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

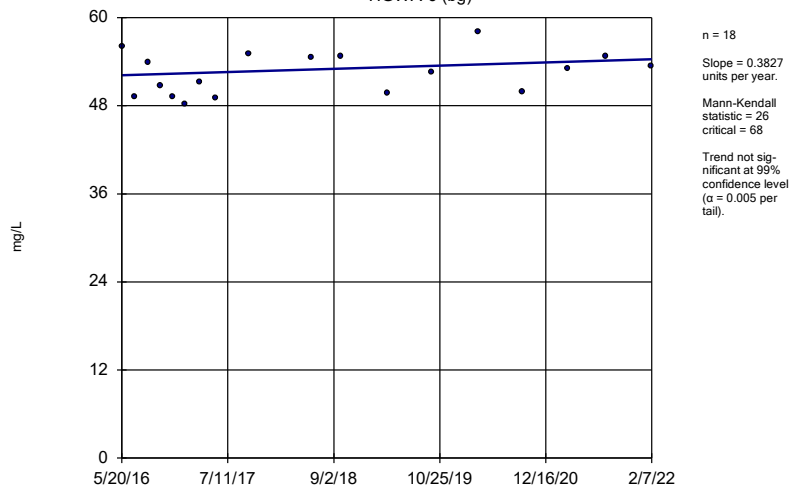
HGWA-5 (bg)



Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

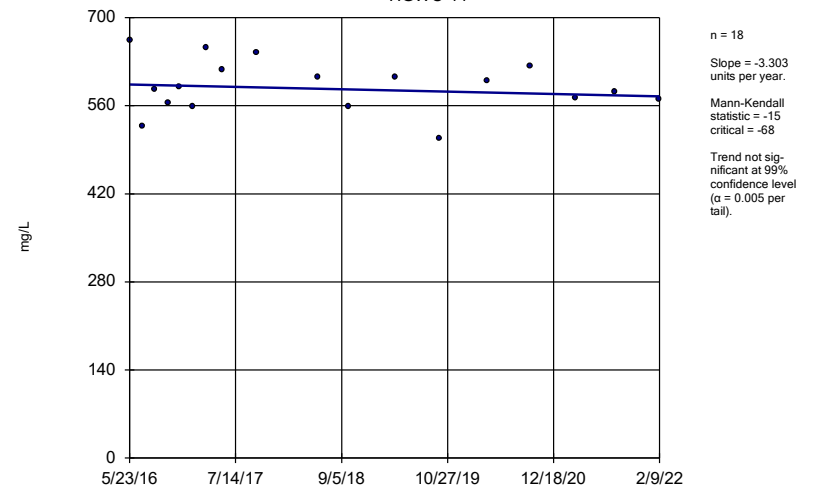
HGWA-6 (bg)



Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

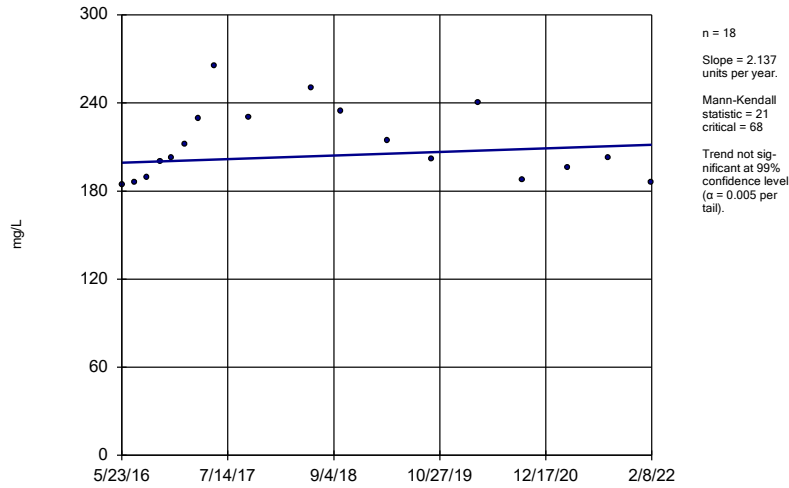
Sen's Slope Estimator

HGWC-14



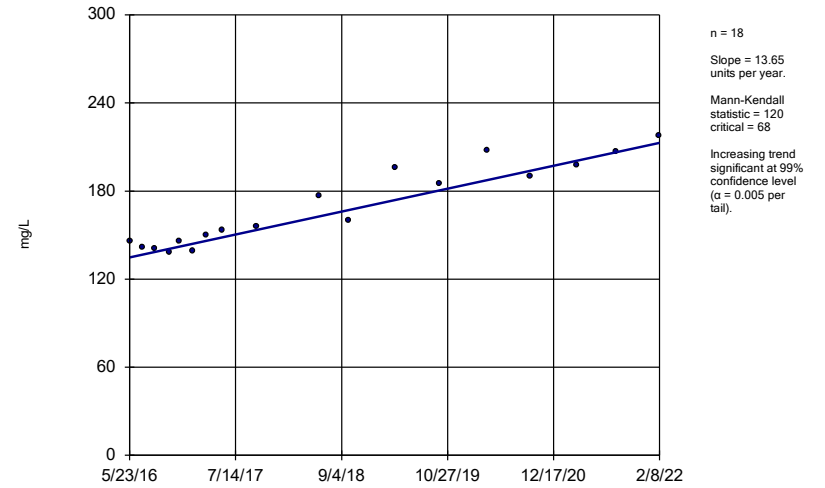
Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWC-15



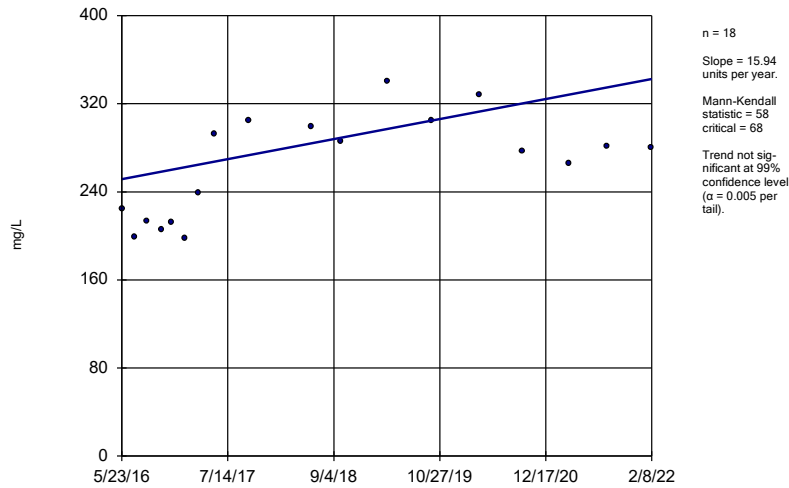
Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWC-16



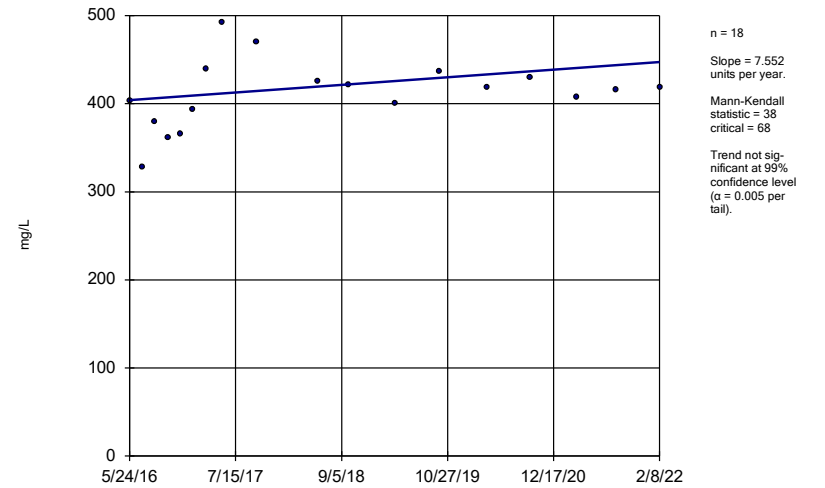
Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWC-17



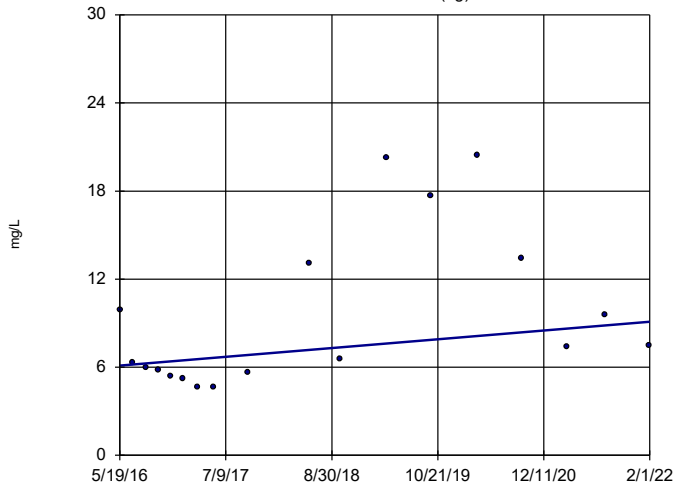
Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWC-18



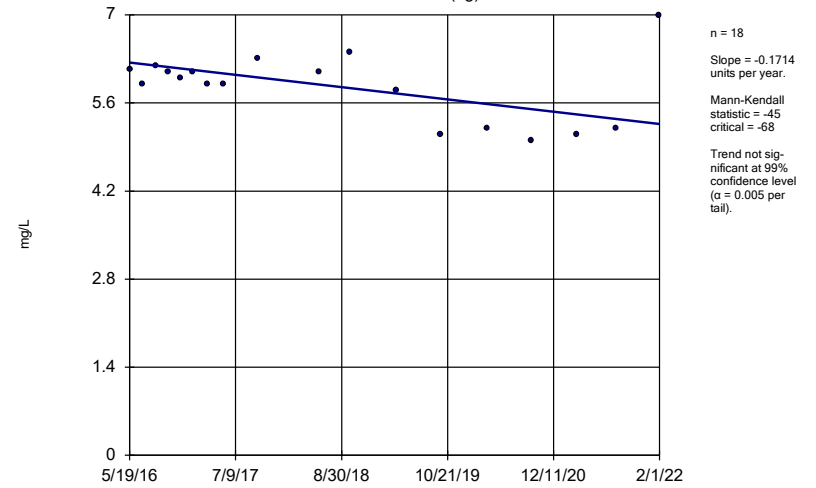
Constituent: Calcium Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWA-1 (bg)



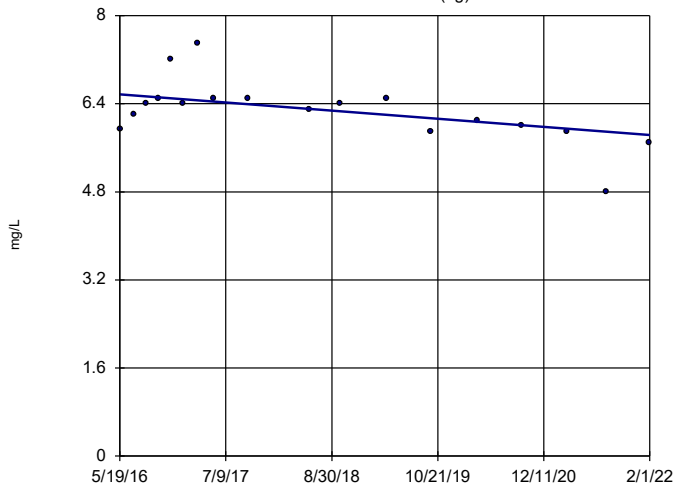
Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWA-2 (bg)



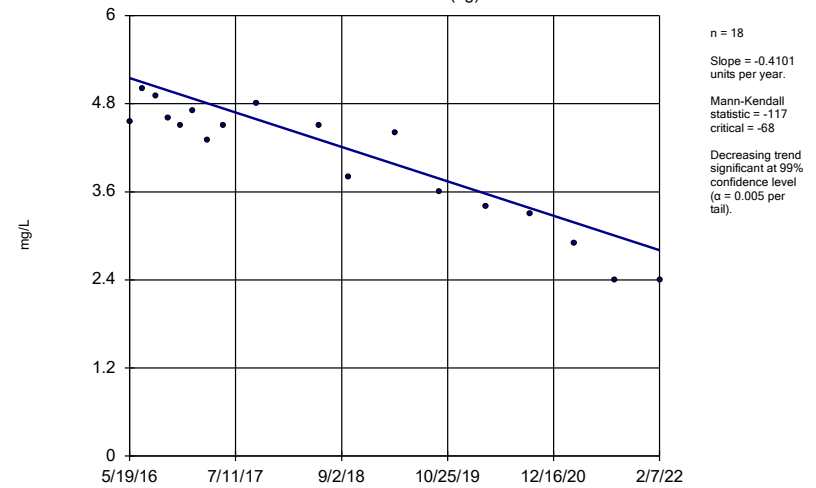
Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWA-3 (bg)



Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

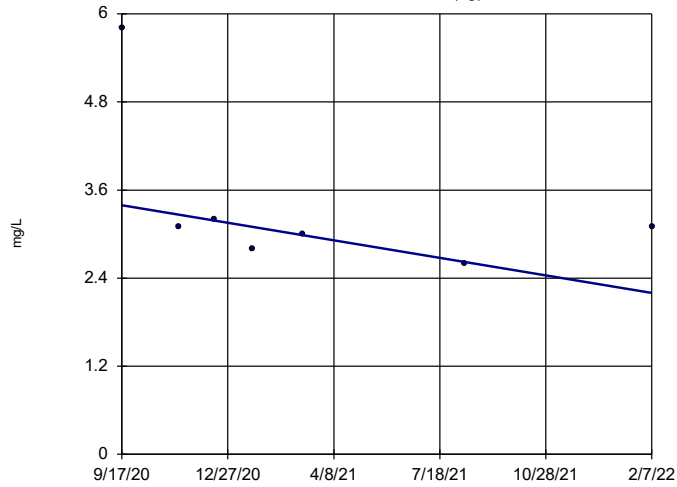
Sen's Slope Estimator HGWA-4 (bg)



Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

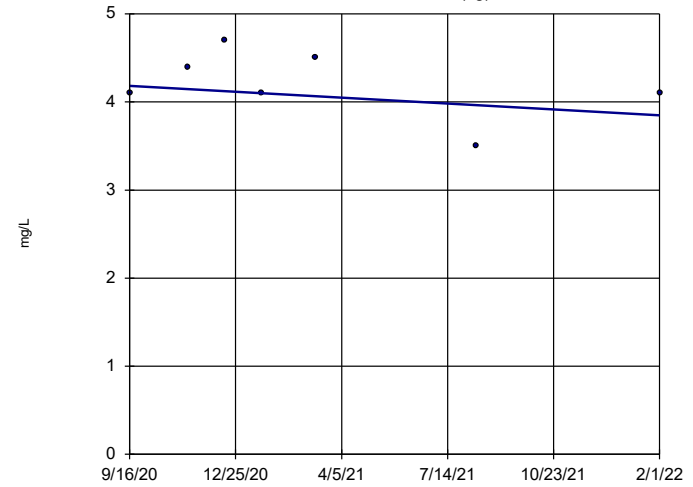


n = 7
 Slope = -0.8588 units per year.
 Mann-Kendall statistic = -10
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

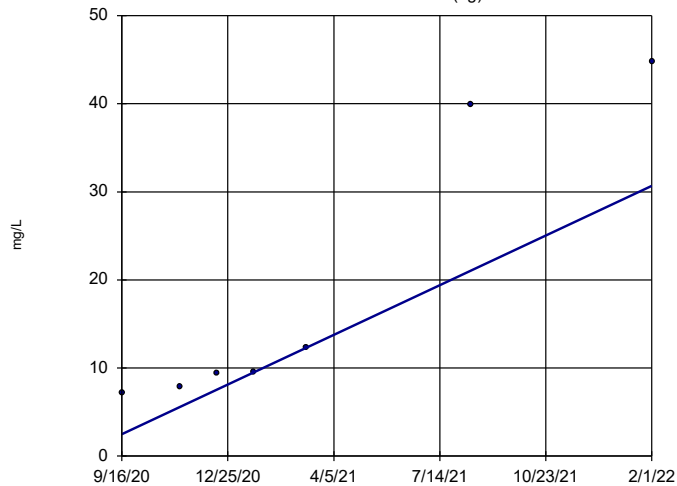


n = 7
 Slope = -0.2444 units per year.
 Mann-Kendall statistic = -4
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

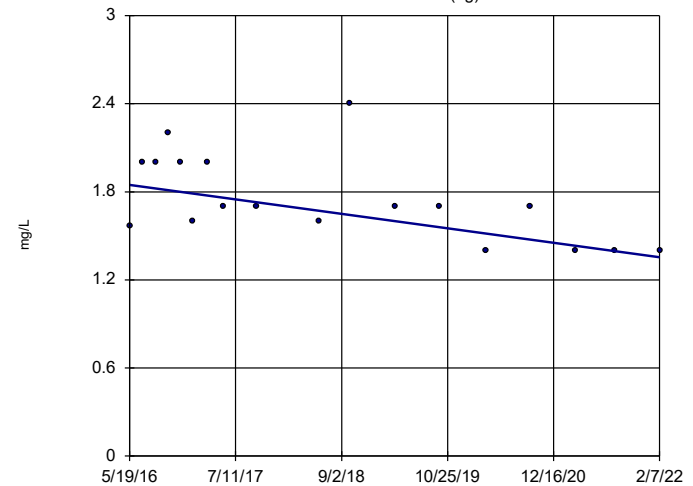


n = 7
 Slope = 20.44 units per year.
 Mann-Kendall statistic = 21
 critical = 18
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

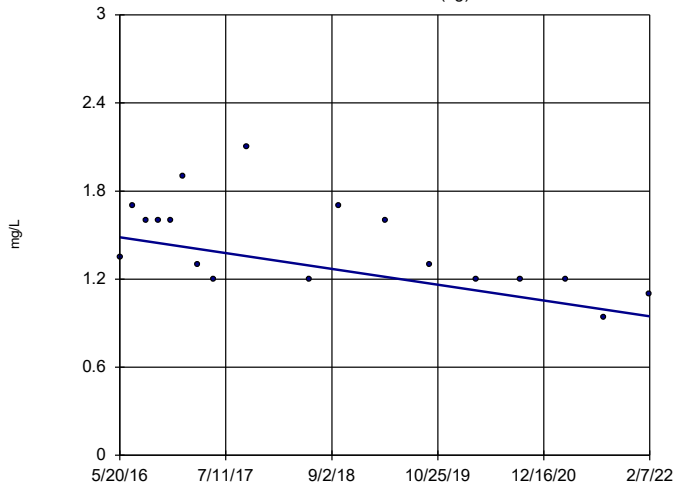
Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

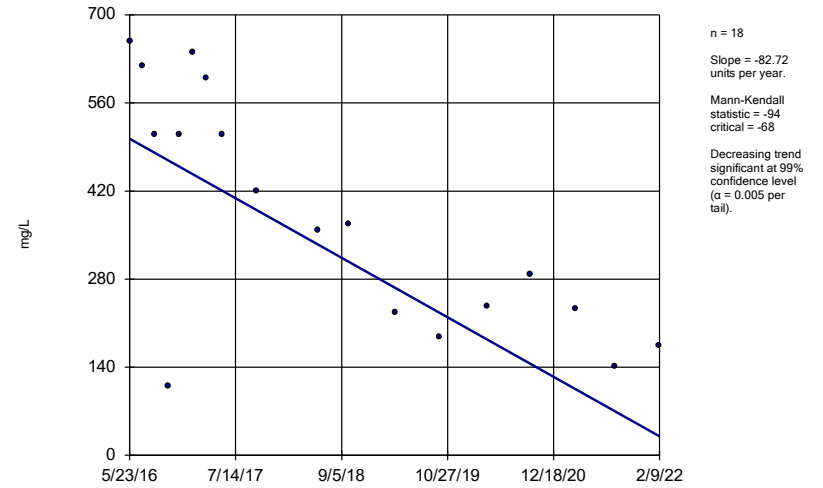


Sen's Slope Estimator HGWA-6 (bg)



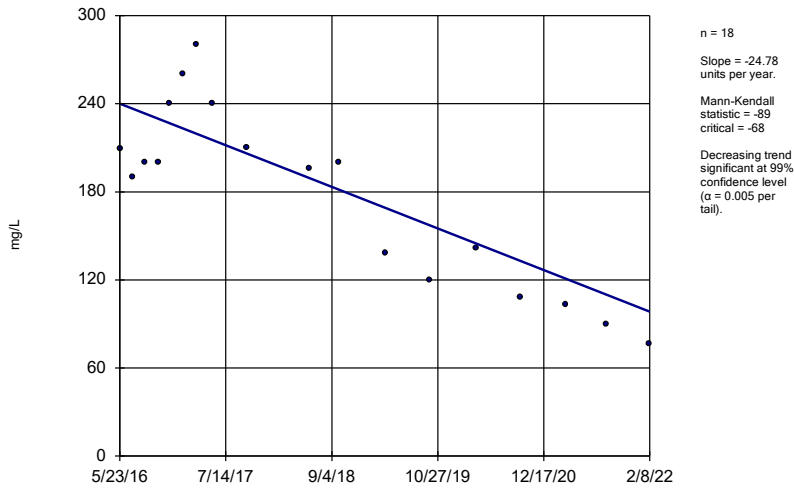
Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWC-14



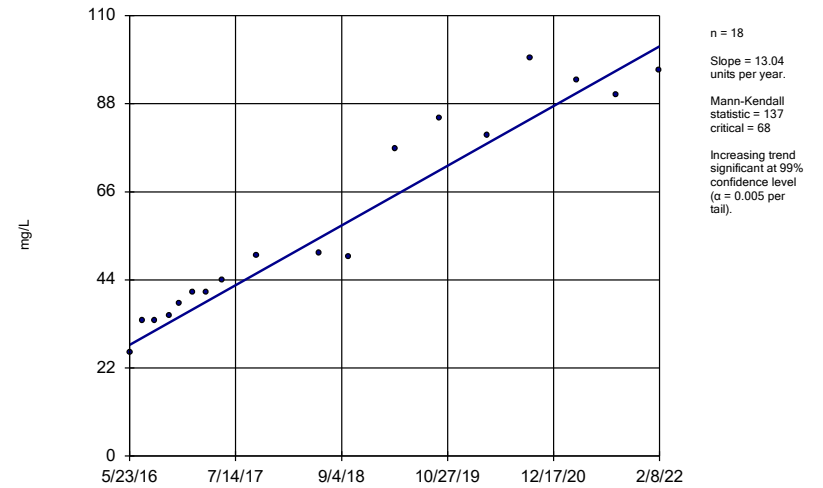
Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWC-15



Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

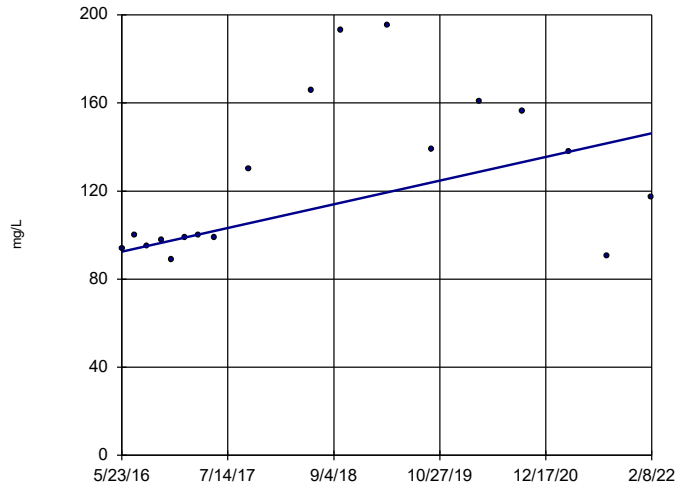
Sen's Slope Estimator HGWC-16



Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-17

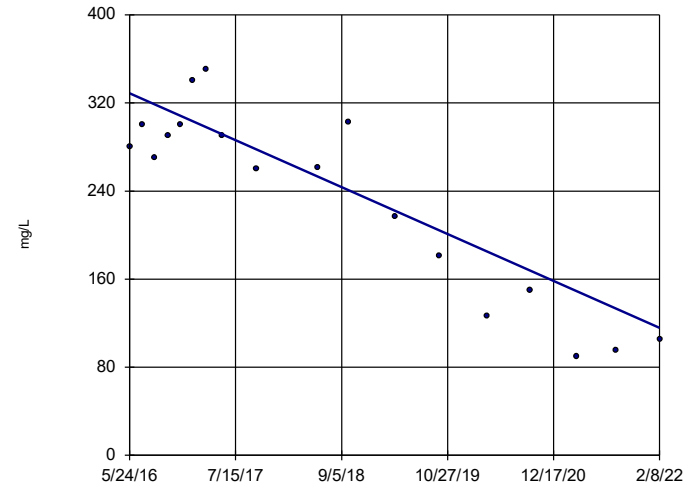


n = 18
 Slope = 9.415
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

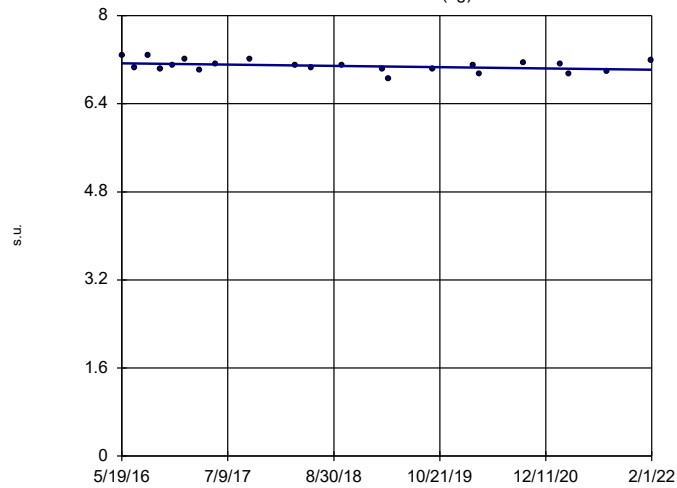


n = 18
 Slope = -37.28
 units per year.
 Mann-Kendall
 statistic = -87
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

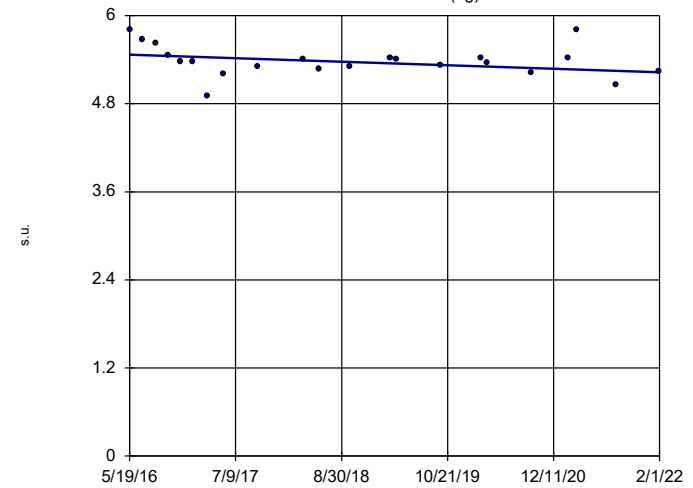


n = 22
 Slope = -0.02122
 units per year.
 Mann-Kendall
 statistic = -51
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

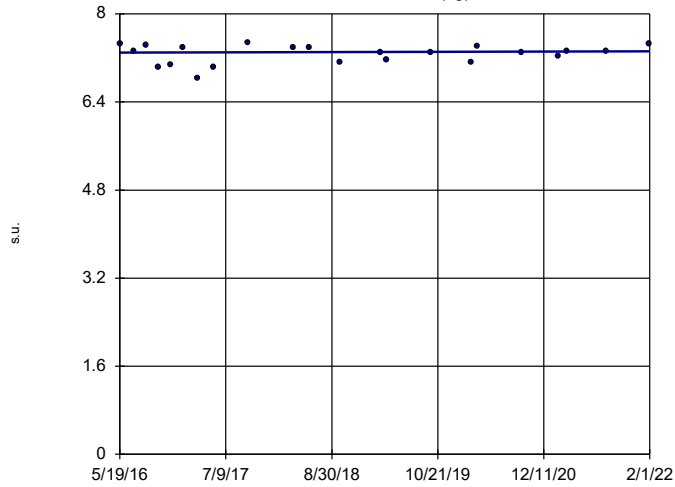


n = 22
 Slope = -0.04158
 units per year.
 Mann-Kendall
 statistic = -52
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

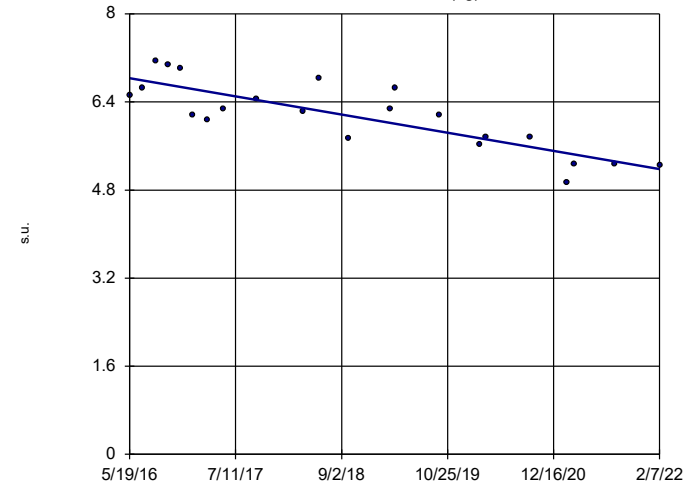


n = 22
 Slope = 0.003685 units per year.
 Mann-Kendall statistic = 8
 critical = 92
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

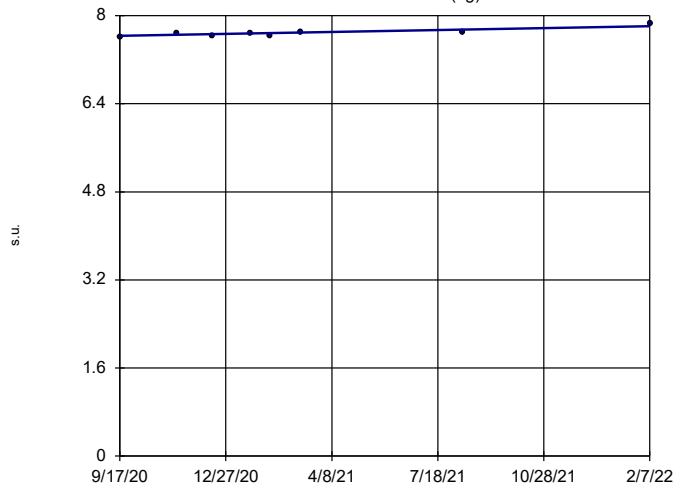


n = 22
 Slope = -0.2883 units per year.
 Mann-Kendall statistic = -144
 critical = -92
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

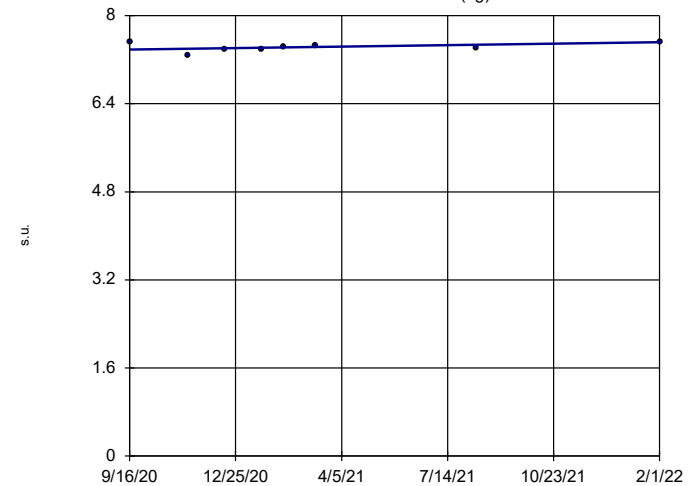


n = 8
 Slope = 0.1277 units per year.
 Mann-Kendall statistic = 19
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

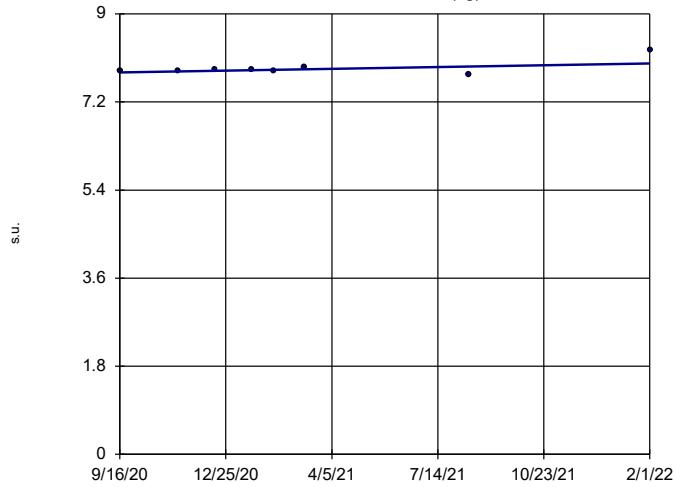


n = 8
 Slope = 0.09834 units per year.
 Mann-Kendall statistic = 10
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

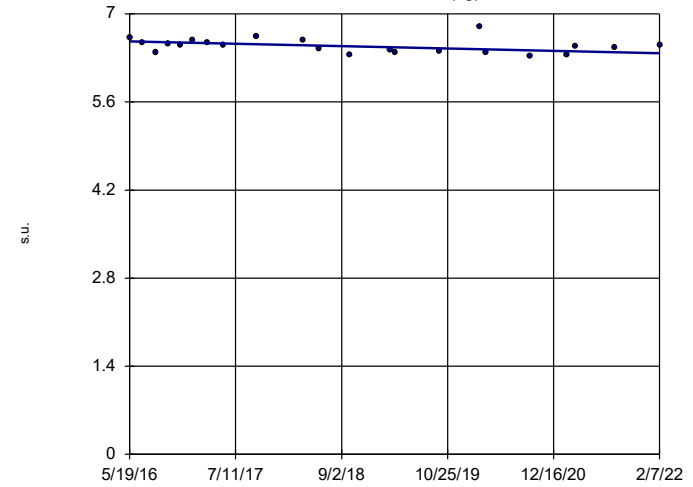


n = 8
 Slope = 0.1333
 units per year.
 Mann-Kendall
 statistic = 9
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

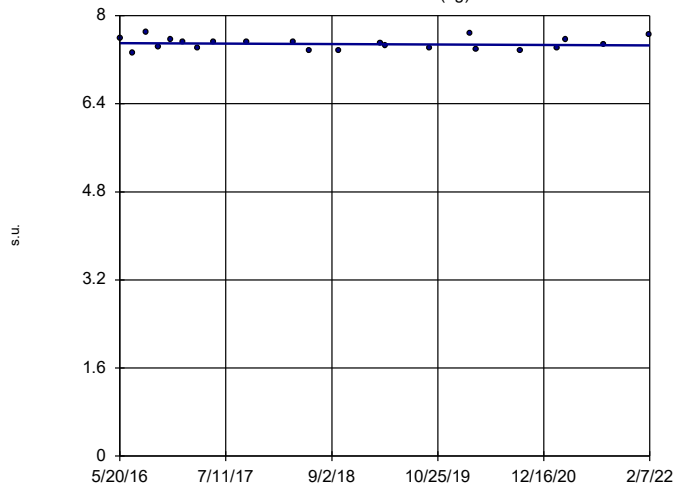


n = 22
 Slope = -0.03318
 units per year.
 Mann-Kendall
 statistic = -65
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

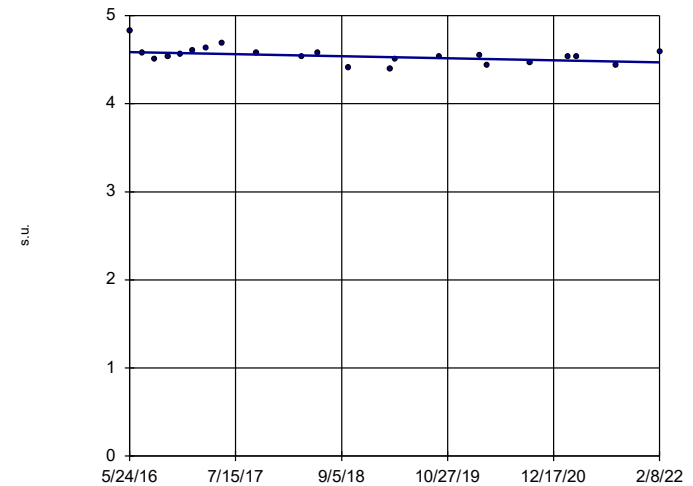


n = 22
 Slope = -0.007348
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

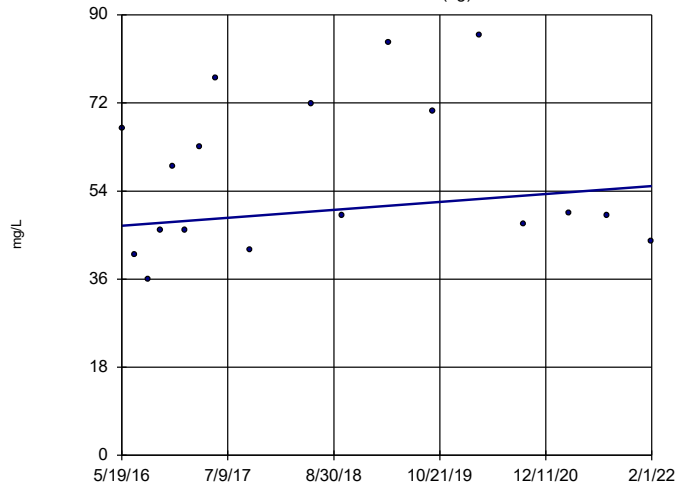


n = 22
 Slope = -0.02025
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

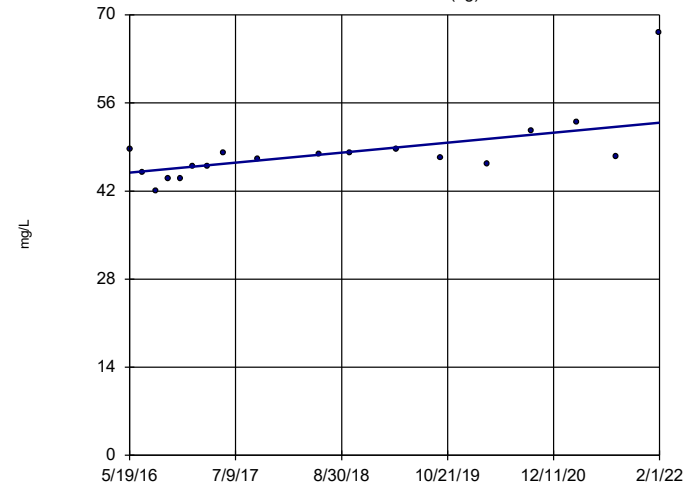


n = 18
 Slope = 1.419
 units per year.
 Mann-Kendall
 statistic = 24
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

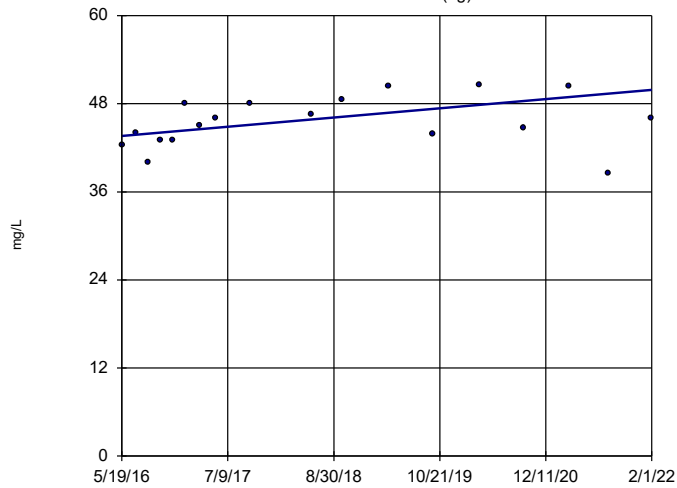


n = 18
 Slope = 1.393
 units per year.
 Mann-Kendall
 statistic = 83
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

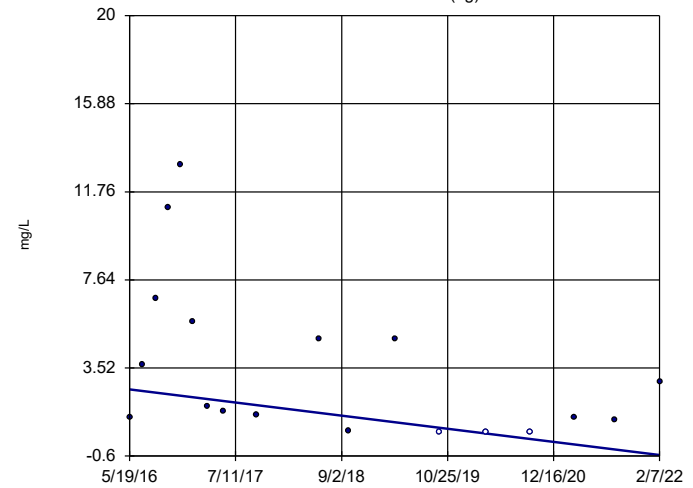


n = 18
 Slope = 1.099
 units per year.
 Mann-Kendall
 statistic = 53
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

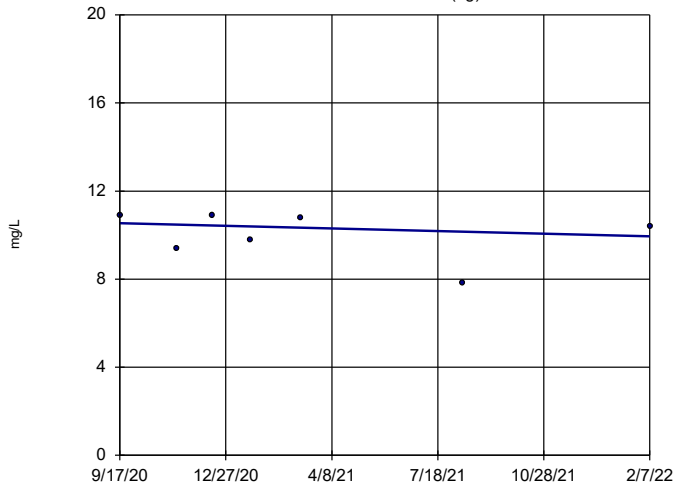


n = 18
 Slope = -0.5358
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

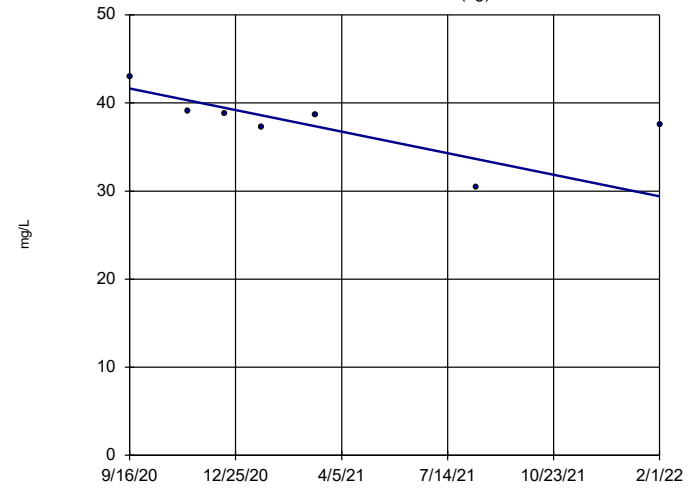


n = 7
 Slope = -0.4294 units per year.
 Mann-Kendall statistic = -6
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

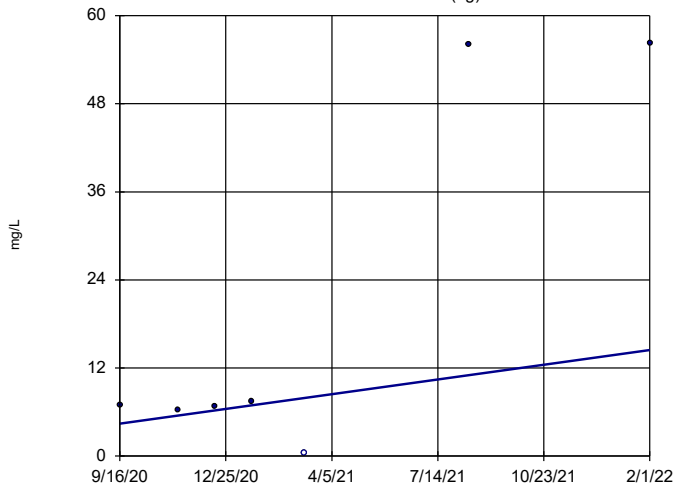


n = 7
 Slope = -8.864 units per year.
 Mann-Kendall statistic = -15
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

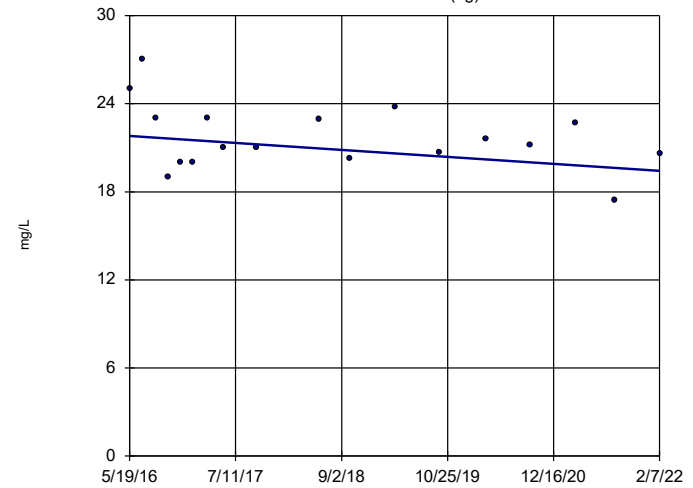


n = 7
 Slope = 7.3 units per year.
 Mann-Kendall statistic = 9
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

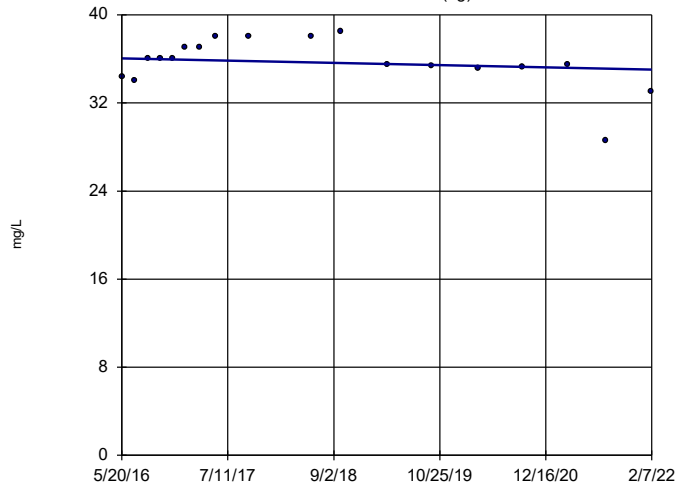


n = 18
 Slope = -0.4179 units per year.
 Mann-Kendall statistic = -28
 critical = -68
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

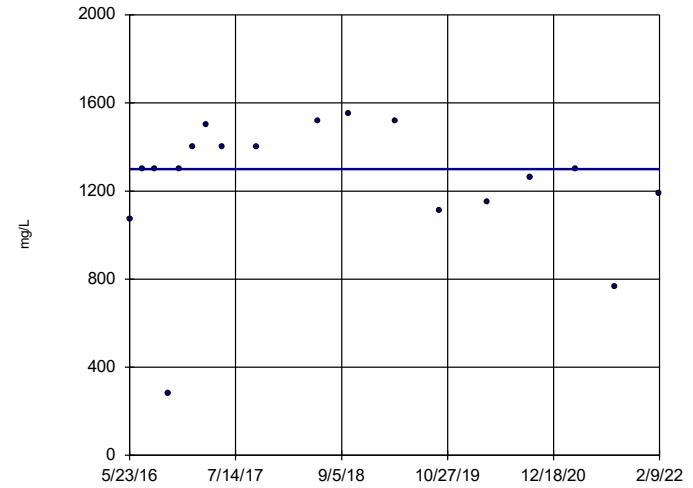


n = 18
 Slope = -0.1792
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

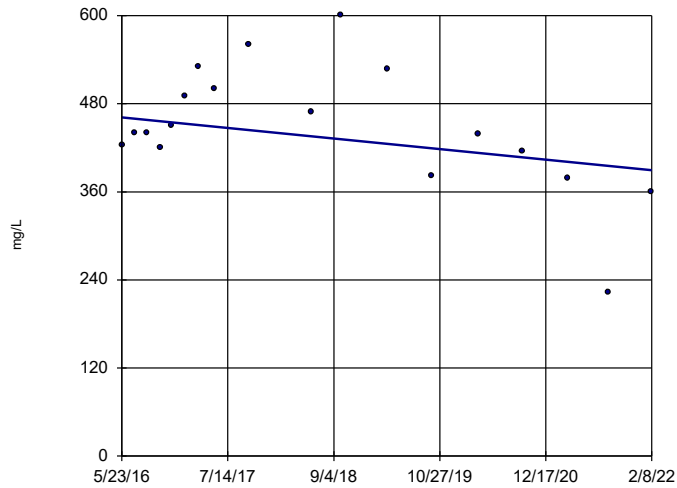


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15



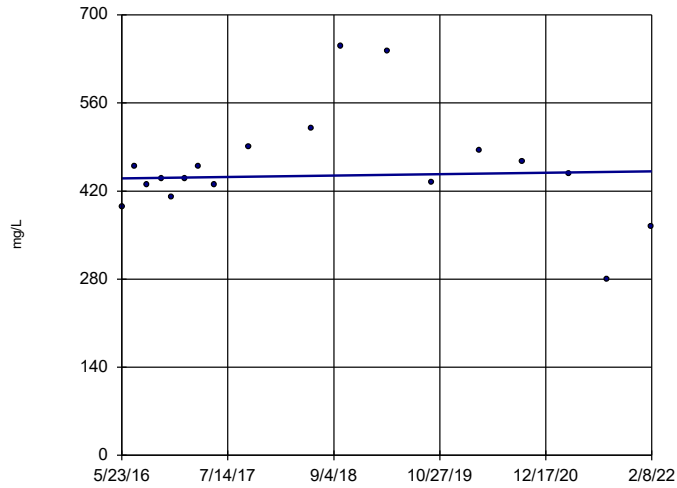
n = 18
 Slope = -12.58
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

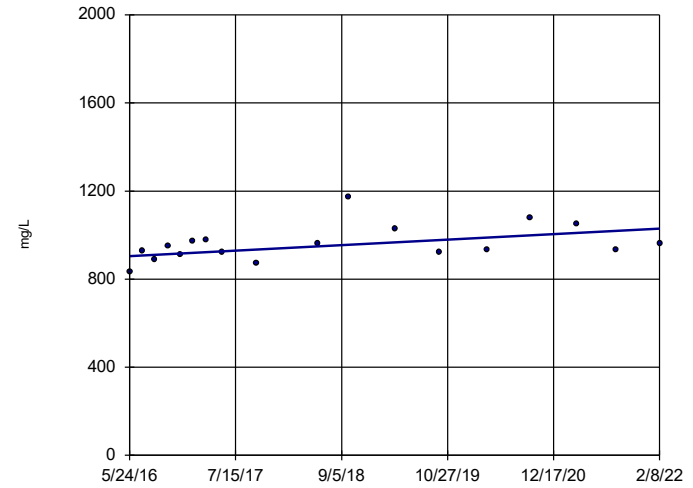
Sen's Slope Estimator HGWC-17



n = 18
Slope = 2.005
units per year.
Mann-Kendall
statistic = 14
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

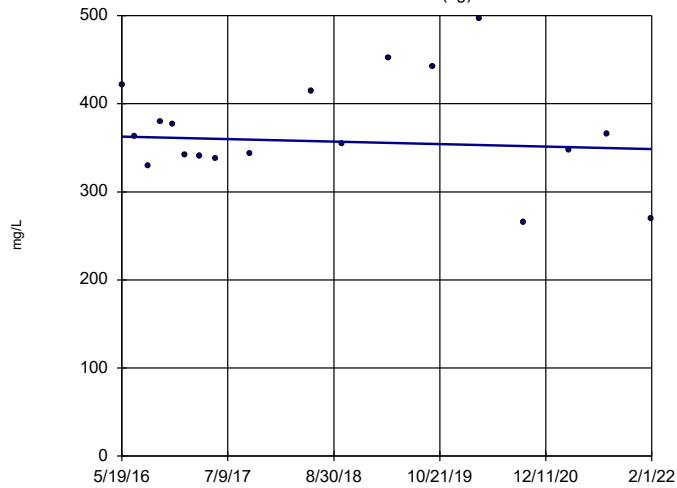
Sen's Slope Estimator HGWC-18



n = 18
Slope = 21.73
units per year.
Mann-Kendall
statistic = 55
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

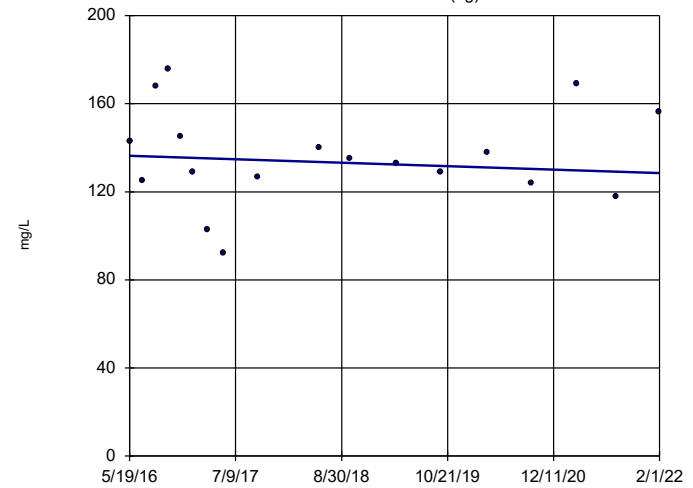
Sen's Slope Estimator HGWA-1 (bg)



n = 18
Slope = -2.458
units per year.
Mann-Kendall
statistic = -3
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator HGWA-2 (bg)

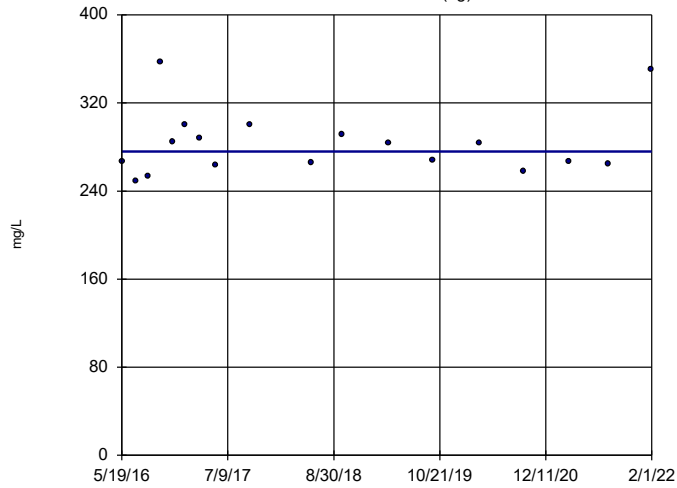


n = 18
Slope = -1.375
units per year.
Mann-Kendall
statistic = -12
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

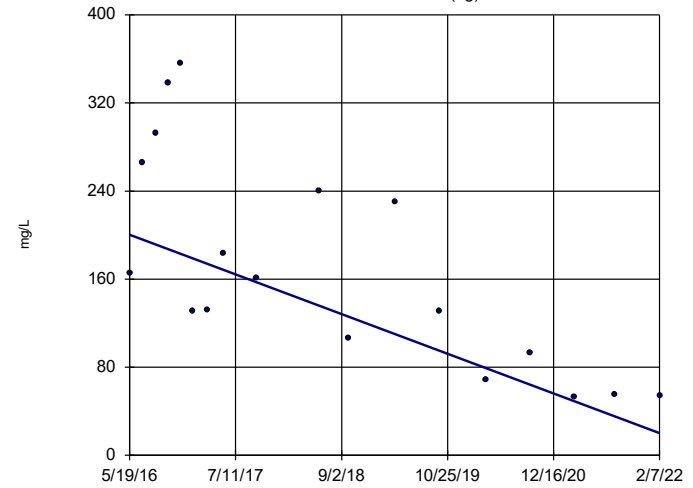
HGWA-3 (bg)



n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

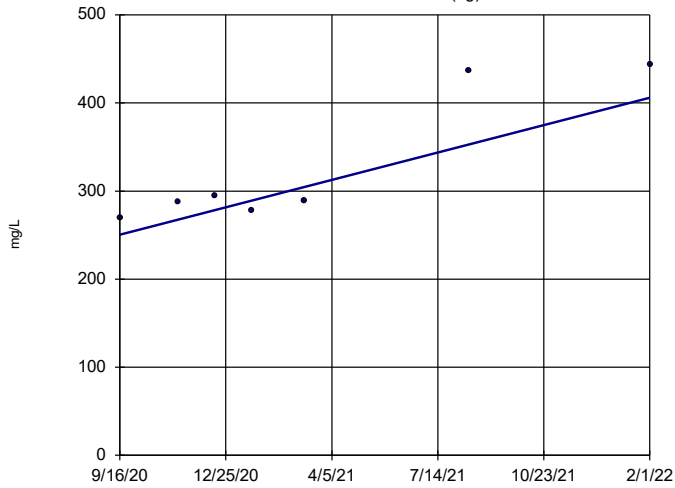
Sen's Slope Estimator

HGWA-4 (bg)



Sen's Slope Estimator

HGWA-44D (bg)

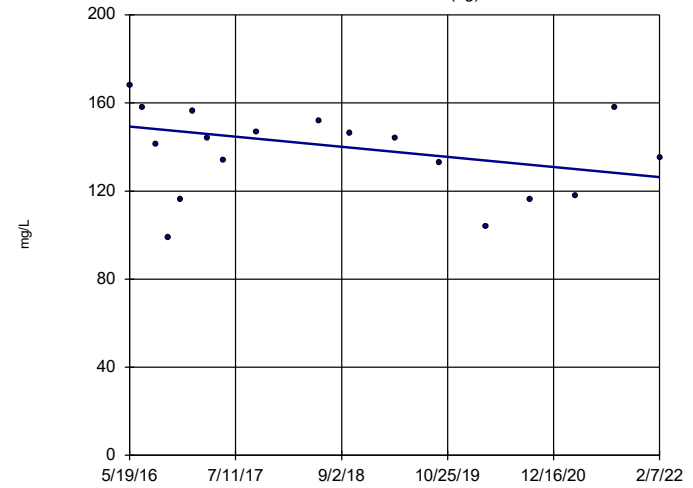


n = 7
 Slope = 112.8
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

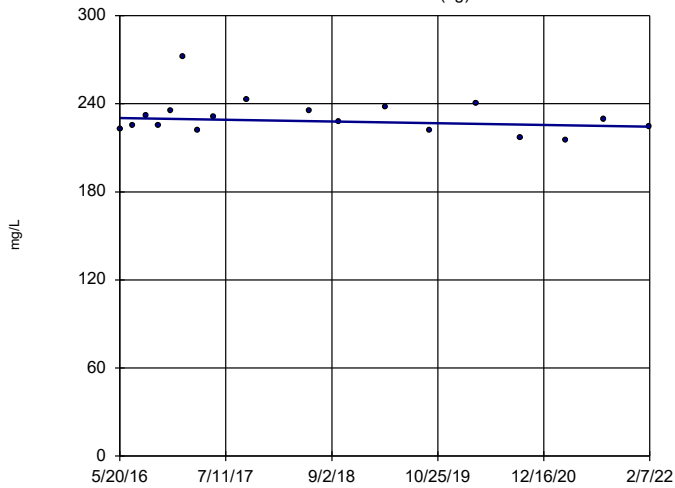


n = 18
 Slope = -4.011
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

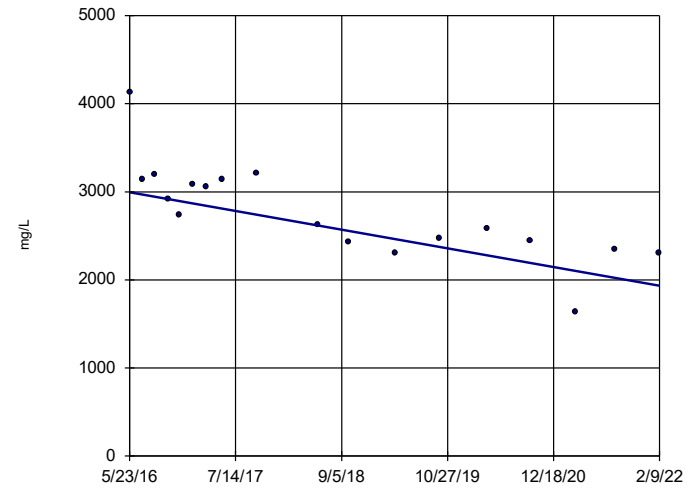


n = 18
 Slope = -1.024
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

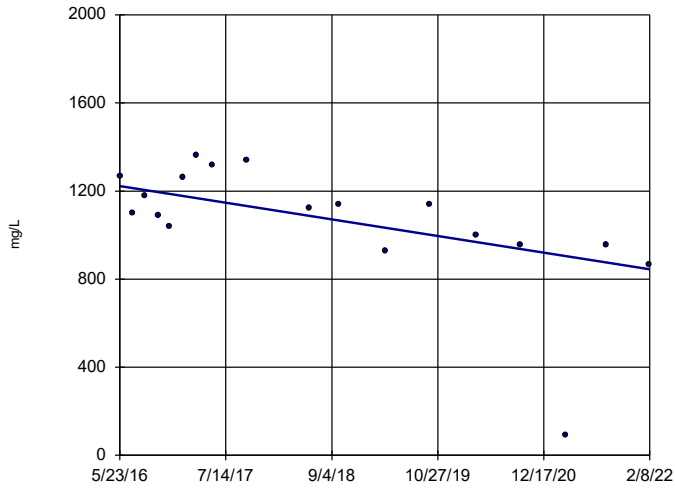
HGWC-14



n = 18
 Slope = -185.6
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

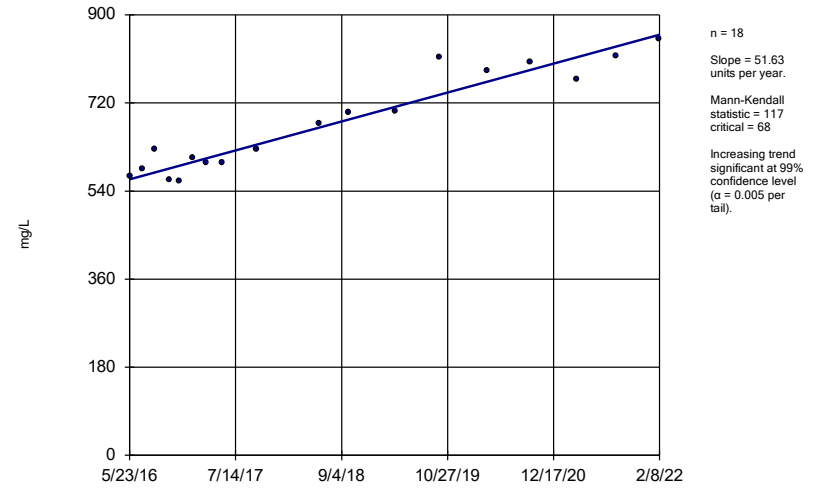
Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator
HGWC-15



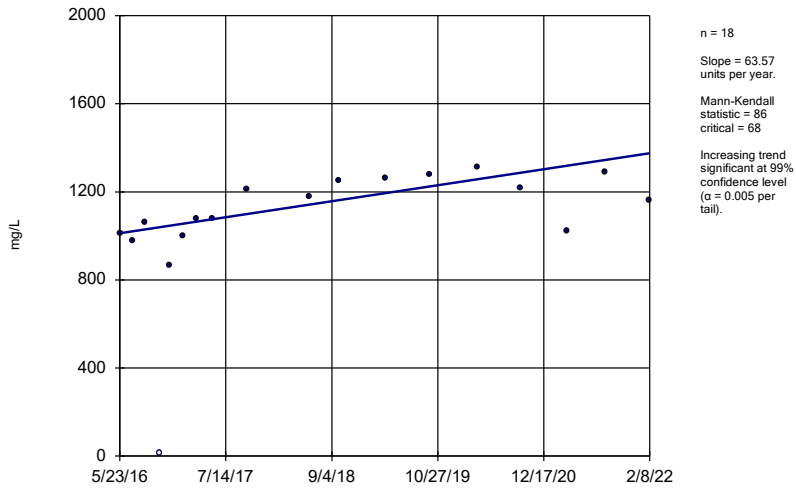
Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator
HGWC-16



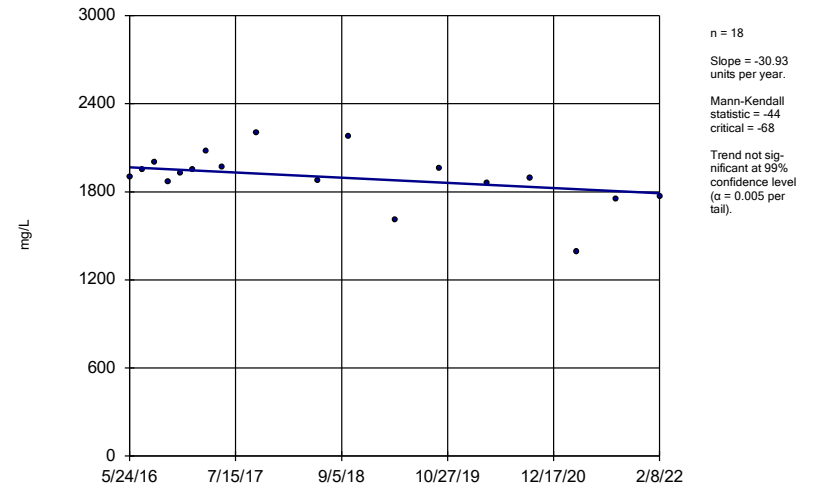
Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator
HGWC-17



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator
HGWC-18



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 6:07 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:36 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	117	n/a	n/a	80.34	n/a	n/a	0.002475	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	150	n/a	n/a	79.33	n/a	n/a	0.0004556	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	150	n/a	n/a	0	n/a	n/a	0.0004556	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	138	n/a	n/a	83.33	n/a	n/a	0.0008431	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	150	n/a	n/a	92.67	n/a	n/a	0.0004556	NP Inter(NDs)
Chromium (mg/L)	n/a	0.019	n/a	n/a	n/a	n/a	138	n/a	n/a	83.33	n/a	n/a	0.0008431	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	150	n/a	n/a	70	n/a	n/a	0.0004556	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.645	n/a	n/a	n/a	n/a	150	0.7613	0.279	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	n/a	156	n/a	n/a	34.62	n/a	n/a	0.0003349	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	138	n/a	n/a	71.74	n/a	n/a	0.0008431	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	n/a	150	n/a	n/a	18	n/a	n/a	0.0004556	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	96	n/a	n/a	91.67	n/a	n/a	0.007269	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	138	n/a	n/a	84.78	n/a	n/a	0.0008431	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	150	n/a	n/a	98.67	n/a	n/a	0.0004556	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	150	n/a	n/a	98.67	n/a	n/a	0.0004556	NP Inter(NDs)

FIGURE G.

PLANT HAMMOND AP-2 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		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0019	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.65	5
Fluoride, Total (mg/L)	4		0.96	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.048	0.048
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	HGWC-18	0.187	0.1605	0.038	Yes	21	0.1738	0.02406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05716	0.04884	0.038	Yes	8	0.053	0.003928	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09914	0.08253	0.038	Yes	6	0.09083	0.006047	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-14	0.003	0.00043	0.006	No	15	0.002649	0.0009275	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-15	0.003	0.002	0.006	No	15	0.002933	0.0002582	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-18	0.003	0.0008	0.006	No	15	0.002853	0.000568	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-22	0.003	0.0016	0.006	No	6	0.002767	0.0005715	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	MW-33	0.003	0.00046	0.006	No	4	0.002365	0.00127	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	MW-35	0.003	0.00041	0.006	No	4	0.002328	0.001279	50	None	No	0.0625	NP (normality)
Antimony (mg/L)	MW-37D	0.003	0.00079	0.006	No	4	0.002448	0.001105	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	HGWC-14	0.005929	0.004126	0.01	No	21	0.005028	0.001634	14.29	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-15	0.005	0.0008	0.01	No	21	0.00435	0.001636	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-16	0.005	0.0012	0.01	No	21	0.004186	0.001732	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-17	0.005	0.0012	0.01	No	21	0.00386	0.001856	71.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-18	0.006854	0.004826	0.01	No	21	0.00584	0.001838	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-21D	0.005	0.001	0.01	No	11	0.003863	0.001965	72.73	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-22	0.005	0.005	0.01	No	10	0.004545	0.001439	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-23D	0.005	0.001	0.01	No	10	0.004182	0.001725	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-33	0.0078	0.004057	0.01	No	7	0.005929	0.001576	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-34D	0.007178	-0.001178	0.01	No	4	0.003	0.00184	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-35	0.006646	0.003688	0.01	No	6	0.0054	0.001018	16.67	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-37D	0.002705	0.0009647	0.01	No	6	0.003392	0.001821	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-14	0.0228	0.019	2	No	21	0.02429	0.01748	4.762	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-15	0.02752	0.01805	2	No	21	0.02279	0.008587	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-16	0.1118	0.1002	2	No	21	0.106	0.01056	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-17	0.02601	0.02326	2	No	21	0.02464	0.00249	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-18	0.0336	0.029	2	No	21	0.03325	0.01577	4.762	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21D	0.07047	0.04299	2	No	11	0.05673	0.01649	0	None	No	0.01	Param.
Barium (mg/L)	MW-22	0.03312	0.01628	2	No	10	0.0247	0.00944	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.06847	0.05213	2	No	10	0.0603	0.009154	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.02818	0.02154	2	No	7	0.02486	0.002795	0	None	No	0.01	Param.
Barium (mg/L)	MW-34D	0.04782	0.03068	2	No	4	0.03925	0.003775	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.03155	0.02279	2	No	6	0.02717	0.003189	0	None	No	0.01	Param.
Barium (mg/L)	MW-37D	0.1762	0.09717	2	No	6	0.1367	0.02875	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-14	0.0005254	0.0004325	0.004	No	19	0.0004789	0.00007937	10.53	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-17	0.0005	0.000067	0.004	No	19	0.0004534	0.0001396	89.47	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-18	0.003424	0.002783	0.004	No	19	0.003036	0.0007391	5.263	None	x^2	0.01	Param.
Beryllium (mg/L)	MW-22	0.0005	0.000062	0.004	No	10	0.000284	0.0002279	50	None	No	0.011	NP (normality)
Beryllium (mg/L)	MW-33	0.001095	0.0008846	0.004	No	7	0.00099	0.00008869	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-34D	0.000204	0.00001101	0.004	No	4	0.0003038	0.0002293	50	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MW-35	0.000741	0.000339	0.004	No	6	0.00054	0.0001463	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-37D	0.0005	0.00012	0.004	No	6	0.0004367	0.0001551	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	HGWC-14	0.0005	0.0001	0.005	No	21	0.0003032	0.0001944	47.62	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-15	0.002181	0.001494	0.005	No	21	0.001872	0.0006855	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	HGWC-17	0.0005	0.00007	0.005	No	21	0.0004795	0.00009383	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-18	0.002291	0.001648	0.005	No	21	0.00197	0.000583	4.762	None	No	0.01	Param.
Cadmium (mg/L)	MW-22	0.002134	0.001532	0.005	No	10	0.001726	0.0005707	0	None	x^4	0.01	Param.
Cadmium (mg/L)	MW-23D	0.0005615	0.0002617	0.005	No	10	0.000448	0.0001499	50	Kaplan-Meier	x^2	0.01	Param.
Cadmium (mg/L)	MW-33	0.0002151	0.000142	0.005	No	7	0.0001786	0.00003078	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-34D	0.0008342	-0.0001292	0.005	No	4	0.0004875	0.0002006	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MW-35	0.002001	0.0006755	0.005	No	6	0.001338	0.0004825	0	None	No	0.01	Param.
Chromium (mg/L)	HGWC-14	0.005	0.00066	0.1	No	19	0.004531	0.001407	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-15	0.005	0.0012	0.1	No	19	0.004322	0.001616	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-16	0.005	0.0021	0.1	No	19	0.004379	0.001503	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-17	0.005	0.0018	0.1	No	19	0.004381	0.001485	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-18	0.005	0.00063	0.1	No	19	0.004291	0.001683	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-21D	0.005	0.00074	0.1	No	11	0.00421	0.001758	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-22	0.005	0.00075	0.1	No	10	0.004115	0.001868	80	None	No	0.011	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-23D	0.005	0.00086	0.1	No	10	0.004169	0.001752	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-33	0.005	0.00069	0.1	No	7	0.004384	0.001629	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-34D	0.0059	0.005	0.1	No	4	0.005225	0.00045	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	MW-35	0.005	0.00079	0.1	No	6	0.003603	0.002164	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-37D	0.005	0.0014	0.1	No	6	0.004367	0.001456	66.67	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	HGWC-14	0.03033	0.0244	0.038	No	21	0.02679	0.006468	4.762	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-15	0.04475	0.02675	0.038	No	21	0.03575	0.01632	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-16	0.005	0.00037	0.038	No	21	0.004555	0.001406	90.48	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-17	0.01601	0.01342	0.038	No	21	0.01453	0.002742	0	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-18	0.187	0.1605	0.038	Yes	21	0.1738	0.02406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-21D	0.005	0.005	0.038	No	11	0.004576	0.001405	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-22	0.03809	0.02491	0.038	No	10	0.0315	0.007382	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-23D	0.001172	0.000954	0.038	No	10	0.001063	0.0001222	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05716	0.04884	0.038	Yes	8	0.053	0.003928	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-34D	0.01376	0.002438	0.038	No	4	0.0081	0.002494	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09914	0.08253	0.038	Yes	6	0.09083	0.006047	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-37D	0.005	0.00048	0.038	No	6	0.003663	0.002096	66.67	None	No	0.0155	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	HGWC-14	1.595	1.083	5	No	21	1.339	0.4637	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-15	0.9002	0.4436	5	No	21	0.6719	0.4139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-16	0.9616	0.5157	5	No	21	0.7387	0.4041	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-17	1.027	0.6789	5	No	21	0.853	0.3157	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-18	2.219	1.641	5	No	21	1.93	0.5232	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21D	1.121	0.4539	5	No	11	0.799	0.4529	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.148	0.3216	5	No	10	0.7348	0.4631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	1.113	0.6168	5	No	10	0.865	0.2782	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-33	2.631	0.8717	5	No	7	1.751	0.7406	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-34D	1.755	-0.2986	5	No	4	0.7283	0.4523	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-35	3.35	0.3043	5	No	6	1.827	1.109	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-37D	1.717	-0.009304	5	No	6	0.8538	0.6283	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-14	0.2023	0.07774	4	No	22	0.176	0.1573	22.73	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-15	0.17	0.09	4	No	22	0.1415	0.1193	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-16	0.23	0.059	4	No	22	0.1567	0.1176	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	HGWC-17	0.16	0.062	4	No	22	0.1641	0.2105	31.82	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-18	0.6327	0.3991	4	No	22	0.5159	0.2175	4.545	None	No	0.01	Param.
Fluoride (mg/L)	MW-21D	0.1	0.1	4	No	11	0.1	4.5e-10	90.91	None	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-22	0.13	0.1	4	No	10	0.121	0.05666	80	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-23D	0.14	0.1	4	No	10	0.11	0.0216	80	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-33	0.29	0.1315	4	No	8	0.2088	0.08951	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-34D	0.09507	0.0376	4	No	4	0.07475	0.02106	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-35	0.0912	0.0468	4	No	6	0.07417	0.02053	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-37D	0.093	0.043	4	No	6	0.068	0.0182	0	None	No	0.01	Param.
Lead (mg/L)	HGWC-14	0.001704	0.001392	0.015	No	19	0.001548	0.0002664	5.263	None	No	0.01	Param.
Lead (mg/L)	HGWC-15	0.001	0.0002	0.015	No	19	0.0008118	0.0003753	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-16	0.001	0.000094	0.015	No	19	0.0005802	0.0004558	52.63	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-17	0.001	0.000088	0.015	No	19	0.0006213	0.0004568	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-18	0.001431	0.001157	0.015	No	19	0.001294	0.0002339	5.263	None	No	0.01	Param.
Lead (mg/L)	MW-21D	0.001	0.000048	0.015	No	11	0.0007116	0.000433	63.64	None	No	0.006	NP (NDs)
Lead (mg/L)	MW-22	0.001	0.000094	0.015	No	10	0.000723	0.0004463	70	None	No	0.011	NP (NDs)
Lead (mg/L)	MW-23D	0.001	0.00016	0.015	No	10	0.0008211	0.000378	80	None	No	0.011	NP (NDs)
Lead (mg/L)	MW-33	0.001793	0.001514	0.015	No	7	0.001657	0.0001272	0	None	x^3	0.01	Param.
Lead (mg/L)	MW-34D	0.001	0.00087	0.015	No	4	0.0009675	0.000065	75	None	No	0.0625	NP (NDs)
Lead (mg/L)	MW-35	0.0009972	0.0001828	0.015	No	6	0.0007267	0.0003393	33.33	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	MW-37D	0.001254	-0.000294	0.015	No	6	0.000862	0.000564	50	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	HGWC-15	0.00947	0.002331	0.048	No	21	0.01029	0.009755	28.57	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	HGWC-16	0.0042	0.0029	0.048	No	21	0.004043	0.002602	4.762	None	No	0.01	NP (normality)

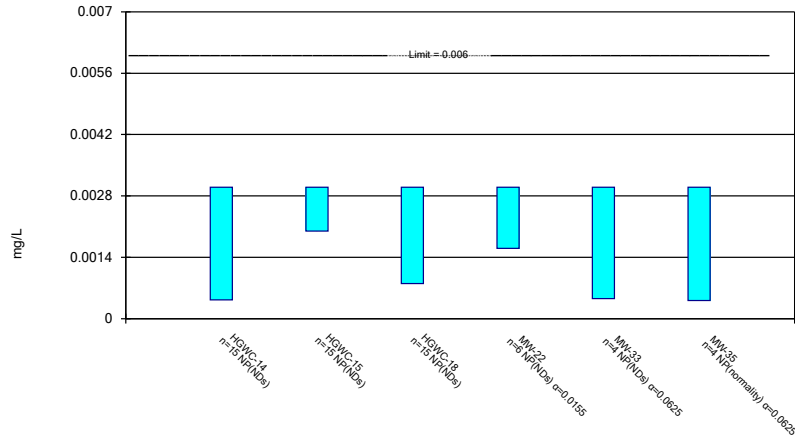
Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	HGWC-17	0.015	0.0011	0.048	No	21	0.007745	0.00709	47.62	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-18	0.01439	0.01219	0.048	No	21	0.01329	0.001993	0	None	No	0.01	Param.
Lithium (mg/L)	MW-21D	0.02521	0.02133	0.048	No	11	0.02327	0.002328	0	None	No	0.01	Param.
Lithium (mg/L)	MW-22	0.0015	0.0011	0.048	No	10	0.00131	0.0002726	0	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-23D	0.002642	0.002158	0.048	No	10	0.0024	0.0002708	0	None	No	0.01	Param.
Lithium (mg/L)	MW-33	0.001162	0.0008952	0.048	No	7	0.001029	0.0001123	0	None	No	0.01	Param.
Lithium (mg/L)	MW-34D	0.003048	0.0001522	0.048	No	4	0.0016	0.0006377	0	None	No	0.01	Param.
Lithium (mg/L)	MW-35	0.004694	0.003473	0.048	No	6	0.004083	0.0004446	0	None	No	0.01	Param.
Lithium (mg/L)	MW-37D	0.03755	0.02812	0.048	No	6	0.03283	0.00343	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-18	0.0002	0.00006	0.002	No	13	0.00015	0.00006683	61.54	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-15	0.01	0.0007	0.1	No	19	0.009511	0.002134	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-21D	0.03102	0.01654	0.1	No	11	0.02427	0.0101	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-22	0.01	0.01	0.1	No	10	0.009013	0.003121	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.005029	0.002108	0.1	No	10	0.00368	0.002326	10	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-37D	0.0228	0.005969	0.1	No	6	0.01438	0.006125	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-14	0.01256	0.006717	0.05	No	21	0.009639	0.005295	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-15	0.005	0.0041	0.05	No	21	0.004386	0.001446	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-16	0.005	0.000089	0.05	No	21	0.004766	0.001072	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-17	0.005	0.0023	0.05	No	21	0.004466	0.001385	85.71	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-18	0.03229	0.01667	0.05	No	21	0.02448	0.01416	4.762	None	No	0.01	Param.
Selenium (mg/L)	MW-22	0.005	0.005	0.05	No	10	0.0047	0.0009487	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	MW-33	0.03151	0.00655	0.05	No	7	0.01811	0.01199	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	MW-34D	0.005	0.0025	0.05	No	4	0.004375	0.00125	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	MW-35	0.02994	0.006285	0.05	No	6	0.01655	0.01042	0	None	x^(1/3)	0.01	Param.
Thallium (mg/L)	HGWC-14	0.0003	0.00027	0.002	No	21	0.0002936	0.00003129	0	None	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-17	0.001	0.00012	0.002	No	21	0.0007048	0.0004279	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-18	0.001	0.00016	0.002	No	21	0.0005252	0.0004218	42.86	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-33	0.0003547	0.0002389	0.002	No	7	0.0002957	0.00005094	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	MW-34D	0.001	0.00015	0.002	No	4	0.0007875	0.000425	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	MW-35	0.001	0.00013	0.002	No	6	0.000855	0.0003552	83.33	None	No	0.0155	NP (NDs)

Non-Parametric Confidence Interval

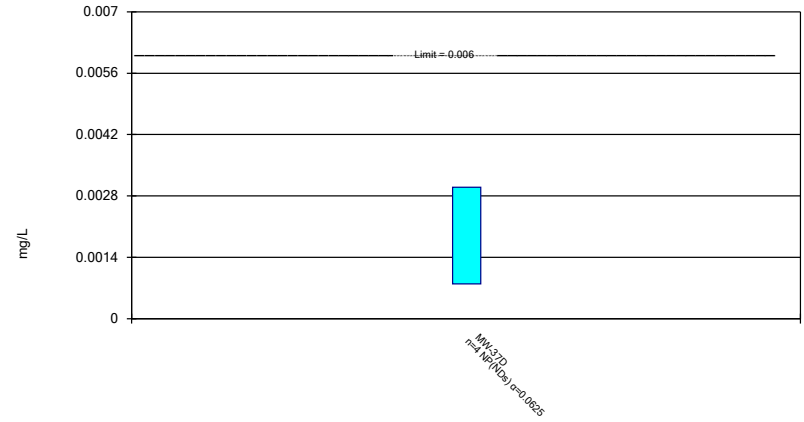
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

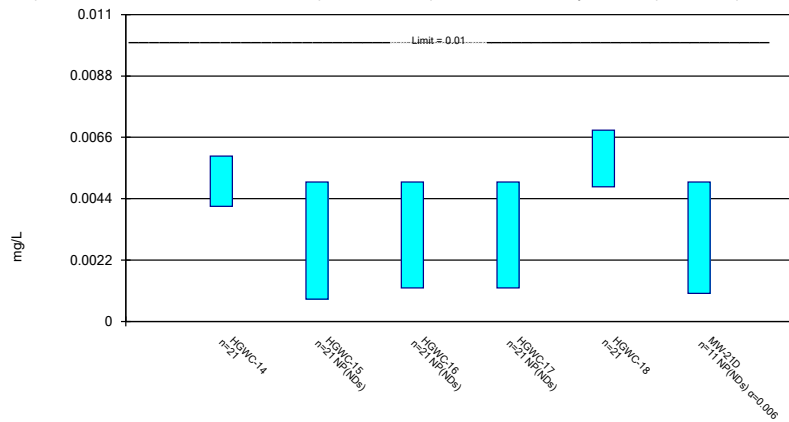
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Constituent: Antimony Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

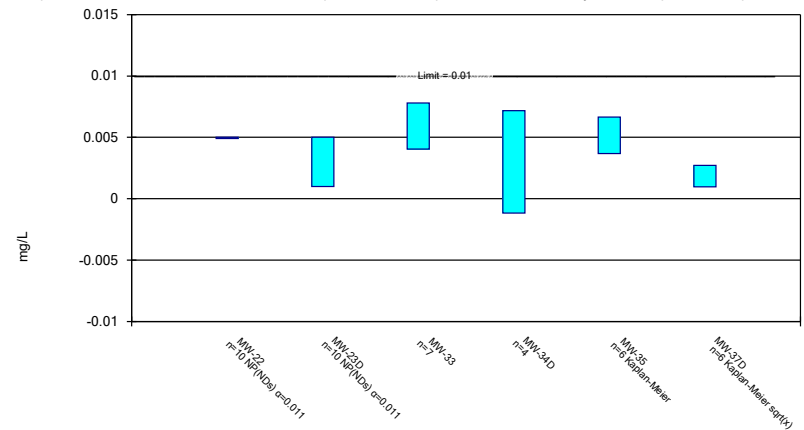
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

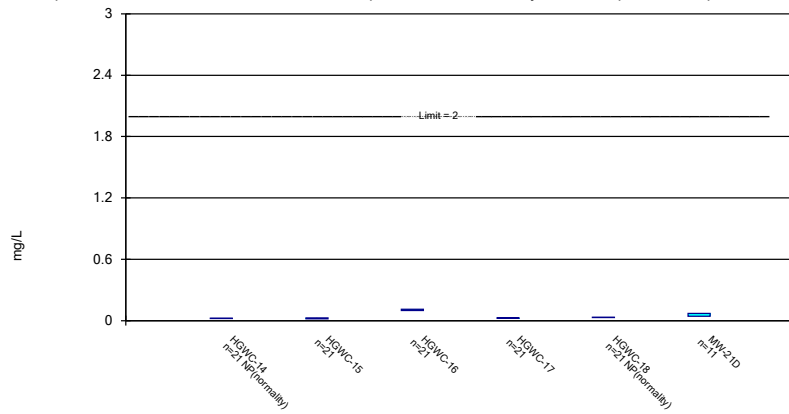
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Constituent: Arsenic Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

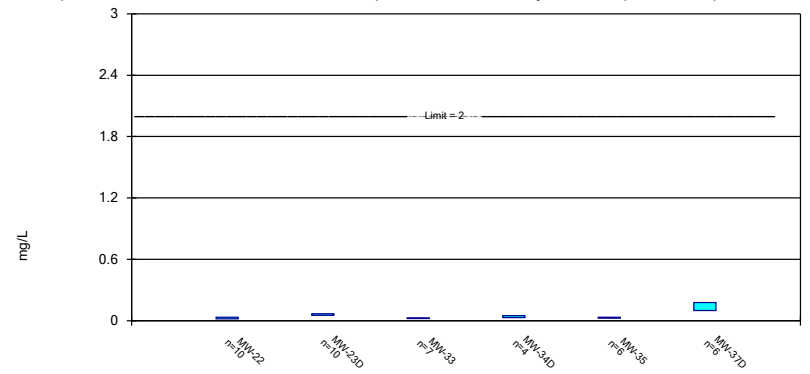
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Constituent: Barium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

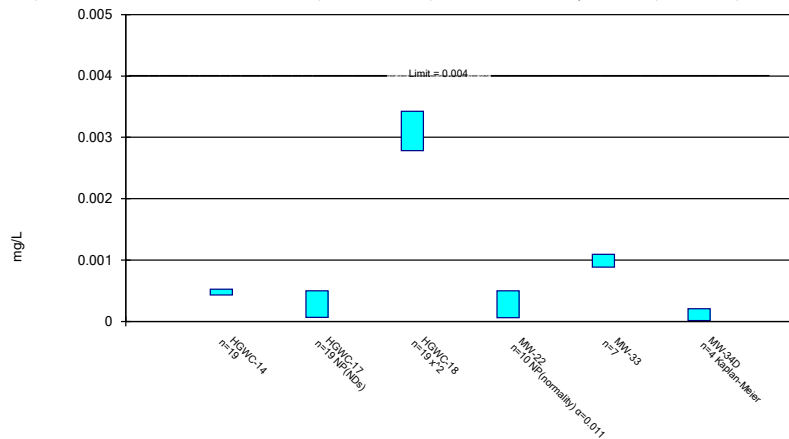
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Constituent: Barium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

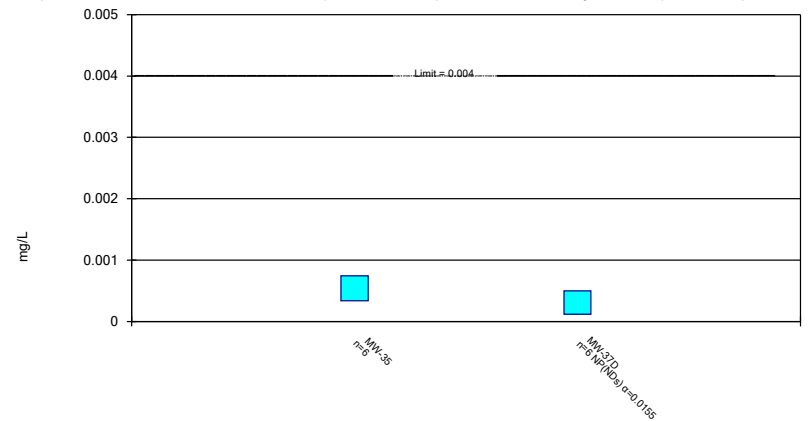
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Constituent: Beryllium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

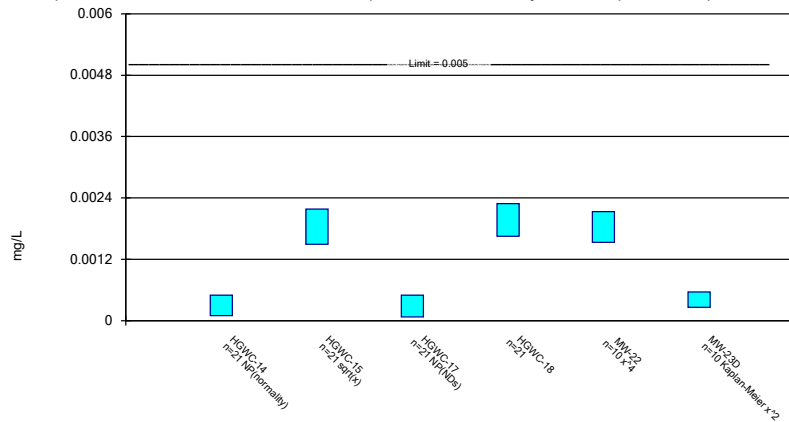
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

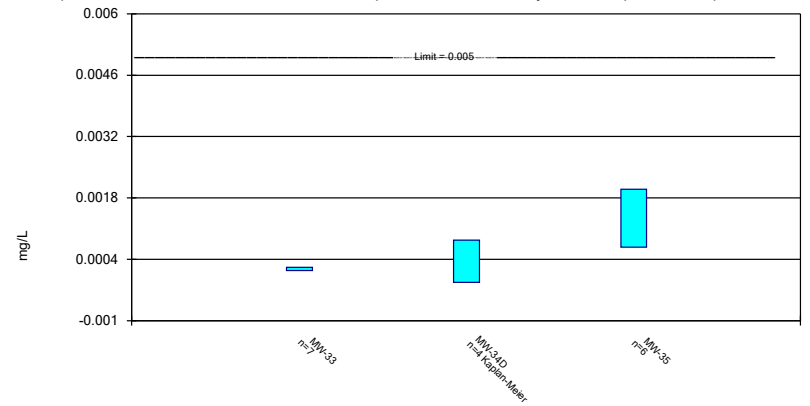
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Constituent: Cadmium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

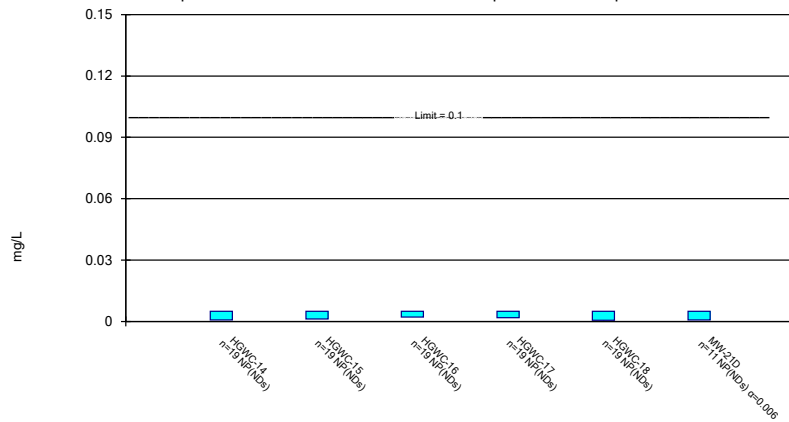
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

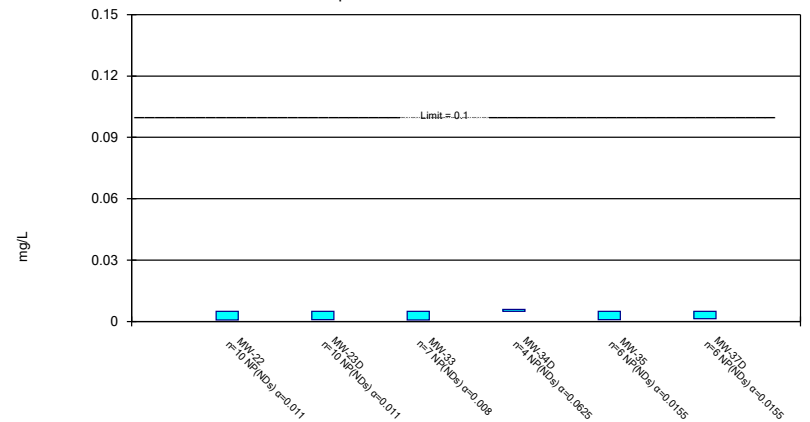
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Constituent: Chromium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

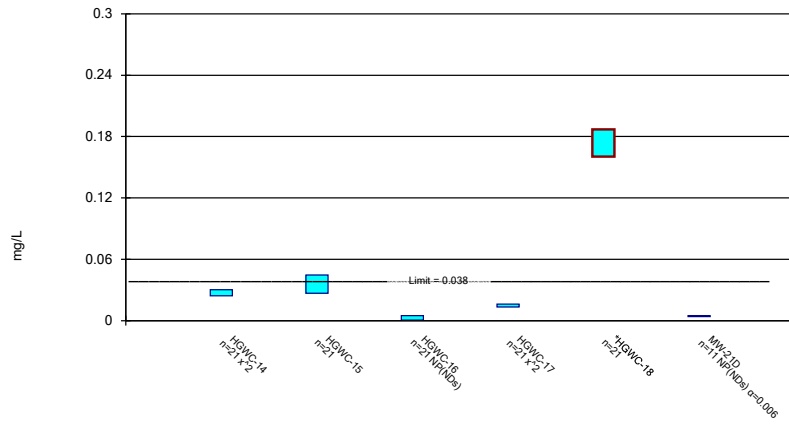
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

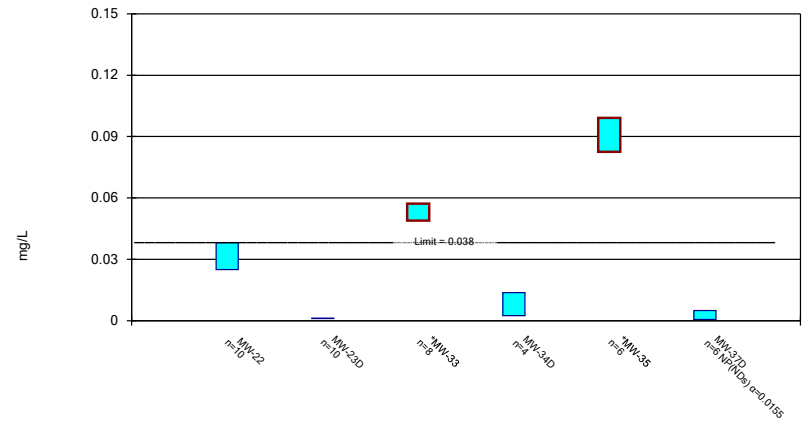
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

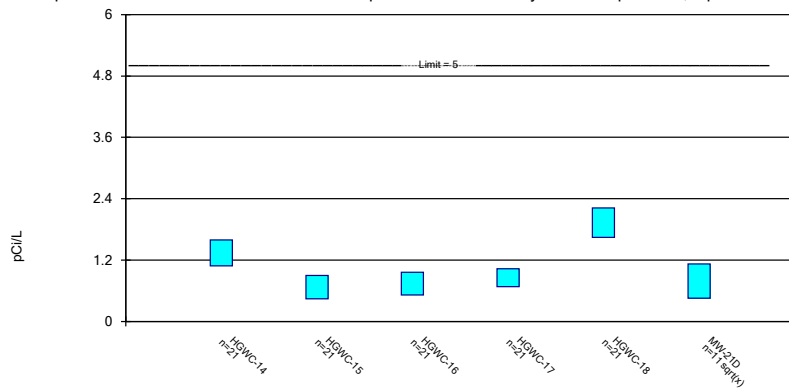
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

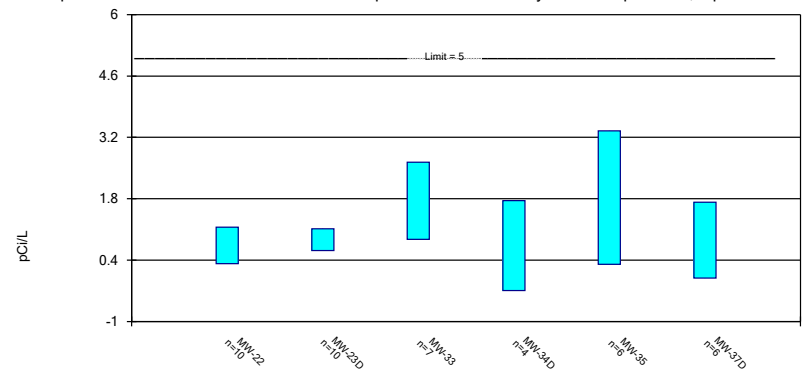
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Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

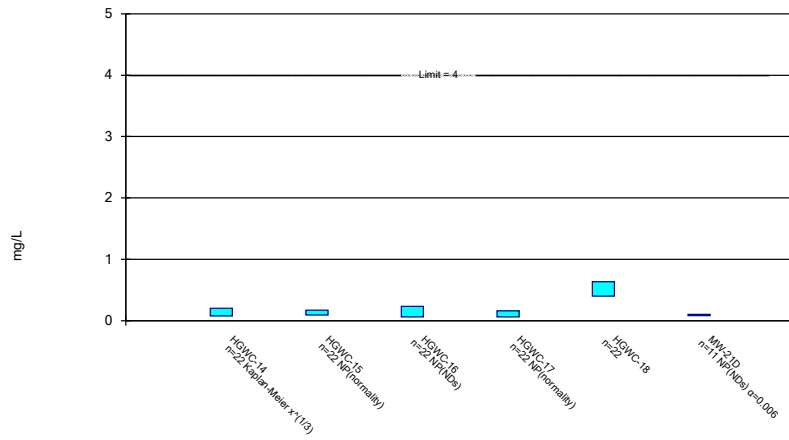
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

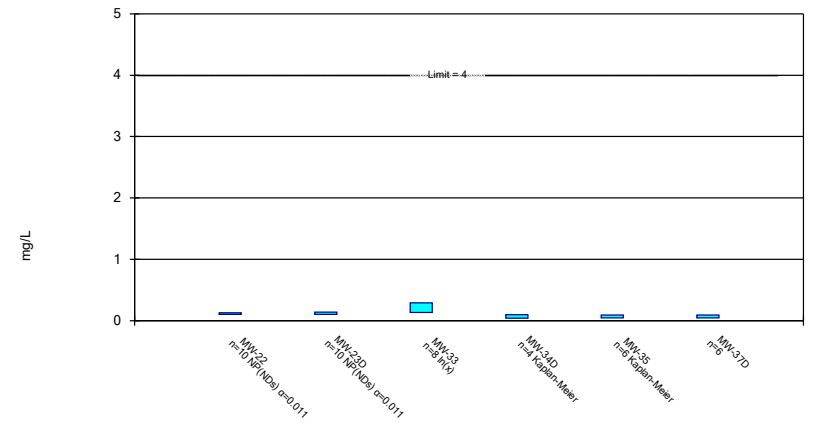
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Constituent: Fluoride Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

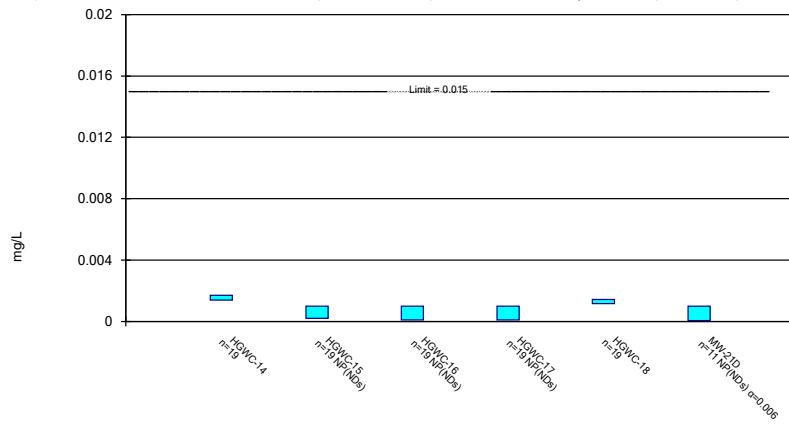
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

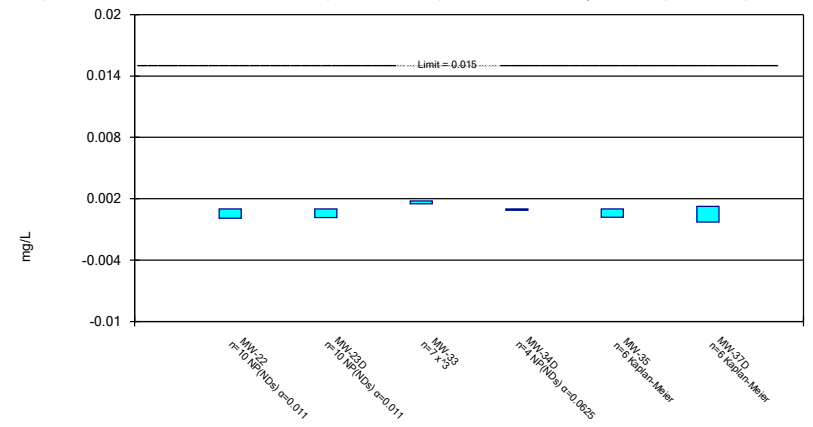
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

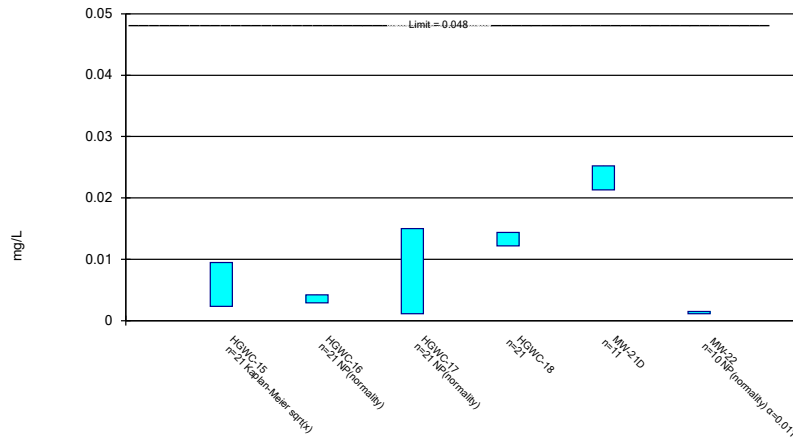
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

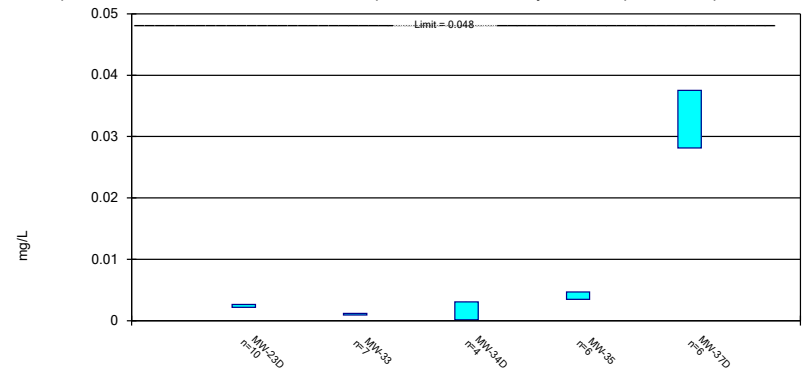
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

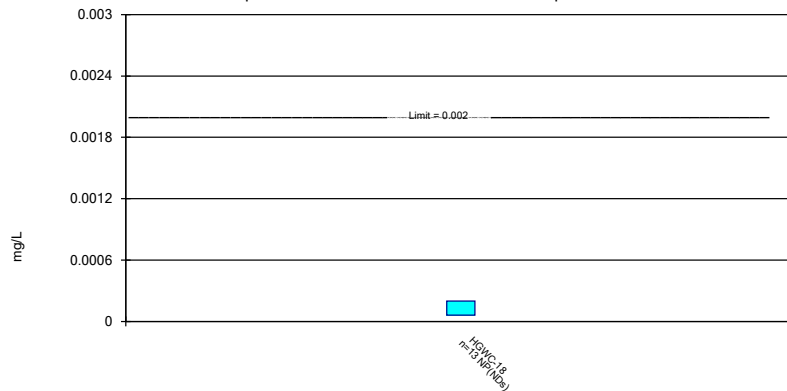
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

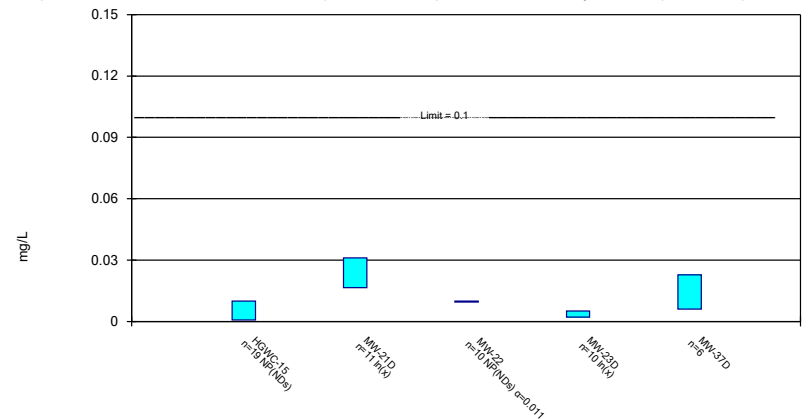
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

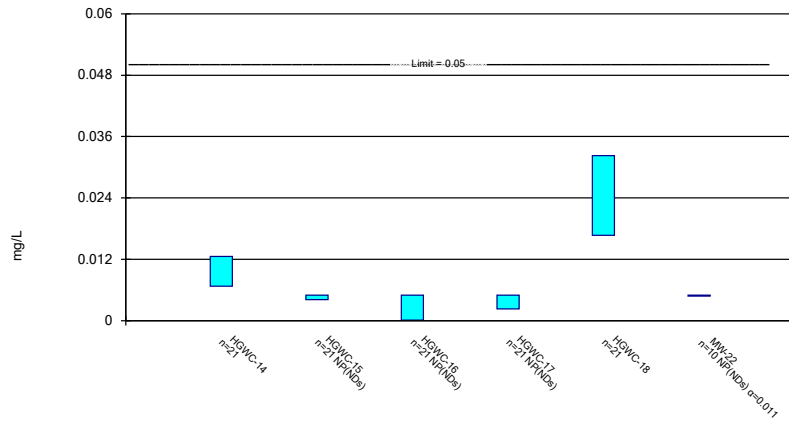
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

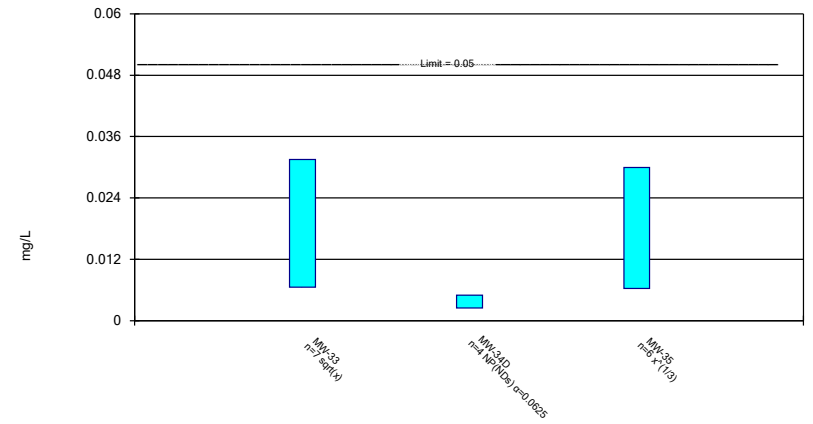
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

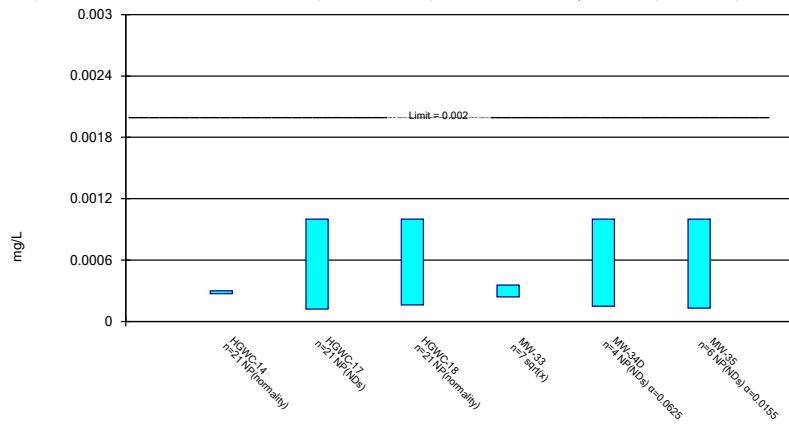
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/26/2022 4:54 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-18	MW-22	MW-33	MW-35
5/23/2016	<0.003	<0.003				
5/24/2016			<0.003			
7/12/2016	0.0003 (J)	<0.003	<0.003			
9/1/2016	<0.003	<0.003	<0.003			
10/24/2016	<0.003	<0.003				
10/25/2016			<0.003			
12/7/2016	<0.003	<0.003				
12/8/2016			<0.003			
1/26/2017	<0.003	<0.003	<0.003			
3/23/2017	<0.003	<0.003	<0.003			
5/24/2017	<0.003	<0.003				
5/25/2017			<0.003			
4/3/2018		<0.003	<0.003			
4/4/2018	<0.003					
3/14/2019	<0.003	<0.003	<0.003			
3/15/2019				<0.003		
3/2/2020				<0.003		
3/3/2020	<0.003	<0.003	<0.003			
2/11/2021	0.00043 (J)		<0.003			
2/12/2021		<0.003			0.00046 (J)	
2/15/2021				<0.003		0.00041 (J)
3/16/2021		<0.003				
3/17/2021	<0.003			<0.003		
3/18/2021			<0.003		<0.003	
3/19/2021						<0.003
8/18/2021	<0.003				<0.003	<0.003
8/19/2021		<0.003	0.0008 (J)	0.0016 (J)	<0.003	<0.003
2/8/2022		0.002 (J)	<0.003	<0.003	<0.003	0.0029 (J)
2/9/2022	<0.003					
Mean	0.002649	0.002933	0.002853	0.002767	0.002365	0.002328
Std. Dev.	0.0009275	0.0002582	0.000568	0.0005715	0.00127	0.001279
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00043	0.002	0.0008	0.0016	0.00046	0.00041

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-37D
2/11/2021	0.00079 (J)
3/12/2021	<0.003
8/18/2021	<0.003
2/8/2022	<0.003
Mean	0.002448
Std. Dev.	0.001105
Upper Lim.	0.003
Lower Lim.	0.00079

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	0.00268 (J)	<0.005	<0.005	<0.005		
5/24/2016					0.00294 (J)	
7/12/2016	0.0059	<0.005	<0.005	<0.005	0.0074	
9/1/2016	0.0056	<0.005	<0.005	<0.005	0.0073	
10/24/2016	0.0058	<0.005				
10/25/2016			<0.005	<0.005	0.006	
12/7/2016	<0.005	<0.005	<0.005	<0.005		
12/8/2016					0.007	
1/26/2017	0.0089	<0.005	<0.005	<0.005	0.0068	
3/22/2017			0.0005 (J)	0.0007 (J)		
3/23/2017	0.0069	0.0008 (J)			0.0082	
5/24/2017	0.0048 (J)	<0.005	<0.005			
5/25/2017				0.0007 (J)	0.006	
4/3/2018		<0.005	<0.005	<0.005	0.0062	
4/4/2018	0.0052					
6/5/2018					0.008	
6/6/2018	0.0059	<0.005	<0.005	0.00097 (J)		
10/3/2018	0.0032 (J)	<0.005	<0.005	<0.005	0.0039 (J)	
3/14/2019	0.0029 (J)	<0.005			0.0036 (J)	
3/15/2019			<0.005	<0.005		<0.005
4/4/2019		0.00017 (J)	0.0001 (J)			0.00019 (J)
4/5/2019	<0.005			<0.005	0.0015 (J)	
9/24/2019	0.0039 (J)	0.00037 (J)				
9/25/2019			<0.005	<0.005	0.0044 (J)	<0.005
3/3/2020	0.0035 (J)	<0.005	<0.005	<0.005	0.0057	<0.005
3/26/2020		<0.005				
3/30/2020	0.0051		0.0011 (J)			
3/31/2020				0.0008 (J)	0.0056	
4/1/2020						0.0013 (J)
6/17/2020						<0.005
9/15/2020					0.0074	
9/16/2020				<0.005		
9/17/2020		<0.005	<0.005			
9/18/2020	0.0029 (J)					
9/21/2020						<0.005
2/10/2021			0.0012 (J)			
2/11/2021	0.0062			0.0012 (J)	0.0069 (B)	0.001 (J)
2/12/2021		<0.005				
3/16/2021		<0.005				
3/17/2021	<0.005		<0.005			
3/18/2021				<0.005	0.0083 (J)	<0.005
8/18/2021	0.0035 (J)			<0.005		
8/19/2021		<0.005	<0.005		0.0045 (J)	<0.005
2/8/2022		<0.005	<0.005	0.0017 (J)	0.005 (J)	<0.005
2/9/2022	0.0077					
Mean	0.005028	0.00435	0.004186	0.00386	0.00584	0.003863
Std. Dev.	0.001634	0.001636	0.001732	0.001856	0.001838	0.001965
Upper Lim.	0.005929	0.005	0.005	0.005	0.006854	0.005
Lower Lim.	0.004126	0.0008	0.0012	0.0012	0.004826	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.005				
3/15/2019	<0.005					
4/5/2019	<0.005	<0.005				
9/26/2019		<0.005				
9/27/2019	0.00045 (J)					
3/2/2020	<0.005	<0.005				
3/27/2020	<0.005					
4/1/2020		0.00082 (J)	0.0061			
6/17/2020			0.0031 (J)			
6/18/2020				0.0032 (J)	0.005 (J)	0.0021 (J)
9/17/2020	<0.005	<0.005				
9/21/2020			0.0083		0.0059	
9/23/2020				0.001 (J)		0.00095 (J)
2/11/2021						0.0023 (J)
2/12/2021		0.001 (J)	0.0059			
2/15/2021	<0.005				0.005	
3/12/2021						<0.005
3/17/2021	<0.005	<0.005				
3/18/2021			0.0054 (J)			
3/19/2021					<0.005	
8/16/2021				0.0024 (J)		
8/18/2021			0.0058		0.0043 (J)	<0.005
8/19/2021	<0.005	<0.005				
2/8/2022	<0.005		0.0069		0.0072	<0.005
2/9/2022				0.0054		
2/10/2022		<0.005				
Mean	0.004545	0.004182	0.005929	0.003	0.0054	0.003392
Std. Dev.	0.001439	0.001725	0.001576	0.00184	0.001018	0.001821
Upper Lim.	0.005	0.005	0.0078	0.007178	0.006646	0.002705
Lower Lim.	0.005	0.001	0.004057	-0.001178	0.003688	0.0009647

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.2	0.0315 (J)	0.0841	0.0222 (J)		
5/24/2016					<0.2	
7/12/2016	0.0214	0.0372	0.0886	0.0221	0.0346	
9/1/2016	0.0208	0.0364	0.0934	0.0227	0.0336	
10/24/2016	0.0208	0.0326				
10/25/2016			0.0991	0.0225	0.0349	
12/7/2016	0.022	0.0301	0.101	0.0227		
12/8/2016					0.0339	
1/26/2017	0.0238	0.0287	0.105	0.0229	0.0293	
3/22/2017			0.11	0.0248		
3/23/2017	0.0244	0.0329			0.0313	
5/24/2017	0.0228	0.0283	0.106			
5/25/2017				0.0255	0.0336	
4/3/2018		0.019	0.099	0.025	0.028	
4/4/2018	0.021					
6/5/2018					0.03	
6/6/2018	0.022	0.022	0.11	0.028		
10/3/2018	0.02	0.025	0.11	0.028	0.032	
3/14/2019	0.019	0.021			0.029	
3/15/2019			0.13	0.029		0.09
4/4/2019		0.018	0.11			0.075
4/5/2019	0.016			0.022	0.021	
9/24/2019	0.021	0.019				
9/25/2019			0.11	0.025	0.03	0.066
3/3/2020	0.018	0.018	0.12	0.026	0.026	0.058
3/26/2020		0.016				
3/30/2020	0.02		0.11			
3/31/2020				0.029	0.029	
4/1/2020						0.066
6/17/2020						0.054
9/15/2020					0.03	
9/16/2020				0.025		
9/17/2020		0.017	0.11			
9/18/2020	0.019					
9/21/2020						0.049
2/10/2021			0.11			
2/11/2021	0.02			0.025	0.03	0.044
2/12/2021		0.014				
3/16/2021		0.012				
3/17/2021	0.023		0.12			
3/18/2021				0.027	0.031	0.047
8/18/2021	0.018			0.022		
8/19/2021		0.01	0.1		0.031	0.042
2/8/2022		0.0098	0.1	0.021	0.02	0.033
2/9/2022	0.017					
Mean	0.02429	0.02279	0.106	0.02464	0.03325	0.05673
Std. Dev.	0.01748	0.008587	0.01056	0.00249	0.01577	0.01649
Upper Lim.	0.0228	0.02752	0.1118	0.02601	0.0336	0.07047
Lower Lim.	0.019	0.01805	0.1002	0.02326	0.029	0.04299

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		0.082				
3/15/2019	0.044					
4/5/2019	0.036	0.061				
9/26/2019		0.064				
9/27/2019	0.028					
3/2/2020	0.027	0.06				
3/27/2020	0.025					
4/1/2020		0.065	0.027			
6/17/2020			0.024			
6/18/2020				0.044	0.029	0.19
9/17/2020	0.02	0.057				
9/21/2020			0.024		0.028	
9/23/2020				0.038		0.14
2/11/2021						0.14
2/12/2021		0.056	0.025			
2/15/2021	0.017				0.026	
3/12/2021						0.12
3/17/2021	0.018	0.058				
3/18/2021			0.029			
3/19/2021					0.032	
8/16/2021				0.035		
8/18/2021			0.025		0.025	0.12
8/19/2021	0.018	0.05				
2/8/2022	0.014		0.02		0.023	0.11
2/9/2022				0.04		
2/10/2022		0.05				
Mean	0.0247	0.0603	0.02486	0.03925	0.02717	0.1367
Std. Dev.	0.00944	0.009154	0.002795	0.003775	0.003189	0.02875
Upper Lim.	0.03312	0.06847	0.02818	0.04782	0.03155	0.1762
Lower Lim.	0.01628	0.05213	0.02154	0.03068	0.02279	0.09717

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-17	HGWC-18	MW-22	MW-33	MW-34D
5/23/2016	<0.0005	<0.0005				
5/24/2016			0.00278 (J)			
7/12/2016	0.0005 (J)	<0.0005	0.0032			
9/1/2016	0.0005 (J)	<0.0005	0.0034			
10/24/2016	0.0005 (J)					
10/25/2016		<0.0005	0.0034			
12/7/2016	0.0006 (J)	<0.0005				
12/8/2016			0.0033			
1/26/2017	0.0005 (J)	<0.0005	0.0034			
3/22/2017		<0.0005				
3/23/2017	0.0006 (J)		0.0036			
5/24/2017	0.0005 (J)					
5/25/2017		<0.0005	0.0036			
4/3/2018		<0.0005	<0.0005			
4/4/2018	<0.0005					
3/14/2019	0.00043 (J)		0.0026 (J)			
3/15/2019		<0.0005		<0.0005		
4/5/2019	0.00027 (J)	<0.0005	0.0022 (J)	<0.0005		
9/24/2019	0.00044 (J)					
9/25/2019		<0.0005	0.0031			
9/27/2019				<0.0005		
3/2/2020				<0.0005		
3/3/2020	0.00043 (J)	<0.0005	0.0029 (J)			
3/27/2020				<0.0005		
3/30/2020	0.00043 (J)					
3/31/2020		<0.0005	0.003			
4/1/2020				0.0011 (J)		
6/17/2020				0.00099 (J)		
6/18/2020						0.00015 (J)
9/15/2020			0.0033			
9/16/2020		<0.0005				
9/17/2020				4.7E-05 (J)		
9/18/2020	0.00043 (J)					
9/21/2020				0.0009 (J)		
9/23/2020						<0.0005
2/11/2021	0.00044 (J)	6.7E-05 (J)	0.0036			
2/12/2021					0.001 (J)	
2/15/2021				6.2E-05 (J)		
3/17/2021	0.00058			8.2E-05 (J)		
3/18/2021		4.8E-05 (J)	0.0038		0.0011	
8/16/2021						<0.0005
8/18/2021	0.00039 (J)	<0.0005			0.00097	
8/19/2021			0.0034	7E-05 (J)		
2/8/2022		<0.0005	0.0026	7.9E-05 (J)	0.00087 (J)	
2/9/2022	0.00056					6.5E-05 (J)
Mean	0.0004789	0.0004534	0.003036	0.000284	0.00099	0.0003038
Std. Dev.	7.937E-05	0.0001396	0.0007391	0.0002279	8.869E-05	0.0002293
Upper Lim.	0.0005254	0.0005	0.003424	0.0005	0.001095	0.000204
Lower Lim.	0.0004325	6.7E-05	0.002783	6.2E-05	0.0008846	1.101E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-35	MW-37D
6/18/2020	0.00032 (J)	0.00012 (J)
9/21/2020	0.0004 (J)	
9/23/2020		<0.0005
2/11/2021		<0.0005
2/15/2021	0.0006 (J)	
3/12/2021		<0.0005
3/19/2021	0.00061	
8/18/2021	0.00061	<0.0005
2/8/2022	0.0007 (J)	<0.0005
Mean	0.00054	0.0004367
Std. Dev.	0.0001463	0.0001551
Upper Lim.	0.000741	0.0005
Lower Lim.	0.000339	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-17	HGWC-18	MW-22	MW-23D
5/23/2016	0.000139 (J)	0.00271 (J)	<0.0005			
5/24/2016				<0.0005		
7/12/2016	<0.0005	0.0019	<0.0005	0.0022		
9/1/2016	0.0001 (J)	0.0017	<0.0005	0.0024		
10/24/2016	0.0002 (J)	0.0018				
10/25/2016			<0.0005	0.0022		
12/7/2016	0.0001 (J)	0.0018	<0.0005			
12/8/2016				0.0024		
1/26/2017	0.0001 (J)	0.0013	<0.0005	0.0025		
3/22/2017			7E-05 (J)			
3/23/2017	0.0002 (J)	0.002		0.0025		
5/24/2017	0.0001 (J)	0.0041				
5/25/2017			<0.0005	0.0027		
4/3/2018		0.0022	<0.0005	0.0022		
4/4/2018	<0.0005					
6/5/2018				0.0022		
6/6/2018	0.00012 (J)	0.0021	<0.0005			
10/3/2018	0.0001 (J)	0.0026	<0.0005	0.0027		
3/14/2019	<0.0005	0.0024		0.0019		<0.0005
3/15/2019			<0.0005		0.00082 (J)	
4/4/2019		0.0018				
4/5/2019	7.9E-05 (J)		<0.0005	0.0017	0.00064 (J)	<0.0005
9/24/2019	<0.0005	0.0014 (J)				
9/25/2019			<0.0005	0.0023 (J)		
9/26/2019						<0.0005
9/27/2019					0.0014 (J)	
3/2/2020					0.0021 (J)	<0.0005
3/3/2020	<0.0005	0.0015 (J)	<0.0005	0.0021 (J)		
3/26/2020		0.0016 (J)				
3/27/2020					0.0019 (J)	
3/30/2020	<0.0005					
3/31/2020			<0.0005	0.0017 (J)		
4/1/2020						<0.0005
9/15/2020				0.0019 (J)		
9/16/2020			<0.0005			
9/17/2020		0.0016 (J)			0.0021 (J)	0.0006 (J)
9/18/2020	<0.0005					
2/11/2021	<0.0005		<0.0005	0.0016 (J)		
2/12/2021		0.0014 (J)				0.00045 (J)
2/15/2021					0.002 (J)	
3/16/2021		0.0011				
3/17/2021	<0.0005				0.0022	0.00057
3/18/2021			<0.0005	0.0015		
8/18/2021	0.00013 (J)		<0.0005			
8/19/2021		0.0012		0.0014	0.0021	0.00012 (J)
2/8/2022		0.0011	<0.0005	0.00076	0.002	
2/9/2022	<0.0005					
2/10/2022						0.00024 (J)
Mean	0.0003032	0.001872	0.0004795	0.00197	0.001726	0.000448
Std. Dev.	0.0001944	0.0006855	9.383E-05	0.000583	0.0005707	0.0001499
Upper Lim.	0.0005	0.002181	0.0005	0.002291	0.002134	0.0005615
Lower Lim.	0.0001	0.001494	7E-05	0.001648	0.001532	0.0002617

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-33	MW-34D	MW-35
4/1/2020	0.00022 (J)		
6/17/2020	0.00021 (J)		
6/18/2020		<0.0005	0.00053 (J)
9/21/2020	0.00016 (J)		0.001 (J)
9/23/2020		<0.0005	
2/12/2021	0.00017 (J)		
2/15/2021			0.0017 (J)
3/18/2021	0.00019 (J)		
3/19/2021			0.0018
8/16/2021		0.00023 (J)	
8/18/2021	0.00017 (J)		0.0015
2/8/2022	0.00013 (J)		0.0015
2/9/2022		0.00072	
Mean	0.0001786	0.0004875	0.001338
Std. Dev.	3.078E-05	0.0002006	0.0004825
Upper Lim.	0.0002151	0.0008342	0.002001
Lower Lim.	0.000142	-0.0001292	0.0006755

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.005	<0.005	<0.005	<0.005		
5/24/2016					<0.005	
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	
10/24/2016	<0.005	<0.005				
10/25/2016			<0.005	<0.005	<0.005	
12/7/2016	<0.005	<0.005	<0.005	<0.005		
12/8/2016					<0.005	
1/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005	
3/22/2017			0.0021 (J)	<0.005		
3/23/2017	<0.005	0.0005 (J)			0.0005 (J)	
5/24/2017	<0.005	<0.005	<0.005			
5/25/2017				<0.005	<0.005	
4/3/2018		<0.005	<0.005	<0.005	<0.005	
4/4/2018	<0.005					
3/14/2019	<0.005	<0.005			<0.005	
3/15/2019			<0.005	<0.005		<0.005
4/4/2019		<0.005	<0.005			<0.005
4/5/2019	<0.005			<0.005	<0.005	
9/24/2019	<0.005	0.00041 (J)				
9/25/2019			<0.005	<0.005	<0.005	<0.005
3/3/2020	0.00042 (J)	<0.005	0.00071 (J)	0.0018 (J)	0.0004 (J)	<0.005
3/26/2020		<0.005				
3/30/2020	0.00066 (J)		0.0004 (J)			
3/31/2020				<0.005	<0.005	
4/1/2020						<0.005
6/17/2020						0.00057 (J)
9/15/2020					0.00063 (J)	
9/16/2020				<0.005		
9/17/2020		<0.005	<0.005			
9/18/2020	<0.005					
9/21/2020						<0.005
2/10/2021			<0.005			
2/11/2021	<0.005			0.00074 (J)	<0.005	<0.005
2/12/2021		<0.005				
3/16/2021		0.0012 (J)				
3/17/2021	<0.005		<0.005			
3/18/2021				0.00069 (J)	<0.005	0.00074 (J)
8/18/2021	<0.005			<0.005		
8/19/2021		<0.005	<0.005		<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005	<0.005	<0.005
2/9/2022	<0.005					
Mean	0.004531	0.004322	0.004379	0.004381	0.004291	0.00421
Std. Dev.	0.001407	0.001616	0.001503	0.001485	0.001683	0.001758
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00066	0.0012	0.0021	0.0018	0.00063	0.00074

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.005				
3/15/2019	<0.005					
4/5/2019	<0.005	<0.005				
9/26/2019		<0.005				
9/27/2019	0.0004 (J)					
3/2/2020	<0.005	<0.005				
3/27/2020	<0.005					
4/1/2020		0.00086 (J)	0.00069 (J)			
6/17/2020			<0.005			
6/18/2020				0.0059 (J)	<0.005	0.0048 (J)
9/17/2020	<0.005	<0.005				
9/21/2020			<0.005		0.00079 (J)	
9/23/2020				<0.005		<0.005
2/11/2021						0.0014 (J)
2/12/2021		<0.005	<0.005			
2/15/2021	<0.005				<0.005	
3/12/2021						<0.005
3/17/2021	0.00075 (J)	0.00083 (J)				
3/18/2021			<0.005			
3/19/2021					0.00083 (J)	
8/16/2021				<0.005		
8/18/2021			<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005				
2/8/2022	<0.005		<0.005		<0.005	<0.005
2/9/2022				<0.005		
2/10/2022		<0.005				
Mean	0.004115	0.004169	0.004384	0.005225	0.003603	0.004367
Std. Dev.	0.001868	0.001752	0.001629	0.00045	0.002164	0.001456
Upper Lim.	0.005	0.005	0.005	0.0059	0.005	0.005
Lower Lim.	0.00075	0.00086	0.00069	0.005	0.00079	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.005	0.0419 (J)	<0.005	0.0167		
5/24/2016					0.17 (J)	
7/12/2016	0.0232	0.0393	<0.005	0.0148	0.168	
9/1/2016	0.0248	0.045	<0.005	0.0151	0.18	
10/24/2016	0.0253	0.0557				
10/25/2016			<0.005	0.0141	0.188	
12/7/2016	0.0269	0.0536	<0.005	0.0141		
12/8/2016					0.206	
1/26/2017	0.0294	0.055	<0.005	0.0154	0.195	
3/22/2017			<0.005	0.0169		
3/23/2017	0.0311	0.0715			0.223	
5/24/2017	0.0279	0.0446	<0.005			
5/25/2017				0.0154	0.209	
4/3/2018		0.032	<0.005	0.016	0.19	
4/4/2018	0.025					
6/5/2018					0.19	
6/6/2018	0.027	0.032	<0.005	0.018		
10/3/2018	0.023	0.051	<0.005	0.016	0.19	
3/14/2019	0.025	0.038			0.16	
3/15/2019			<0.005	0.017		<0.005
4/4/2019		0.035	0.00028 (J)			0.00034 (J)
4/5/2019	0.021			0.016	0.14	
9/24/2019	0.026	0.022				
9/25/2019			<0.005	0.015	0.18	<0.005
3/3/2020	0.029	0.03	0.00037 (J)	0.016	0.15	<0.005
3/26/2020		0.022				
3/30/2020	0.028		<0.005			
3/31/2020				0.016	0.16	
4/1/2020						<0.005
6/17/2020						<0.005
9/15/2020					0.16	
9/16/2020				0.013		
9/17/2020		0.026	<0.005			
9/18/2020	0.027					
9/21/2020						<0.005
2/10/2021			<0.005			
2/11/2021	0.033			0.012	0.14	<0.005
2/12/2021		0.019				
3/16/2021		0.018				
3/17/2021	0.034		<0.005			
3/18/2021				0.012	0.14	<0.005
8/18/2021	0.033			0.009		
8/19/2021		0.011	<0.005		0.15	<0.005
2/8/2022		0.0081	<0.005	0.0066	0.16	<0.005
2/9/2022	0.038					
Mean	0.02679	0.03575	0.004555	0.01453	0.1738	0.004576
Std. Dev.	0.006468	0.01632	0.001406	0.002742	0.02406	0.001405
Upper Lim.	0.03033	0.04475	0.005	0.01601	0.187	0.005
Lower Lim.	0.0244	0.02675	0.00037	0.01342	0.1605	0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		0.0013 (J)				
3/15/2019	0.028					
4/5/2019	0.022	0.0012 (J)				
9/26/2019		0.00098 (J)				
9/27/2019	0.035					
1/22/2020			0.052			
3/2/2020	0.043	0.0011 (J)				
3/27/2020	0.025					
4/1/2020		0.0011 (J)	0.058			
6/17/2020			0.053			
6/18/2020				0.011	0.091	0.0015 (J)
9/17/2020	0.029	0.00096 (J)				
9/21/2020			0.047		0.084	
9/23/2020				0.0056		<0.005
2/11/2021						0.00048 (J)
2/12/2021		0.001 (J)	0.055			
2/15/2021	0.038				0.095	
3/12/2021						<0.005
3/17/2021	0.039	0.0011 (J)				
3/18/2021			0.057			
3/19/2021					0.1	
8/16/2021				0.0093		
8/18/2021			0.054		0.085	<0.005
8/19/2021	0.022	0.00089 (J)				
2/8/2022	0.034		0.048		0.09	<0.005
2/9/2022				0.0065		
2/10/2022		0.001 (J)				
Mean	0.0315	0.001063	0.053	0.0081	0.09083	0.003663
Std. Dev.	0.007382	0.0001222	0.003928	0.002494	0.006047	0.002096
Upper Lim.	0.03809	0.001172	0.05716	0.01376	0.09914	0.005
Lower Lim.	0.02491	0.000954	0.04884	0.002438	0.08253	0.00048

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	0.568 (U)	0.171 (U)		0.618 (U)		
5/24/2016					1.82	
7/1/2016			0 (U)			
7/12/2016	1.31	0.611 (U)	0.182 (U)	0.867	1.76	
9/1/2016	1.64	0.766 (U)	1.23	0.857 (U)	1.51	
10/24/2016	1.88	0.969				
10/25/2016			1.05 (U)	1.11 (U)	2.69	
12/7/2016	1.35	0.302 (U)	1.11 (U)	0.964 (U)		
12/8/2016					2.21	
1/26/2017	2.1	0.626 (U)	1.29 (U)	0.612 (U)	2.26	
3/22/2017			0.453 (U)	0.437 (U)		
3/23/2017	1.17	0.662 (U)			1.81	
5/24/2017	1 (U)	0.202 (U)	1.05 (U)			
5/25/2017				1.21 (U)	1.63	
4/3/2018		0.384 (U)	0.783 (U)	0.409 (U)	2.53	
4/4/2018	1.72					
6/5/2018					1.91	
6/6/2018	1.31 (U)	1.32 (U)	0.595 (U)	0.772 (U)		
10/3/2018	1.48	0.858 (U)	1.03 (U)	1.08 (U)	2.22	
3/14/2019	1.5	0.462 (U)			1.37 (U)	
3/15/2019			0.591 (U)	0.917 (U)		0.972 (U)
4/4/2019		0.512 (U)	0.96 (U)			0.791 (U)
4/5/2019	1.43 (U)			1.07 (U)	2.22	
9/24/2019	1.17	0.582 (U)				
9/25/2019			0.643 (U)	1.54	2.77	0.751 (U)
3/3/2020	1.84	1.43	1.32 (U)	1.33	2.35	1.94
3/26/2020		0.855 (U)				
3/30/2020	1.08 (U)		0.288 (U)			
3/31/2020				0.591 (U)	2.7	
4/1/2020						0.758 (U)
6/17/2020						0.691 (U)
9/15/2020					1.65	
9/16/2020				0.295 (U)		
9/17/2020		0.395 (U)	1.1 (U)			
9/18/2020	1.8 (U)					
9/21/2020						0.436 (U)
2/10/2021			0.773 (U)			
2/11/2021	0.73 (U)			0.831 (U)	1.11	0.317 (U)
2/12/2021		1.65				
3/16/2021		0.801 (U)				
3/17/2021	1.84		0.228 (U)			
3/18/2021				0.856 (U)	1.63	0.5 (U)
8/18/2021	0.858 (U)			0.548 (U)		
8/19/2021		0.527 (U)	0.668 (U)		1.45	1.17
2/8/2022		0.0242 (U)	0.168 (U)	1 (U)	0.93 (U)	0.463 (U)
2/9/2022	0.346 (U)					
Mean	1.339	0.6719	0.7387	0.853	1.93	0.799
Std. Dev.	0.4637	0.4139	0.4041	0.3157	0.5232	0.4529
Upper Lim.	1.595	0.9002	0.9616	1.027	2.219	1.121
Lower Lim.	1.083	0.4436	0.5157	0.6789	1.641	0.4539

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		0.872 (U)				
3/15/2019	0.977					
4/5/2019	1.06 (U)	0.932 (U)				
9/26/2019		1.25				
9/27/2019	1.44 (U)					
3/2/2020	0.872 (U)	0.964 (U)				
3/27/2020	0.96 (U)					
4/1/2020		0.914 (U)	2.57			
6/17/2020			1.43 (U)			
6/18/2020				1.36	2.02	1.79
9/17/2020	0.0879 (U)	0.32 (U)				
9/21/2020			2.53		3.85	
9/23/2020				0.563 (U)		0.98 (U)
2/11/2021						0.12 (U)
2/12/2021		1.21 (U)	2.26			
2/15/2021	0.215 (U)				1.52	
3/12/2021						0.578 (U)
3/17/2021	0.981 (U)	0.579 (U)				
3/18/2021			0.733 (U)			
3/19/2021					0.524 (U)	
8/16/2021				0.693 (U)		
8/18/2021			1.77		1.67	1.31
8/19/2021	0.689 (U)	0.69 (U)				
2/8/2022	0.0657 (U)		0.967 (U)		1.38	0.345 (U)
2/9/2022				0.297 (U)		
2/10/2022		0.919 (U)				
Mean	0.7348	0.865	1.751	0.7283	1.827	0.8538
Std. Dev.	0.4631	0.2782	0.7406	0.4523	1.109	0.6283
Upper Lim.	1.148	1.113	2.631	1.755	3.35	1.717
Lower Lim.	0.3216	0.6168	0.8717	-0.2986	0.3043	-0.009304

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.1	<0.1	0.038 (J)	<0.1		
5/24/2016					<0.1	
7/12/2016	0.2 (J)	0.09 (J)	0.26 (J)	0.09 (J)	0.54	
9/1/2016	0.08 (J)	0.22 (J)	0.42	0.03 (J)	0.49	
10/24/2016	0.04 (J)	0.07 (J)				
10/25/2016			0.25 (J)	0.07 (J)	0.58	
12/7/2016	0.11 (J)	0.23 (J)	0.23 (J)	0.54		
12/8/2016					0.63	
1/26/2017	0.13 (J)	<0.1	0.02 (J)	<0.1	0.71	
3/22/2017			0.3	0.07 (J)		
3/23/2017	0.28 (J)	0.12 (J)			0.57	
5/24/2017	0.32	0.31	0.46			
5/25/2017				0.42	0.54	
10/4/2017	0.52	0.6	<0.1	0.93	0.95	
4/3/2018		<0.1	<0.1	<0.1	0.33	
4/4/2018	<0.1					
6/5/2018					0.66	
6/6/2018	0.25 (J)	0.17 (J)	<0.1	0.23 (J)		
10/3/2018	0.21 (J)	<0.1	<0.1	<0.1	0.32	
3/14/2019	0.24 (J)	<0.1			0.88	
3/15/2019			<0.1	<0.1		<0.1
4/4/2019		0.066 (J)	<0.1			0.1 (J)
4/5/2019	0.66			0.16 (J)	0.37	
9/24/2019	0.053 (J)	0.12 (J)				
9/25/2019			<0.1	0.081 (J)	0.73	<0.1
3/3/2020	<0.1	0.064 (J)	<0.1	<0.1	0.34	<0.1
3/26/2020		<0.1				
3/30/2020	0.092 (J)		0.059 (J)			
3/31/2020				<0.1	0.45	
4/1/2020						<0.1
6/17/2020						<0.1
9/15/2020					0.31	
9/16/2020				0.058 (J)		
9/17/2020		<0.1	<0.1			
9/18/2020	<0.1					
9/21/2020						<0.1
2/10/2021			0.21			
2/11/2021	0.059 (J)			0.058 (J)	0.71	<0.1
2/12/2021		0.053 (J)				
3/16/2021		<0.1				
3/17/2021	0.076 (J)		<0.1			
3/18/2021				0.057 (J)	0.64	<0.1
8/18/2021	<0.1			0.062 (J)		
8/19/2021		<0.1	<0.1		0.31	<0.1
2/8/2022		<0.1	<0.1	0.055 (J)	0.19	<0.1
2/9/2022	0.053 (J)					
Mean	0.176	0.1415	0.1567	0.1641	0.5159	0.1
Std. Dev.	0.1573	0.1193	0.1176	0.2105	0.2175	4.5E-10
Upper Lim.	0.2023	0.17	0.23	0.16	0.6327	0.1
Lower Lim.	0.07774	0.09	0.059	0.062	0.3991	0.1

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.1				
3/15/2019	<0.1					
4/5/2019	0.13 (J)	0.14 (J)				
9/26/2019		0.16 (J)				
9/27/2019	0.28 (J)					
1/22/2020			0.18 (J)			
3/2/2020	<0.1	<0.1				
3/27/2020	<0.1					
4/1/2020		<0.1	0.15 (J)			
6/17/2020			0.25			
6/18/2020				0.082 (J)	0.053 (J)	0.1
9/17/2020	<0.1	<0.1				
9/21/2020			0.14		<0.1	
9/23/2020				<0.1		0.065 (J)
2/11/2021						0.077 (J)
2/12/2021		<0.1	0.25			
2/15/2021	<0.1				0.093 (J)	
3/12/2021						0.061 (J)
3/17/2021	<0.1	<0.1				
3/18/2021			0.4			
3/19/2021					0.082 (J)	
8/16/2021				0.066 (J)		
8/18/2021			0.16		0.052 (J)	0.05 (J)
8/19/2021	<0.1	<0.1				
2/8/2022	<0.1		0.14		0.065 (J)	0.055 (J)
2/9/2022				0.051 (J)		
2/10/2022		<0.1				
Mean	0.121	0.11	0.2088	0.07475	0.07417	0.068
Std. Dev.	0.05666	0.0216	0.08951	0.02106	0.02053	0.0182
Upper Lim.	0.13	0.14	0.29	0.09507	0.0912	0.093
Lower Lim.	0.1	0.1	0.1315	0.0376	0.0468	0.043

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	0.00182 (J)	<0.001	<0.001	<0.001		
5/24/2016					0.00154 (J)	
7/12/2016	0.0015 (J)	<0.001	<0.001	<0.001	0.0012 (J)	
9/1/2016	0.0016 (J)	<0.001	<0.001	<0.001	0.0014 (J)	
10/24/2016	0.0016 (J)	<0.001				
10/25/2016			<0.001	<0.001	0.0015 (J)	
12/7/2016	0.0018 (J)	<0.001	<0.001	<0.001		
12/8/2016					0.0017 (J)	
1/26/2017	0.002 (J)	<0.001	0.0001 (J)	<0.001	0.0013 (J)	
3/22/2017			0.0002 (J)	0.0001 (J)		
3/23/2017	0.0019 (J)	0.001 (J)			0.001 (J)	
5/24/2017	0.0016 (J)	0.0001 (J)	0.0001 (J)			
5/25/2017				<0.001	0.0012 (J)	
4/3/2018		<0.001	<0.001	<0.001	<0.001	
4/4/2018	<0.001					
3/14/2019	0.0014 (J)	<0.001			0.0015 (J)	
3/15/2019			<0.001	<0.001		<0.001
4/4/2019		7.2E-05 (J)	0.00016 (J)			<0.001
4/5/2019	0.0012 (J)			7.6E-05 (J)	0.0015 (J)	
9/24/2019	0.0013 (J)	0.0002 (J)				
9/25/2019			<0.001	8.9E-05 (J)	0.0015 (J)	<0.001
3/3/2020	0.0017 (J)	5.3E-05 (J)	0.00016 (J)	0.00013 (J)	0.0013 (J)	4.7E-05 (J)
3/26/2020		<0.001				
3/30/2020	0.0015 (J)		7.3E-05 (J)			
3/31/2020				7.7E-05 (J)	0.0014 (J)	
4/1/2020						4.8E-05 (J)
6/17/2020						<0.001
9/15/2020					0.0014 (J)	
9/16/2020				6.5E-05 (J)		
9/17/2020		<0.001	7.8E-05 (J)			
9/18/2020	0.0012 (J)					
9/21/2020						<0.001
2/10/2021			9.4E-05 (J)			
2/11/2021	0.0015 (J)			0.00018 (J)	0.00098 (J)	0.00066 (J)
2/12/2021		<0.001				
3/16/2021		<0.001				
3/17/2021	0.0019		5.8E-05 (J)			
3/18/2021				8.8E-05 (J)	0.00096 (J)	7.3E-05 (J)
8/18/2021	0.0015			<0.001		
8/19/2021		<0.001	<0.001		0.0013	<0.001
2/8/2022		<0.001	<0.001	<0.001	0.0009 (J)	<0.001
2/9/2022	0.0014					
Mean	0.001548	0.0008118	0.0005802	0.0006213	0.001294	0.0007116
Std. Dev.	0.0002664	0.0003753	0.0004558	0.0004568	0.0002339	0.000433
Upper Lim.	0.001704	0.001	0.001	0.001	0.001431	0.001
Lower Lim.	0.001392	0.0002	9.4E-05	8.8E-05	0.001157	4.8E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.001				
3/15/2019	<0.001					
4/5/2019	<0.001	<0.001				
9/26/2019		<0.001				
9/27/2019	0.0001 (J)					
3/2/2020	9.4E-05 (J)	5.1E-05 (J)				
3/27/2020	<0.001					
4/1/2020		<0.001	0.0017 (J)			
6/17/2020			0.0017 (J)			
6/18/2020				0.00087 (J)	0.00016 (J)	0.0017 (J)
9/17/2020	<0.001	0.00016 (J)				
9/21/2020			0.0017 (J)		0.00099 (J)	
9/23/2020				<0.001		8.2E-05 (J)
2/11/2021						0.00039 (J)
2/12/2021		<0.001	0.0018 (J)			
2/15/2021	3.6E-05 (J)				0.00055 (J)	
3/12/2021						<0.001
3/17/2021	<0.001	<0.001				
3/18/2021			0.0017			
3/19/2021					0.00066 (J)	
8/16/2021				<0.001		
8/18/2021			0.0016		<0.001	<0.001
8/19/2021	<0.001	<0.001				
2/8/2022	<0.001		0.0014		<0.001	<0.001
2/9/2022				<0.001		
2/10/2022		<0.001				
Mean	0.000723	0.0008211	0.001657	0.0009675	0.0007267	0.000862
Std. Dev.	0.0004463	0.000378	0.0001272	6.5E-05	0.0003393	0.000564
Upper Lim.	0.001	0.001	0.001793	0.001	0.0009972	0.001254
Lower Lim.	9.4E-05	0.00016	0.001514	0.00087	0.0001828	-0.000294

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.03	<0.03	<0.03			
5/24/2016				0.0142 (J)		
7/12/2016	<0.03	0.0037 (J)	<0.03	0.0141 (J)		
9/1/2016	0.0021 (J)	0.0033 (J)	<0.03	0.0158 (J)		
10/24/2016	<0.03					
10/25/2016		0.0029 (J)	<0.03	0.016 (J)		
12/7/2016	<0.03	0.0029 (J)	<0.03			
12/8/2016				0.0144 (J)		
1/26/2017	<0.03	0.0028 (J)	<0.03	0.0136 (J)		
3/22/2017		0.0025 (J)	<0.03			
3/23/2017	0.0016 (J)			0.0151 (J)		
5/24/2017	0.0029 (J)	0.0029 (J)				
5/25/2017			0.0011 (J)	0.0154 (J)		
4/3/2018	0.0026 (J)	0.0028 (J)	<0.03	0.013 (J)		
6/5/2018				0.013 (J)		
6/6/2018	0.0013 (J)	0.0031 (J)	<0.03			
10/3/2018	0.0017 (J)	0.0026 (J)	<0.03	0.015 (J)		
3/14/2019	<0.03			0.011 (J)		
3/15/2019		0.0041 (J)	0.0011 (J)		0.025 (J)	0.002 (J)
4/4/2019	0.0009 (J)	0.0032 (J)			0.019 (J)	
4/5/2019			0.00074 (J)	0.0084 (J)		0.0013 (J)
9/24/2019	0.0012 (J)					
9/25/2019		0.0038 (J)	0.0011 (J)	0.015 (J)	0.024 (J)	
9/27/2019						0.0013 (J)
3/2/2020						0.0015 (J)
3/3/2020	0.0084 (J)	0.0047 (J)	0.0012 (J)	0.012 (J)	0.026 (J)	
3/26/2020	0.0061 (J)					
3/27/2020						0.0013 (J)
3/30/2020		0.0041 (J)				
3/31/2020			0.0009 (J)	0.012 (J)		
4/1/2020					0.026 (J)	
6/17/2020					0.023 (J)	
9/15/2020				0.014 (J)		
9/16/2020			0.0012 (J)			
9/17/2020	0.0094 (J)	0.0043 (J)				0.0011 (J)
9/21/2020					0.022 (J)	
2/10/2021		0.0038 (J)				
2/11/2021			0.0013 (J)	0.011 (J)	0.021 (J)	
2/12/2021	0.036					
2/15/2021						0.0011 (J)
3/16/2021	0.032					
3/17/2021		0.0048 (J)				0.0012 (J)
3/18/2021			0.0014 (J)	0.013 (J)	0.026 (J)	
8/18/2021			0.0012 (J)			
8/19/2021	0.0058 (J)	0.0042 (J)		0.013 (J)	0.022 (J)	0.0012 (J)
2/8/2022	0.014 (J)	0.0034 (J)	0.0014 (J)	0.01 (J)	0.022 (J)	0.0011 (J)
Mean	0.01029	0.004043	0.007745	0.01329	0.02327	0.00131
Std. Dev.	0.009755	0.002602	0.00709	0.001993	0.002328	0.0002726
Upper Lim.	0.00947	0.0042	0.015	0.01439	0.02521	0.0015
Lower Lim.	0.002331	0.0029	0.0011	0.01219	0.02133	0.0011

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	0.0028 (J)				
4/5/2019	0.0021 (J)				
9/26/2019	0.0023 (J)				
3/2/2020	0.0025 (J)				
4/1/2020	0.0024 (J)	0.0011 (J)			
6/17/2020		0.00097 (J)			
6/18/2020			0.0021 (J)	0.0046 (J)	0.038 (J)
9/17/2020	0.0021 (J)				
9/21/2020		0.00086 (J)		0.0036 (J)	
9/23/2020			0.0011 (J)		0.031
2/11/2021					0.034
2/12/2021	0.0023 (J)	0.0011 (J)			
2/15/2021				0.0043 (J)	
3/12/2021					0.035
3/17/2021	0.0024 (J)				
3/18/2021		0.0012 (J)			
3/19/2021				0.0045 (J)	
8/16/2021			0.001 (J)		
8/18/2021		0.00097 (J)		0.0036 (J)	0.03
8/19/2021	0.0022 (J)				
2/8/2022		0.001 (J)		0.0039 (J)	0.029 (J)
2/9/2022			0.0022 (J)		
2/10/2022	0.0029 (J)				
Mean	0.0024	0.001029	0.0016	0.004083	0.03283
Std. Dev.	0.0002708	0.0001123	0.0006377	0.0004446	0.00343
Upper Lim.	0.002642	0.001162	0.003048	0.004694	0.03755
Lower Lim.	0.002158	0.0008952	0.001522	0.003473	0.02812

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-18
5/24/2016	<0.0002
7/12/2016	<0.0002
9/1/2016	6E-05 (J)
10/25/2016	4E-05 (J)
12/8/2016	<0.0002
1/26/2017	8E-05 (J)
3/23/2017	9E-05 (J)
5/25/2017	8E-05 (J)
4/3/2018	<0.0002
3/14/2019	<0.0002
3/3/2020	<0.0002
2/11/2021	<0.0002
2/8/2022	<0.0002
Mean	0.00015
Std. Dev.	6.683E-05
Upper Lim.	0.0002
Lower Lim.	6E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-15	MW-21D	MW-22	MW-23D	MW-37D
5/23/2016	<0.01				
7/12/2016	0.0007 (J)				
9/1/2016	<0.01				
10/24/2016	<0.01				
12/7/2016	<0.01				
1/26/2017	<0.01				
3/23/2017	<0.01				
5/24/2017	<0.01				
4/3/2018	<0.01				
3/14/2019	<0.01			<0.01	
3/15/2019		0.045	<0.01		
4/4/2019	<0.01	0.033			
4/5/2019			0.00013 (J)	0.0014 (J)	
9/24/2019	<0.01				
9/25/2019		0.038			
9/26/2019				0.0025 (J)	
9/27/2019			<0.01		
3/2/2020			<0.01	0.003 (J)	
3/3/2020	<0.01	0.025			
3/26/2020	<0.01				
3/27/2020			<0.01		
4/1/2020		0.024		0.0032 (J)	
6/17/2020		0.019			
6/18/2020					0.023
9/17/2020	<0.01		<0.01	0.0026 (J)	
9/21/2020		0.017			
9/23/2020					0.015
2/11/2021		0.016			0.019
2/12/2021	<0.01			0.0039 (J)	
2/15/2021			<0.01		
3/12/2021					0.014
3/16/2021	<0.01				
3/17/2021			<0.01	0.0034 (J)	
3/18/2021		0.016			
8/18/2021					0.0083 (J)
8/19/2021	<0.01	0.018	<0.01	0.0034 (J)	
2/8/2022	<0.01	0.016	<0.01		0.007 (J)
2/10/2022				0.0034 (J)	
Mean	0.009511	0.02427	0.009013	0.00368	0.01438
Std. Dev.	0.002134	0.0101	0.003121	0.002326	0.006125
Upper Lim.	0.01	0.03102	0.01	0.005029	0.0228
Lower Lim.	0.0007	0.01654	0.01	0.002108	0.005969

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-22
5/23/2016	0.017	<0.005	<0.005	<0.005		
5/24/2016					<0.005	
7/12/2016	0.0146	<0.005	<0.005	<0.005	0.036	
9/1/2016	0.0137	<0.005	<0.005	0.0014 (J)	0.0347	
10/24/2016	0.0135	0.0012 (J)				
10/25/2016			<0.005	<0.005	0.0282	
12/7/2016	0.01 (J)	0.0041 (J)	<0.005	0.0023 (J)		
12/8/2016					0.0373	
1/26/2017	0.0214	<0.005	<0.005	<0.005	0.0385	
3/22/2017			<0.005	<0.005		
3/23/2017	0.0167	0.0016 (J)			0.0414	
5/24/2017	0.0083 (J)	<0.005	<0.005			
5/25/2017				<0.005	0.019	
4/3/2018		<0.005	<0.005	<0.005	0.029	
4/4/2018	0.012					
6/5/2018					0.038	
6/6/2018	0.014	<0.005	<0.005	<0.005		
10/3/2018	0.0056 (J)	<0.005	<0.005	<0.005	0.017	
3/14/2019	0.0048 (J)	<0.005			0.016	
3/15/2019			<0.005	<0.005		<0.005
4/4/2019		0.00021 (J)	8.9E-05 (J)			
4/5/2019	0.00091 (J)			9.3E-05 (J)	0.0018 (J)	<0.005
9/24/2019	0.0064 (J)	<0.005				
9/25/2019			<0.005	<0.005	0.02	
9/27/2019						<0.005
3/2/2020						<0.005
3/3/2020	0.0045 (J)	<0.005	<0.005	<0.005	0.014	
3/26/2020		<0.005				
3/27/2020						<0.005
3/30/2020	0.0049 (J)		<0.005			
3/31/2020				<0.005	0.019	
9/15/2020					0.059	
9/16/2020				<0.005		
9/17/2020		<0.005	<0.005			0.002 (J)
9/18/2020	0.0045 (J)					
2/10/2021			<0.005			
2/11/2021	0.0072 (J)			<0.005	0.023	
2/12/2021		<0.005				
2/15/2021						<0.005
3/16/2021		<0.005				
3/17/2021	0.01 (J)		<0.005			<0.005
3/18/2021				<0.005	0.019 (J)	
8/18/2021	0.0077			<0.005		
8/19/2021		<0.005	<0.005		0.01	<0.005
2/8/2022		<0.005	<0.005	<0.005	0.0082	<0.005
2/9/2022	0.0047 (J)					
Mean	0.009639	0.004386	0.004766	0.004466	0.02448	0.0047
Std. Dev.	0.005295	0.001446	0.001072	0.001385	0.01416	0.0009487
Upper Lim.	0.01256	0.005	0.005	0.005	0.03229	0.005
Lower Lim.	0.006717	0.0041	8.9E-05	0.0023	0.01667	0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-33	MW-34D	MW-35
4/1/2020	0.011		
6/17/2020	0.014		
6/18/2020		0.0025 (J)	0.014
9/21/2020	0.041		0.037
9/23/2020		<0.005	
2/12/2021	0.011		
2/15/2021			0.01
3/18/2021	0.028		
3/19/2021			0.016 (J)
8/16/2021		<0.005	
8/18/2021	0.014		0.014
2/8/2022	0.0078		0.0083
2/9/2022		<0.005	
Mean	0.01811	0.004375	0.01655
Std. Dev.	0.01199	0.00125	0.01042
Upper Lim.	0.03151	0.005	0.02994
Lower Lim.	0.00655	0.0025	0.006285

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/26/2022 4:55 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-17	HGWC-18	MW-33	MW-34D	MW-35
5/23/2016	0.000306 (J)	<0.001				
5/24/2016			<0.001			
7/12/2016	0.0003 (J)	0.0001 (J)	0.0002 (J)			
9/1/2016	0.0003 (J)	<0.001	<0.001			
10/24/2016	0.0004					
10/25/2016		<0.001	<0.001			
12/7/2016	0.0003 (J)	<0.001				
12/8/2016			<0.001			
1/26/2017	0.0003 (J)	<0.001	<0.001			
3/22/2017		0.0001 (J)				
3/23/2017	0.0003 (J)		0.0002 (J)			
5/24/2017	0.0003 (J)					
5/25/2017		0.0001 (J)	0.0002 (J)			
4/3/2018		<0.001	0.00014 (J)			
4/4/2018	0.00028 (J)					
6/5/2018			0.00016 (J)			
6/6/2018	0.00029 (J)	<0.001				
10/3/2018	0.00029 (J)	<0.001	<0.001			
3/14/2019	0.00028 (J)		<0.001			
3/15/2019		<0.001				
4/5/2019	0.00028 (J)	0.00013 (J)	0.00014 (J)			
9/24/2019	0.0003 (J)					
9/25/2019		0.00012 (J)	0.00019 (J)			
3/3/2020	0.00026 (J)	0.00011 (J)	0.00013 (J)			
3/30/2020	0.00028 (J)					
3/31/2020		0.00014 (J)	0.00015 (J)			
4/1/2020				0.00029 (J)		
6/17/2020				0.00028 (J)		
6/18/2020					0.00015 (J)	0.00013 (J)
9/15/2020			0.00016 (J)			
9/16/2020		<0.001				
9/18/2020	0.00028 (J)					
9/21/2020				0.00029 (J)		<0.001
9/23/2020					<0.001	
2/11/2021	0.00026 (J)	<0.001	<0.001			
2/12/2021				0.00025 (J)		
2/15/2021						<0.001
3/17/2021	0.00034 (J)					
3/18/2021		<0.001	0.00016 (J)	0.00031 (J)		
3/19/2021						<0.001
8/16/2021					<0.001	
8/18/2021	0.00027 (J)	<0.001		0.0004 (J)		<0.001
8/19/2021			0.0002 (J)			
2/8/2022		<0.001	<0.001	0.00025 (J)		<0.001
2/9/2022	0.00025 (J)				<0.001	
Mean	0.0002936	0.0007048	0.0005252	0.0002957	0.0007875	0.000855
Std. Dev.	3.129E-05	0.0004279	0.0004218	5.094E-05	0.000425	0.0003552
Upper Lim.	0.0003	0.001	0.001	0.0003547	0.001	0.001
Lower Lim.	0.00027	0.00012	0.00016	0.0002389	0.00015	0.00013

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:57 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>
Cobalt (mg/L)	HGWC-18	-0.008288	-88	-87	Yes	21	0	n/a	n/a	0.01	NP

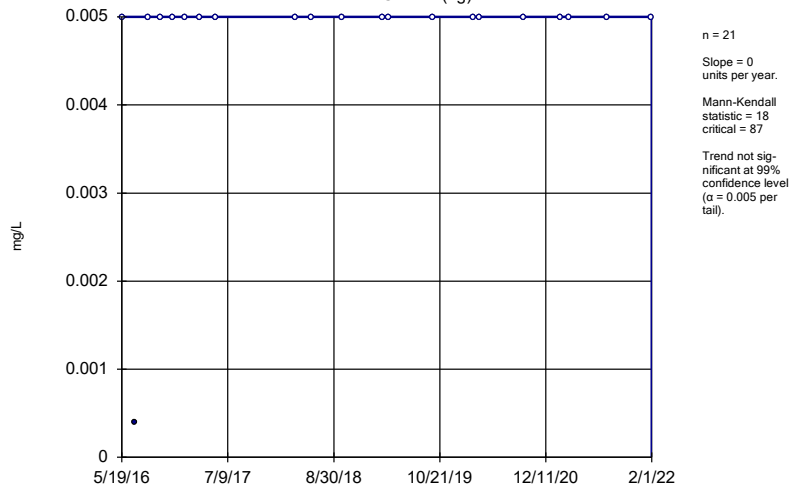
Appendix IV Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 4/26/2022, 4:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-1 (bg)	0	18	87	No	21	95.24	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-2 (bg)	-0.0008265	-47	-87	No	21	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-4 (bg)	0	-81	-87	No	21	71.43	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-42D (bg)	0	3	21	No	8	87.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-43D (bg)	0	0	21	No	8	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-44D (bg)	0	0	21	No	8	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-5 (bg)	0	-14	-87	No	21	23.81	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-6 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.008288	-88	-87	Yes	21	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-33	-0.001496	-2	-21	No	8	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-35	0.001103	1	14	No	6	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

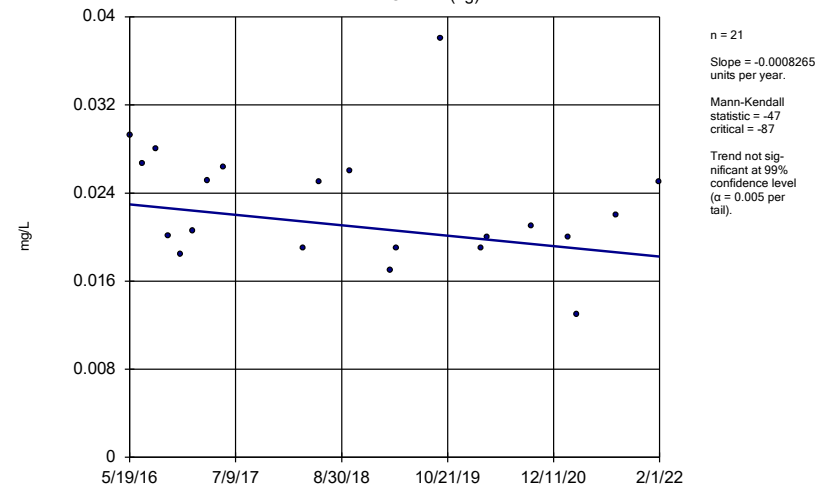
HGWA-1 (bg)



Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

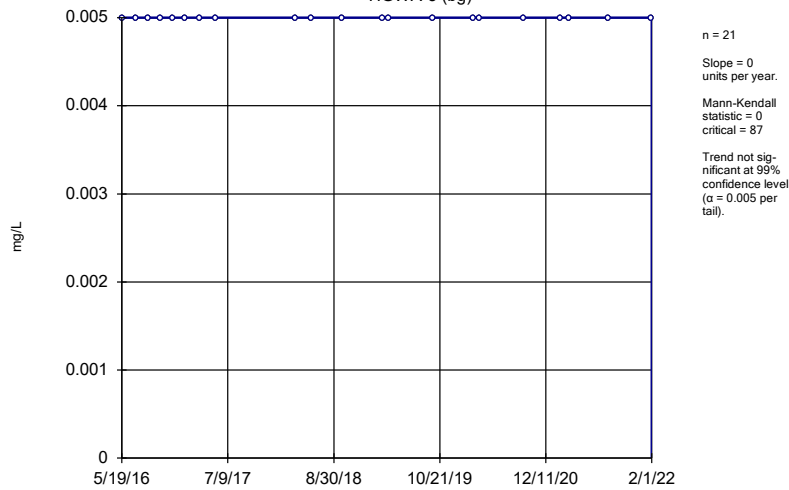
HGWA-2 (bg)



Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

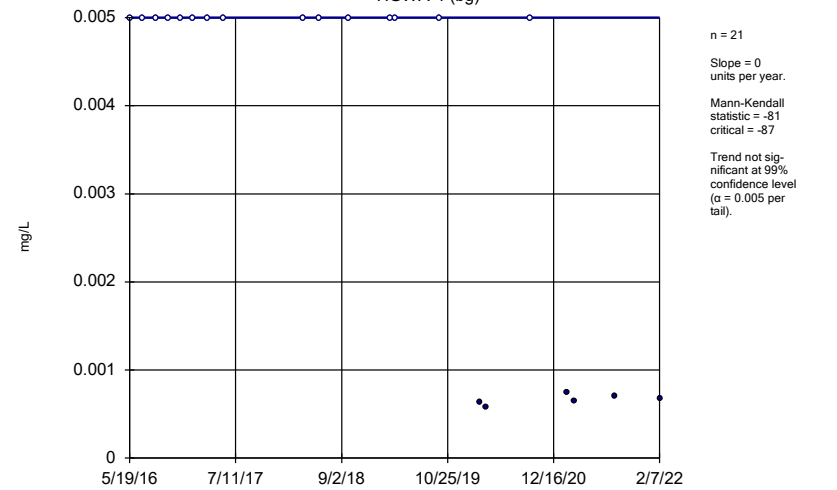
HGWA-3 (bg)



Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

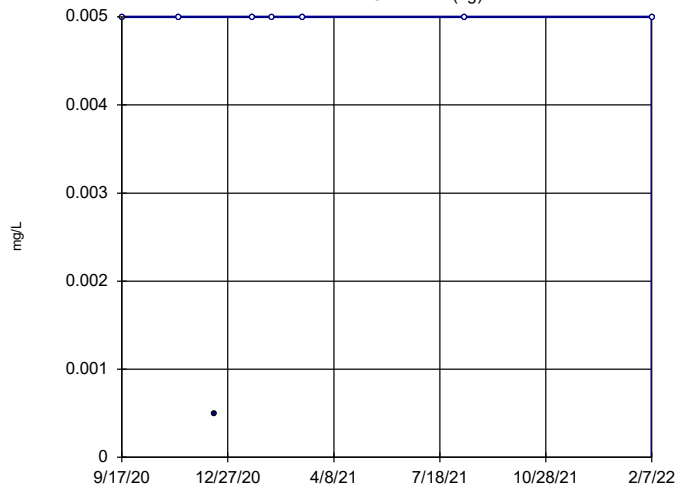
HGWA-4 (bg)



Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

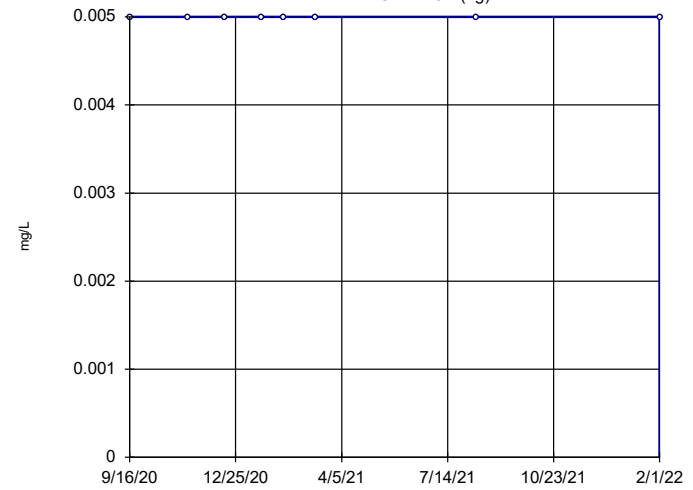


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 3
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

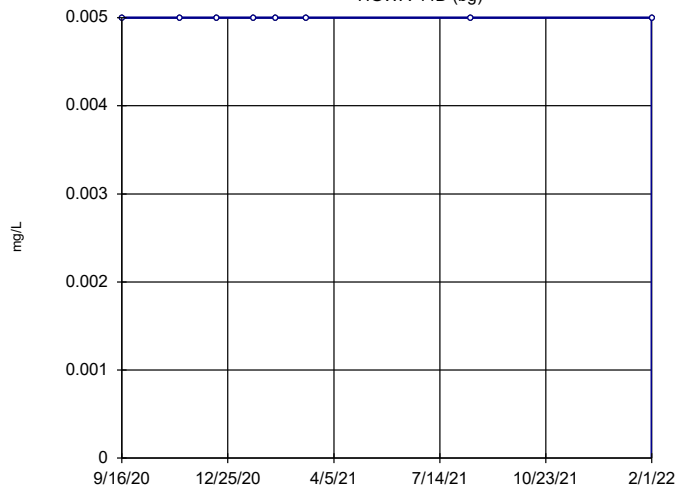


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

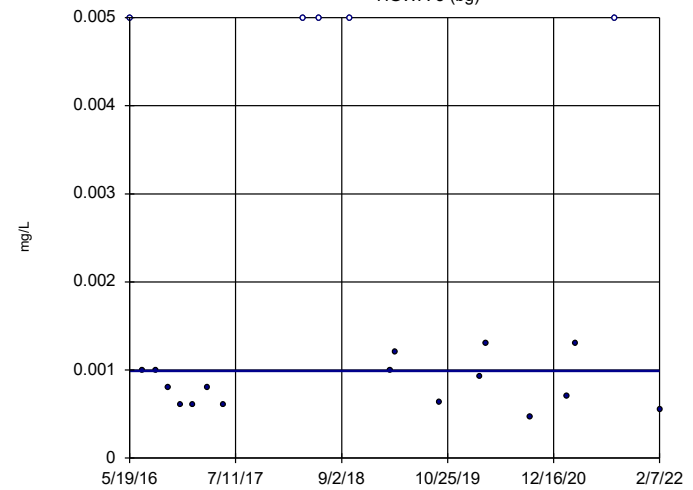


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-2

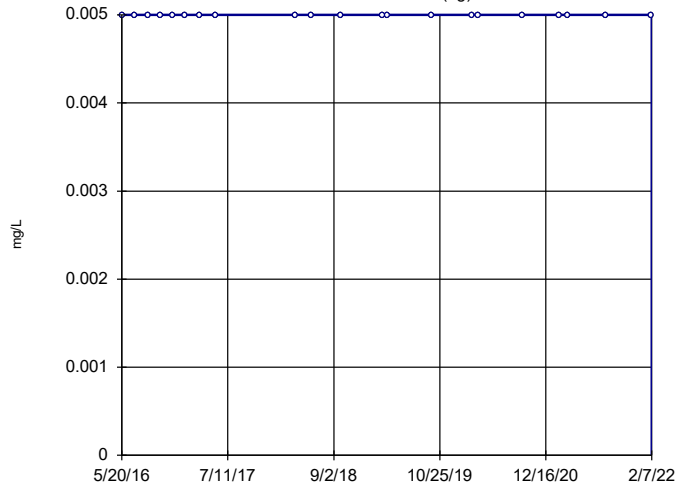
Sen's Slope Estimator

HGWA-5 (bg)



Sen's Slope Estimator

HGWA-6 (bg)

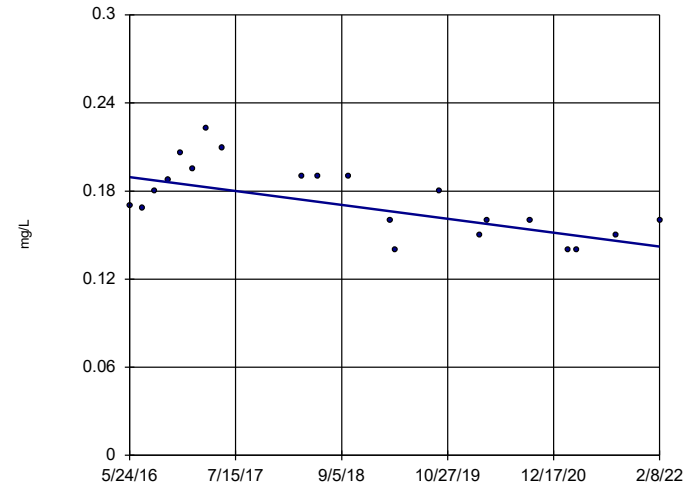


n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

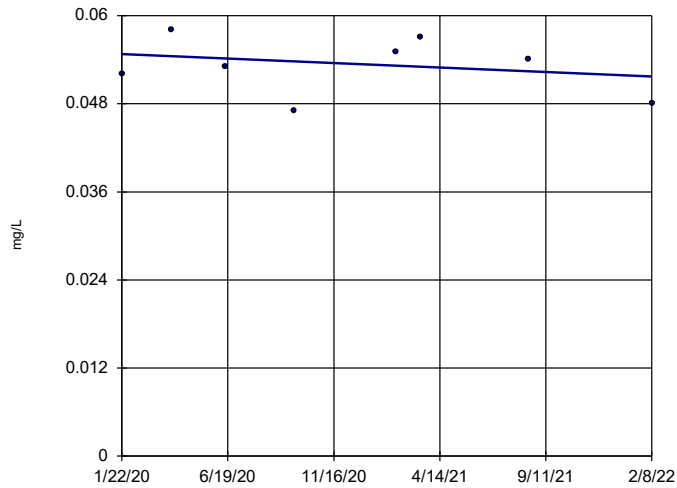


n = 21
 Slope = -0.008288
 units per year.
 Mann-Kendall
 statistic = -88
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

MW-33

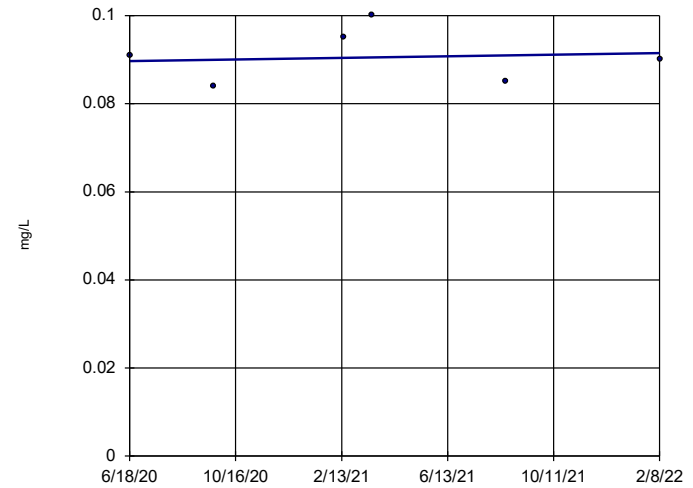


n = 8
 Slope = -0.001496
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

MW-35



n = 6
 Slope = 0.001103
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

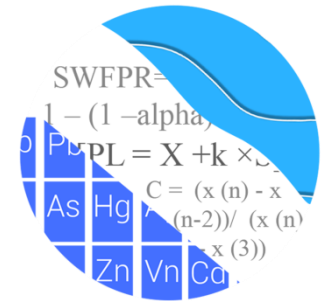
Constituent: Cobalt Analysis Run 4/26/2022 4:56 PM View: Appendix IV Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-2

August 2022

GROUNDWATER STATS CONSULTING

January 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Hammond Ash Pond 2 (AP-2)
Statistical Analysis – August 2022 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2022 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016 and at least 8 samples were collected for all wells except for newer upgradient wells HGWA-42D, HGWA-43D, and HGWA-44D and assessment wells. Sampling began in 2019 for assessment wells MW-21D, MW-22, and MW-23D; and in 2020 for upgradient wells HGWA-42D, HGWA-43D, HGWA-44D, assessment wells MW-34D and MW-37D, and piezometers MW-33 and MW-35.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** HGWA-1, HGWA-2, HGWA-3, HGWA-4, HGWA-5, HGWA-6, HGWA-42D, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18

- **Assessment wells:** MW-21D, MW-22, MW-23D, and MW-37D
- **Piezometers:** MW-33, MW-34D, MW-35, and MW-51

Note that piezometer MW-51 was first sampled during the August 2021 sample event and only 3 samples have been collected. All other piezometers have at least 4 samples. Assessment wells and piezometers are included on time series and box plots for all parameters. When a minimum of 4 samples is available, these wells and piezometers are evaluated using confidence intervals for the Appendix IV constituents.

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 was performed according to the groundwater data screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR program consists of 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) – arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, 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 summary of well/constituent pairs containing 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the case of lithium, historical reporting limits vary among the wells. Therefore, the reporting limit of 0.03 mg/L was substituted across all wells, which is the most recent reporting limit provided by the laboratory.

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. When values in background are flagged as outliers, they may be seen in a lighter

font and as a disconnected symbol on the graphs. No values were flagged as outliers (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

Appendix III parameters are evaluated using Interwell Prediction Limits combined with 1-of-2 resamples for all constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits 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 distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- 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. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect 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. When this step is required, a summary of any adjusted records will be provided.

Statistical Evaluation of Appendix III Parameters – August 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. When values in background are flagged as outliers, they may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged and no values have been flagged as outliers (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for Appendix III parameters using all historical upgradient well data through August 2022 (Figure D). Downgradient measurements were compared to these interwell background limits. Interwell prediction limits use all available upgradient well data to establish a background limit for an individual constituent. The August 2022 sample from each downgradient well is compared to the background limit to determine whether any 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 the resample confirm the initial exceedance, a statistically significant increase (SSI) 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; therefore, no further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed.

A summary table of these findings is provided along with the prediction limits. When the August 2022 compliance data from downgradient wells were compared to interwell prediction limits, exceedances were noted for the following well/constituent pairs:

- Boron: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- Calcium: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- Chloride: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- pH: HGWC-18
- Sulfate: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- TDS: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level 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. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 (upgradient) and HGWC-16
- Calcium: HGWA-3 (upgradient) and HGWC-16
- Chloride: HGWA-44D (upgradient) and HGWC-16
- Sulfate: HGWA-2 (upgradient)
- TDS: HGWC-16 and HGWC-17

Decreasing trends:

- Boron: HGWC-14
- Calcium: HGWA-4 (upgradient)
- Chloride: HGWA-4 (upgradient), HGWA-6 (upgradient), HGWC-14, HGWC-15, and HGWC-18
- pH: HGWA-4 (upgradient)
- TDS: HGWA-4 (upgradient), HGWC-14, and HGWC-15

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – August 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. Well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No values were flagged (Figure C).

Interwell Upper Tolerance Limits

Site specific background limits were calculated as upper one-sided tolerance limits (UTLs) on pooled upgradient interwell data through August 2022 for each of the Appendix IV constituents (Figure F). When varying detection limits were present in upgradient wells, all non-detects were substituted with the most recent reporting limit. As mentioned above, an alternate reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits were 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 to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well and assessment wells with 4 or more samples.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. 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. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Cobalt: HGWC-18, MW-33, and MW-35

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level 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. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- None

Decreasing trends:

- Cobalt: HGWA-4 (upgradient) and HGWC-18

Note that while the trend test identified a statistically significant decreasing trend for cobalt in upgradient well HGWA-4, the slope is displayed on the graph and summary table as zero which represents the median slopes of all the possible pairwise slopes.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton Rayner
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects: Downgradient, Assessment, and Piezometers

Analysis Run 10/24/2022 9:07 AM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Antimony (mg/L)

HGWC-16, HGWC-17, MW-21D, MW-23D, MW-34D, MW-51

Beryllium (mg/L)

HGWC-15, HGWC-16, MW-21D, MW-23D

Cadmium (mg/L)

HGWC-16, MW-21D, MW-37D

Chromium (mg/L)

MW-51

Lead (mg/L)

MW-51

Lithium (mg/L)

HGWC-14

Mercury (mg/L)

HGWC-14, HGWC-15, HGWC-16, HGWC-17, MW-21D, MW-33, MW-34D, MW-37D

Molybdenum (mg/L)

HGWC-14, HGWC-16, HGWC-17, HGWC-18, MW-33, MW-34D, MW-35, MW-51

Selenium (mg/L)

MW-21D, MW-23D, MW-37D

Thallium (mg/L)

HGWC-15, HGWC-16, MW-21D, MW-22, MW-23D, MW-37D, MW-51

Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/21/2022, 8:14 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)	HGWC-14	0.44	n/a	8/11/2022	8.8	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	8/11/2022	2.1	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	8/10/2022	2.2	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	8/10/2022	6.9	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	8/10/2022	8.4	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	145.3	n/a	8/11/2022	519	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-15	145.3	n/a	8/11/2022	210	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-16	145.3	n/a	8/10/2022	207	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-17	145.3	n/a	8/10/2022	316	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-18	145.3	n/a	8/10/2022	433	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Chloride (mg/L)	HGWC-14	44.8	n/a	8/11/2022	147	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-15	44.8	n/a	8/11/2022	89.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-16	44.8	n/a	8/10/2022	98.3	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-17	44.8	n/a	8/10/2022	148	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-18	44.8	n/a	8/10/2022	95.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-18	8.25	4.57	8/10/2022	4.41	Yes	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-14	86.9	n/a	8/11/2022	1200	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-15	86.9	n/a	8/11/2022	365	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-16	86.9	n/a	8/10/2022	206	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-17	86.9	n/a	8/10/2022	423	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-18	86.9	n/a	8/10/2022	946	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	8/11/2022	1060	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	8/11/2022	940	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	8/10/2022	894	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	8/10/2022	1390	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	8/10/2022	1890	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	

Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/21/2022, 8:14 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)	HGWC-14	0.44	n/a	8/11/2022	8.8	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	8/11/2022	2.1	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	8/10/2022	2.2	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	8/10/2022	6.9	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	8/10/2022	8.4	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	145.3	n/a	8/11/2022	519	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-15	145.3	n/a	8/11/2022	210	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-16	145.3	n/a	8/10/2022	207	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-17	145.3	n/a	8/10/2022	316	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-18	145.3	n/a	8/10/2022	433	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Chloride (mg/L)	HGWC-14	44.8	n/a	8/11/2022	147	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-15	44.8	n/a	8/11/2022	89.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-16	44.8	n/a	8/10/2022	98.3	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-17	44.8	n/a	8/10/2022	148	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-18	44.8	n/a	8/10/2022	95.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-14	8.25	4.57	8/11/2022	4.93	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-15	8.25	4.57	8/11/2022	6.29	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-16	8.25	4.57	8/10/2022	7.09	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-17	8.25	4.57	8/10/2022	6.29	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-18	8.25	4.57	8/10/2022	4.41	Yes	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-14	0.96	n/a	8/11/2022	0.085J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-15	0.96	n/a	8/11/2022	0.097J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-16	0.96	n/a	8/10/2022	0.054J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-17	0.96	n/a	8/10/2022	0.086J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-18	0.96	n/a	8/10/2022	0.3	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-14	86.9	n/a	8/11/2022	1200	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-15	86.9	n/a	8/11/2022	365	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-16	86.9	n/a	8/10/2022	206	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-17	86.9	n/a	8/10/2022	423	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-18	86.9	n/a	8/10/2022	946	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	8/11/2022	1060	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	8/11/2022	940	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	8/10/2022	894	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	8/10/2022	1390	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	8/10/2022	1890	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	

Appendix III Trend Test - Prediction Limit Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:49 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-2 (bg)	0.002545	111	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.225	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2371	111	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.364	91	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.413	-98	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.73	133	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.3871	-130	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	11.55	24	21	Yes	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.0842	-75	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-78.91	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.58	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.69	153	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-36.35	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.3006	-166	-98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.619	101	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-29.05	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-235.4	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-57.74	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.76	135	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	61.52	104	74	Yes	19	5.263	n/a	n/a	0.01	NP

Appendix III Trend Test - Prediction Limit Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:49 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0004986	-25	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002545	111	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.0002999	14	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-4 (bg)	-0.0004376	-18	-74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-42D (bg)	-0.001755	-4	-21	No	8	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.01038	-16	-21	No	8	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.07193	13	21	No	8	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-5 (bg)	0.0002744	22	74	No	19	15.79	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-6 (bg)	-0.0003871	-31	-74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.225	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-15	0.02931	24	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2371	111	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-17	0.193	39	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-18	-0.2033	-35	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.19	56	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.7505	51	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.364	91	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.413	-98	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-42D (bg)	0.4826	4	21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.927	-14	-21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-5.744	-14	-21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-5 (bg)	0.04382	2	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-6 (bg)	0.4391	40	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-14	-7.037	-31	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-15	1.872	23	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.73	133	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-17	15.94	72	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-18	7.449	48	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6168	52	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.104	-27	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1165	-71	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.3871	-130	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-42D (bg)	-0.3323	-5	-21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	-0.02897	-3	-21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	11.55	24	21	Yes	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-5 (bg)	-0.06895	-48	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.0842	-75	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-78.91	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.58	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.69	153	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-17	8.907	63	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-36.35	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-1 (bg)	-0.02032	-58	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-2 (bg)	-0.05778	-74	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-3 (bg)	-0.00625	-11	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.3006	-166	-98	Yes	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-42D (bg)	0.07168	11	25	No	9	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-43D (bg)	0.007636	2	25	No	9	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-44D (bg)	0.0535	13	25	No	9	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-5 (bg)	-0.03638	-87	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-6 (bg)	-0.005287	-11	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWC-18	-0.02234	-86	-98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.506	26	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.619	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	0.648	45	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-4 (bg)	-0.3516	-53	-74	No	19	15.79	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-42D (bg)	0.07923	1	21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-1.657	-20	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	4.085	12	21	No	8	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-5 (bg)	-0.4294	-42	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-6 (bg)	-0.2041	-34	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-14	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-15	-13.02	-48	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-16	1.567	36	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-17	1.305	4	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-18	15.66	55	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.454	5	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	1.249	6	74	No	19	0	n/a	n/a	0.01	NP

Appendix III Trend Test - Prediction Limit Exceedances - All Results Page 2

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:49 AM

<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>
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	0.361	8	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-29.05	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-42D (bg)	2.231	2	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-11.77	-8	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	59.96	18	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-5 (bg)	-3.156	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-6 (bg)	-1.315	-31	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-235.4	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-57.74	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.76	135	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	61.52	104	74	Yes	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-18	-24.33	-47	-74	No	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:55 AM

Constituent	Upper Lim.	Bg N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	126	n/a	81.75	n/a	n/a	0.00156	NP Inter(NDs)
Arsenic (mg/L)	0.005	159	n/a	80.5	n/a	n/a	0.0002871	NP Inter(NDs)
Barium (mg/L)	0.46	159	n/a	0	n/a	n/a	0.0002871	NP Inter(normality)
Beryllium (mg/L)	0.0005	147	n/a	82.99	n/a	n/a	0.0005313	NP Inter(NDs)
Cadmium (mg/L)	0.0005	159	n/a	92.45	n/a	n/a	0.0002871	NP Inter(NDs)
Chromium (mg/L)	0.019	147	n/a	84.35	n/a	n/a	0.0005313	NP Inter(NDs)
Cobalt (mg/L)	0.038	159	n/a	69.81	n/a	n/a	0.0002871	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.624	158	0.2746	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.96	165	n/a	32.73	n/a	n/a	0.0002111	NP Inter(normality)
Lead (mg/L)	0.001	147	n/a	73.47	n/a	n/a	0.0005313	NP Inter(normality)
Lithium (mg/L)	0.048	157	n/a	17.83	n/a	n/a	0.0003181	NP Inter(normality)
Mercury (mg/L)	0.0002	103	n/a	92.23	n/a	n/a	0.0005076	NP Inter(NDs)
Molybdenum (mg/L)	0.01	145	n/a	84.14	n/a	n/a	0.0005887	NP Inter(NDs)
Selenium (mg/L)	0.005	159	n/a	98.11	n/a	n/a	0.0002871	NP Inter(NDs)
Thallium (mg/L)	0.001	159	n/a	98.74	n/a	n/a	0.0002871	NP Inter(NDs)

PLANT HAMMOND AP-2 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		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0019	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.62	5
Fluoride, Total (mg/L)	4		0.96	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.048	0.048
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	HGWC-18	0.1858	0.1604	0.038	Yes	22	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05642	0.04802	0.038	Yes	9	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09723	0.08191	0.038	Yes	7	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-14	0.003	0.001	0.006	No	16	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-15	0.003	0.002	0.006	No	16	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-16	0.003	0.003	0.006	No	16	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-17	0.003	0.003	0.006	No	16	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-18	0.003	0.0008	0.006	No	16	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-21D	0.003	0.003	0.006	No	7	100	None	No	0.008	NP (NDs)
Antimony (mg/L)	MW-22	0.003	0.0016	0.006	No	7	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	MW-23D	0.003	0.003	0.006	No	7	100	None	No	0.008	NP (NDs)
Antimony (mg/L)	MW-33	0.003	0.00046	0.006	No	5	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	MW-35	0.003	0.00041	0.006	No	5	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	MW-37D	0.003	0.00079	0.006	No	5	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	HGWC-14	0.005935	0.004209	0.01	No	22	13.64	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-15	0.005	0.0008	0.01	No	22	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-16	0.005	0.0012	0.01	No	22	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-17	0.005	0.0017	0.01	No	22	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-18	0.006801	0.004876	0.01	No	22	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-21D	0.005	0.001	0.01	No	12	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-22	0.005	0.005	0.01	No	11	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-23D	0.005	0.001	0.01	No	11	81.82	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-33	0.007397	0.004228	0.01	No	8	12.5	None	No	0.01	Param.
Arsenic (mg/L)	MW-34D	0.006198	0.0004025	0.01	No	5	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-35	0.006195	0.003952	0.01	No	7	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	MW-37D	0.005	0.00095	0.01	No	7	57.14	Kaplan-Meier	No	0.008	NP (NDs)
Barium (mg/L)	HGWC-14	0.0228	0.019	2	No	22	4.545	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-15	0.02702	0.01785	2	No	22	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-16	0.1113	0.1002	2	No	22	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-17	0.02608	0.02341	2	No	22	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-18	0.0336	0.028	2	No	22	4.545	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21D	0.0682	0.04196	2	No	12	0	None	No	0.01	Param.
Barium (mg/L)	MW-22	0.03166	0.01579	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.06705	0.05168	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.02754	0.02096	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	MW-34D	0.04806	0.03314	2	No	5	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.03059	0.02227	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	MW-37D	0.1643	0.1039	2	No	7	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	HGWC-14	0.0005198	0.0004292	0.004	No	20	10	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-15	0.0005	0.0005	0.004	No	20	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-16	0.0005	0.0005	0.004	No	20	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-17	0.0005	0.000067	0.004	No	20	85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-18	0.003411	0.002807	0.004	No	20	5	None	x^2	0.01	Param.
Beryllium (mg/L)	MW-21D	0.0005	0.0005	0.004	No	12	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-22	0.0005	0.000062	0.004	No	11	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-23D	0.0005	0.0005	0.004	No	11	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-33	0.001079	0.0008538	0.004	No	8	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-34D	0.0005	0.000065	0.004	No	5	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	MW-35	0.0007247	0.0003896	0.004	No	7	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-37D	0.0005	0.00012	0.004	No	7	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	HGWC-14	0.0005	0.00012	0.005	No	22	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-15	0.002134	0.001451	0.005	No	22	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	HGWC-16	0.0005	0.0005	0.005	No	22	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-17	0.0005	0.00007	0.005	No	22	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-18	0.002264	0.00165	0.005	No	22	4.545	None	No	0.01	Param.
Cadmium (mg/L)	MW-21D	0.0005	0.0005	0.005	No	12	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-22	0.002113	0.001658	0.005	No	11	0	None	x^5	0.01	Param.
Cadmium (mg/L)	MW-23D	0.0004778	0.000163	0.005	No	11	45.45	Kaplan-Meier	x^2	0.01	Param.
Cadmium (mg/L)	MW-33	0.0005	0.00013	0.005	No	8	12.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	MW-34D	0.0007001	0.00009987	0.005	No	5	40	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MW-35	0.001856	0.0008094	0.005	No	7	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-37D	0.0005	0.0005	0.005	No	7	100	None	No	0.008	NP (NDs)
Chromium (mg/L)	HGWC-14	0.005	0.00066	0.1	No	20	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-15	0.005	0.0012	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-16	0.005	0.0021	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-17	0.005	0.0018	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-18	0.005	0.00063	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-21D	0.005	0.00074	0.1	No	12	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-22	0.005	0.00075	0.1	No	11	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-23D	0.005	0.00086	0.1	No	11	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-33	0.005	0.00069	0.1	No	8	87.5	None	No	0.004	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-34D	0.0059	0.005	0.1	No	5	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	MW-35	0.005	0.00079	0.1	No	7	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-37D	0.005	0.0014	0.1	No	7	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	HGWC-14	0.0309	0.02482	0.038	No	22	4.545	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-15	0.04361	0.02544	0.038	No	22	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-16	0.005	0.00037	0.038	No	22	90.91	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-17	0.01588	0.01333	0.038	No	22	0	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-18	0.1858	0.1604	0.038	Yes	22	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-21D	0.005	0.00034	0.038	No	12	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-22	0.03716	0.02284	0.038	No	11	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-23D	0.001153	0.0009394	0.038	No	11	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05642	0.04802	0.038	Yes	9	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-34D	0.01159	0.00401	0.038	No	5	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09723	0.08191	0.038	Yes	7	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-37D	0.005	0.00048	0.038	No	7	71.43	None	No	0.008	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	HGWC-14	1.581	1.095	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-15	0.8879	0.4543	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-16	0.9354	0.4974	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-17	1.005	0.656	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-18	2.188	1.629	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21D	1.074	0.4765	5	No	12	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.106	0.3733	5	No	11	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	1.072	0.5716	5	No	11	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-33	2.454	0.9906	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-34D	1.492	0.09339	5	No	5	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-35	3.014	0.6072	5	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-37D	1.503	0.1049	5	No	7	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-14	0.1966	0.07897	4	No	23	21.74	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-15	0.12	0.097	4	No	23	43.48	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-16	0.23	0.059	4	No	23	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	HGWC-17	0.16	0.062	4	No	23	30.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-18	0.6201	0.3929	4	No	23	4.348	None	No	0.01	Param.
Fluoride (mg/L)	MW-21D	0.1	0.1	4	No	12	83.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-22	0.13	0.1	4	No	11	72.73	None	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-23D	0.14	0.1	4	No	11	72.73	None	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-33	0.2803	0.1377	4	No	9	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-34D	0.09123	0.04877	4	No	5	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-35	0.09925	0.05303	4	No	7	14.29	None	No	0.01	Param.
Fluoride (mg/L)	MW-37D	0.09129	0.04929	4	No	7	0	None	No	0.01	Param.
Lead (mg/L)	HGWC-14	0.001684	0.001358	0.015	No	20	10	None	No	0.01	Param.
Lead (mg/L)	HGWC-15	0.001	0.001	0.015	No	20	75	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-16	0.001	0.0001	0.015	No	20	55	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-17	0.001	0.000089	0.015	No	20	60	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-18	0.001416	0.001152	0.015	No	20	5	None	No	0.01	Param.
Lead (mg/L)	MW-21D	0.001	0.000048	0.015	No	12	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-22	0.001	0.000094	0.015	No	11	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	MW-23D	0.001	0.00016	0.015	No	11	81.82	None	No	0.006	NP (NDs)
Lead (mg/L)	MW-33	0.001785	0.001384	0.015	No	8	12.5	None	x^4	0.01	Param.
Lead (mg/L)	MW-34D	0.001	0.00087	0.015	No	5	80	None	No	0.031	NP (NDs)
Lead (mg/L)	MW-35	0.001	0.00016	0.015	No	7	42.86	None	No	0.008	NP (normality)
Lead (mg/L)	MW-37D	0.0017	0.000082	0.015	No	7	57.14	None	No	0.008	NP (NDs)
Lithium (mg/L)	HGWC-14	0.03	0.03	0.048	No	22	100	None	No	0.01	NP (NDs)
Lithium (mg/L)	HGWC-15	0.03	0.0021	0.048	No	22	27.27	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-16	0.0042	0.0029	0.048	No	21	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-17	0.03	0.0011	0.048	No	21	47.62	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-18	0.01439	0.01219	0.048	No	21	0	None	No	0.01	Param.
Lithium (mg/L)	MW-21D	0.02493	0.0214	0.048	No	12	0	None	No	0.01	Param.
Lithium (mg/L)	MW-22	0.0015	0.0011	0.048	No	11	0	None	No	0.006	NP (normality)
Lithium (mg/L)	MW-23D	0.0026	0.002127	0.048	No	11	0	None	No	0.01	Param.
Lithium (mg/L)	MW-33	0.001162	0.0008952	0.048	No	7	0	None	No	0.01	Param.
Lithium (mg/L)	MW-34D	0.003048	0.0001522	0.048	No	4	0	None	No	0.01	Param.
Lithium (mg/L)	MW-35	0.03	0.0036	0.048	No	7	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	MW-37D	0.03755	0.02812	0.048	No	6	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-14	0.0002	0.0002	0.002	No	14	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-15	0.0002	0.0002	0.002	No	14	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-16	0.0002	0.0002	0.002	No	13	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-17	0.0002	0.0002	0.002	No	13	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-18	0.0002	0.00006	0.002	No	13	61.54	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	MW-21D	0.0002	0.0002	0.002	No	5	100	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-22	0.0002	0.00016	0.002	No	5	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00017	0.002	No	5	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	HGWC-14	0.01	0.01	0.1	No	20	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-15	0.01	0.0007	0.1	No	20	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-16	0.01	0.01	0.1	No	19	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-17	0.01	0.01	0.1	No	19	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-18	0.01	0.01	0.1	No	19	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-21D	0.03062	0.017	0.1	No	12	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MW-22	0.01	0.01	0.1	No	11	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.004878	0.002246	0.1	No	11	9.091	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-33	0.01	0.01	0.1	No	7	100	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MW-34D	0.01	0.01	0.1	No	4	100	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	MW-35	0.01	0.01	0.1	No	7	100	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MW-37D	0.0228	0.005969	0.1	No	6	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-14	0.01222	0.006513	0.05	No	22	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-15	0.005	0.0041	0.05	No	22	81.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-16	0.005	0.000089	0.05	No	22	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-17	0.005	0.0023	0.05	No	22	86.36	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-18	0.03142	0.01619	0.05	No	22	4.545	None	No	0.01	Param.
Selenium (mg/L)	MW-21D	0.005	0.005	0.05	No	12	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-22	0.005	0.005	0.05	No	11	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	MW-23D	0.005	0.005	0.05	No	11	100	None	No	0.006	NP (NDs)
Selenium (mg/L)	MW-33	0.02786	0.006421	0.05	No	8	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	MW-34D	0.005	0.0025	0.05	No	5	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	MW-35	0.02485	0.007435	0.05	No	7	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	MW-37D	0.005	0.005	0.05	No	7	100	None	No	0.008	NP (NDs)
Thallium (mg/L)	HGWC-14	0.0003064	0.0002737	0.002	No	22	0	None	ln(x)	0.01	Param.
Thallium (mg/L)	HGWC-15	0.001	0.001	0.002	No	22	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-16	0.001	0.001	0.002	No	22	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-17	0.001	0.00013	0.002	No	22	68.18	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-18	0.001	0.00016	0.002	No	22	45.45	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-21D	0.001	0.001	0.002	No	12	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-22	0.001	0.001	0.002	No	11	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-23D	0.001	0.001	0.002	No	11	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-33	0.001	0.00025	0.002	No	8	12.5	None	No	0.004	NP (normality)
Thallium (mg/L)	MW-34D	0.001	0.00015	0.002	No	5	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	MW-35	0.001	0.00013	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	MW-37D	0.001	0.001	0.002	No	7	100	None	No	0.008	NP (NDs)

Appendix IV Trend Test - Confidence Interval Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:53 AM

<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>
Cobalt (mg/L)	HGWA-4 (bg)	0	-96	-92	Yes	22	68.18	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.007213	-95	-92	Yes	22	0	n/a	n/a	0.01	NP

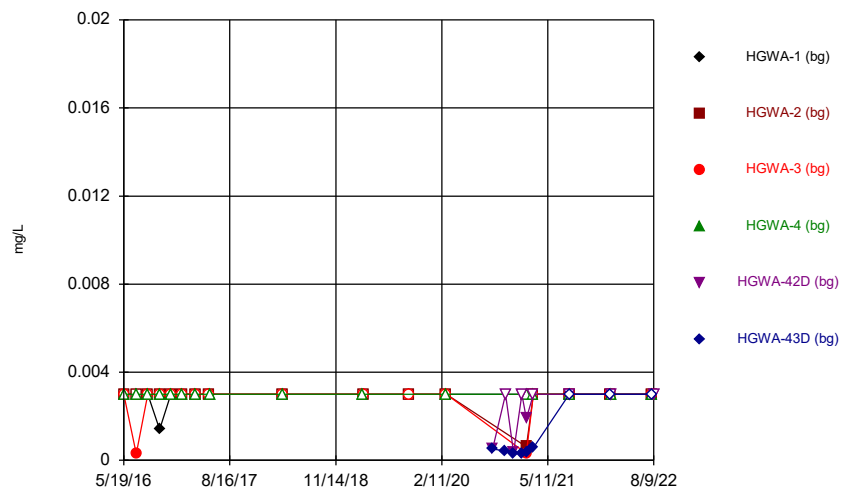
Appendix IV Trend Test - Confidence Interval Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-1 (bg)	0	-1	-92	No	22	90.91	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-2 (bg)	-0.0005211	-44	-92	No	22	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-3 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-4 (bg)	0	-96	-92	Yes	22	68.18	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-42D (bg)	0	4	25	No	9	88.89	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-43D (bg)	0	0	25	No	9	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-44D (bg)	0	0	25	No	9	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-5 (bg)	0	2	92	No	22	27.27	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-6 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.007213	-95	-92	Yes	22	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-33	-0.002625	-10	-25	No	9	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-35	-0.003059	-5	-18	No	7	0	n/a	n/a	0.01	NP

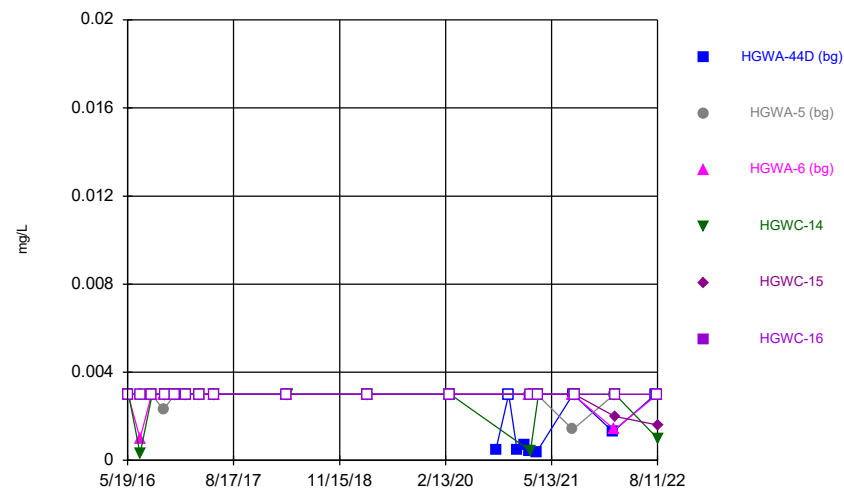
FIGURE A.

Time Series



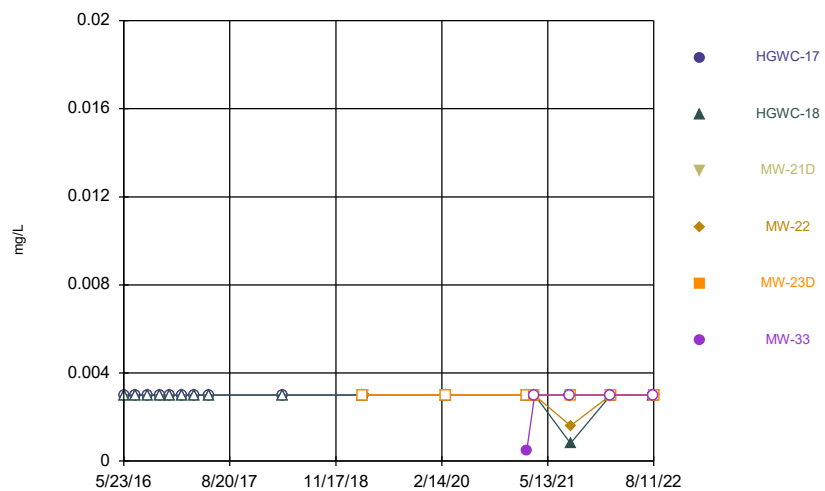
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Time Series



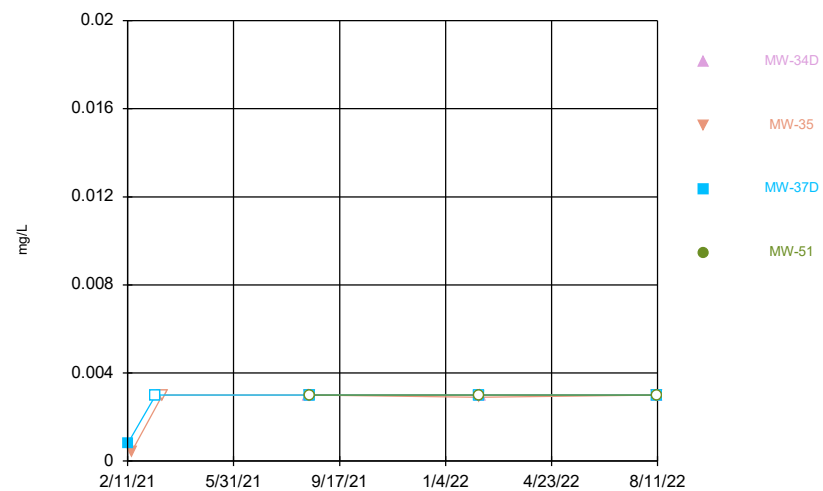
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Time Series



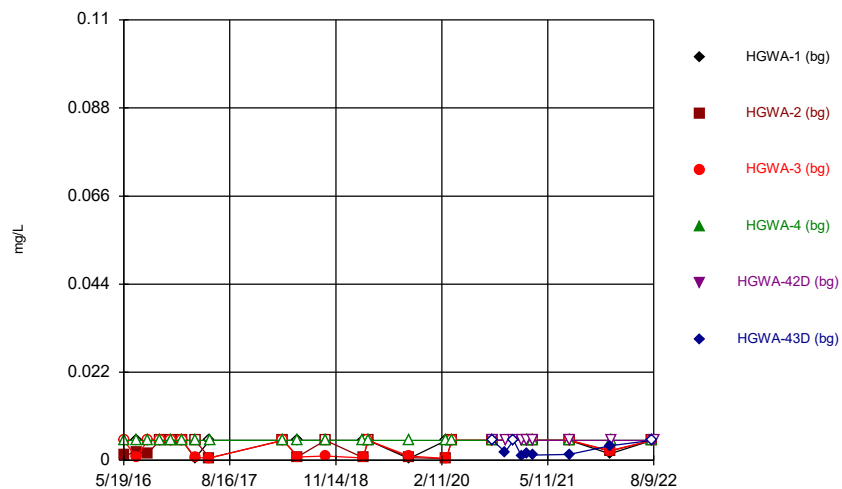
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Time Series



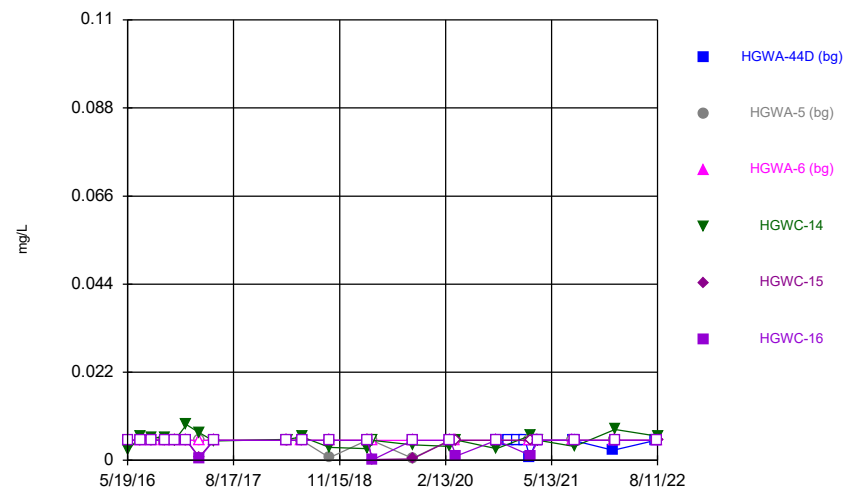
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Time Series



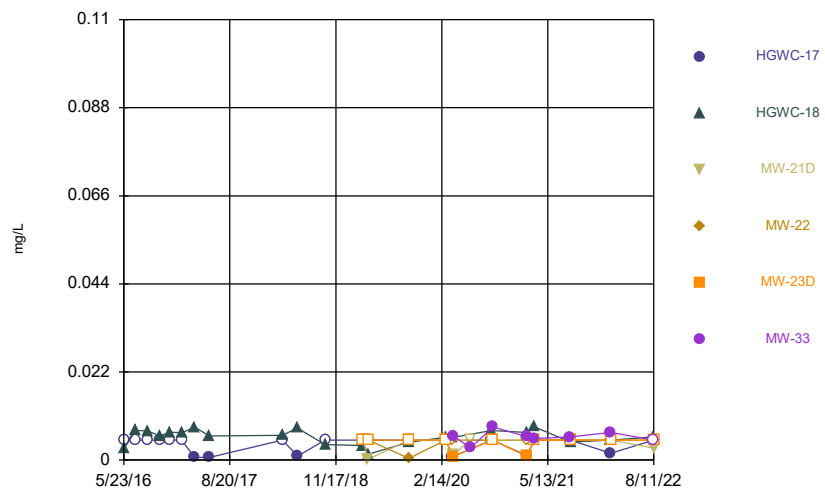
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Time Series



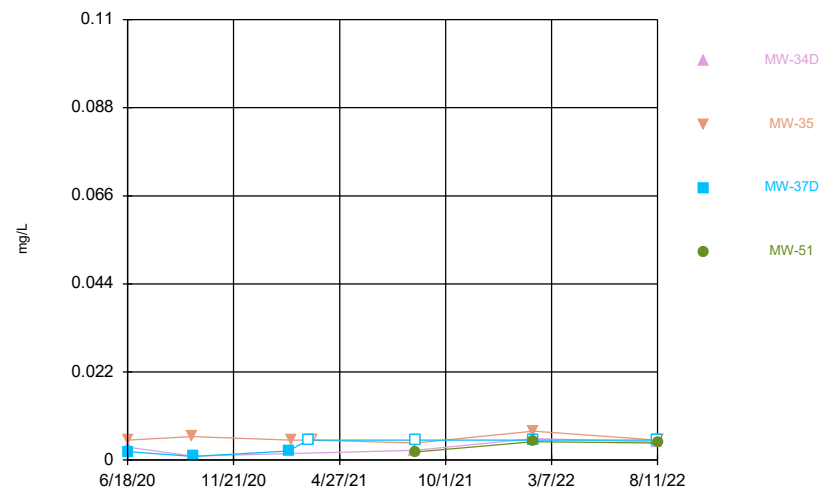
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



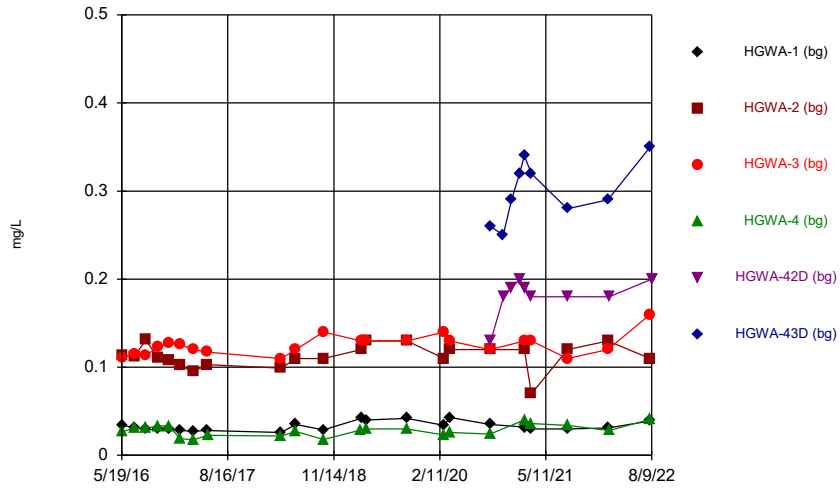
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Time Series



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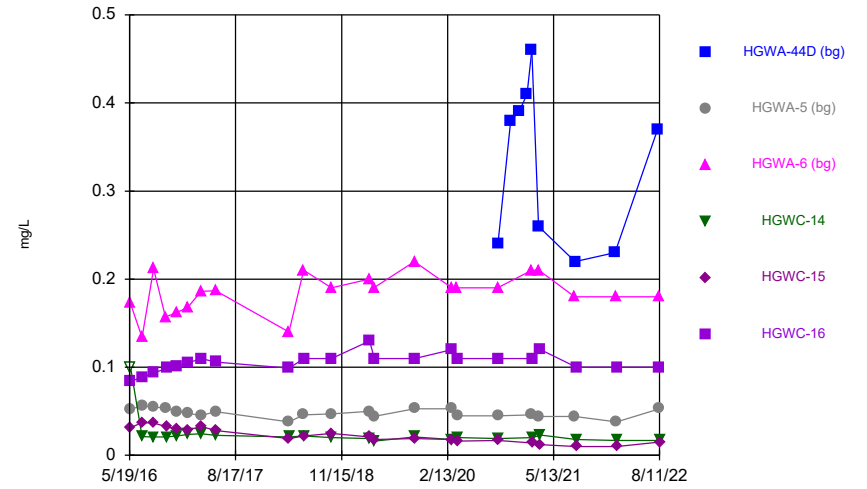
Time Series



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Hollow symbols indicate censored values.

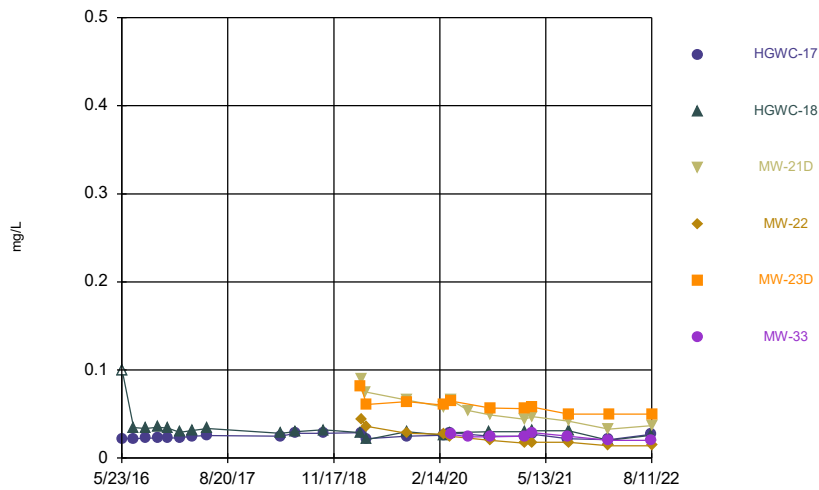
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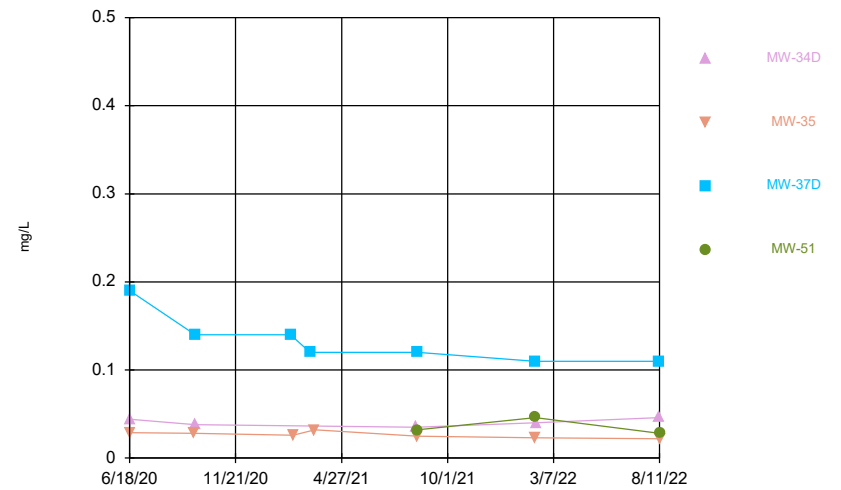
Hollow symbols indicate censored values.

Time Series



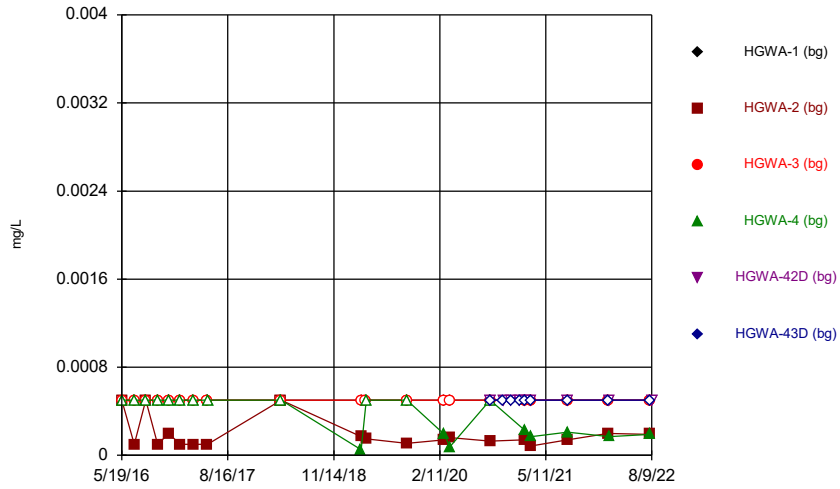
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Time Series



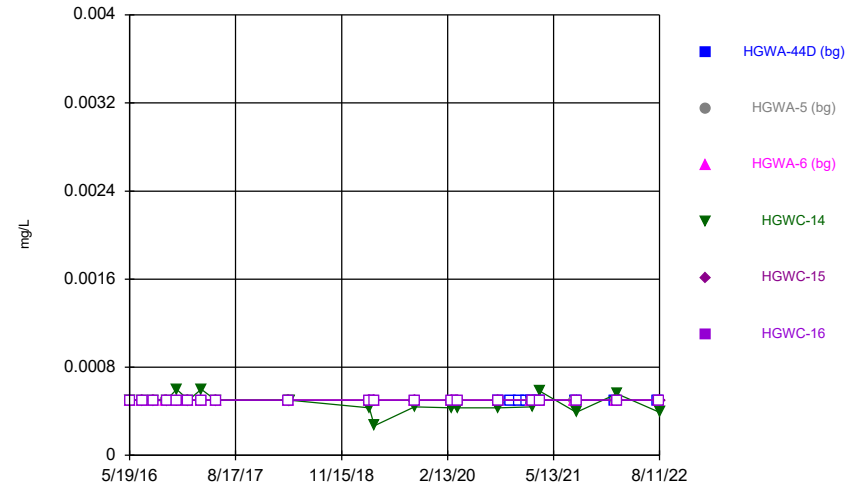
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



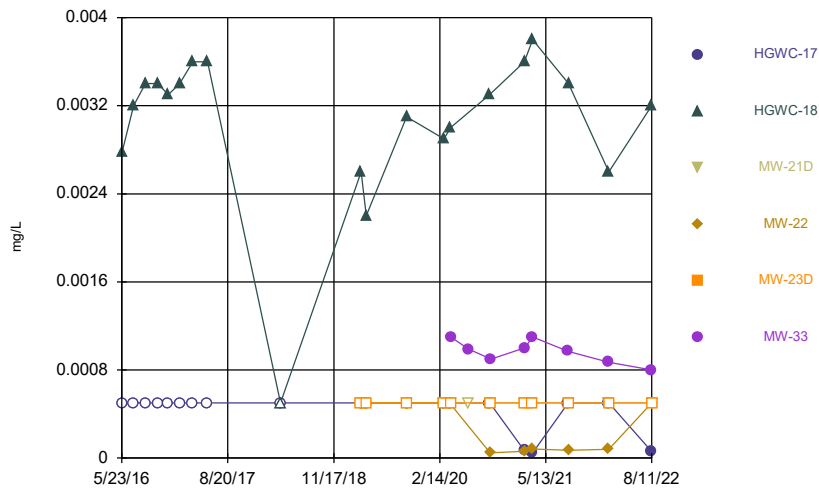
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Time Series



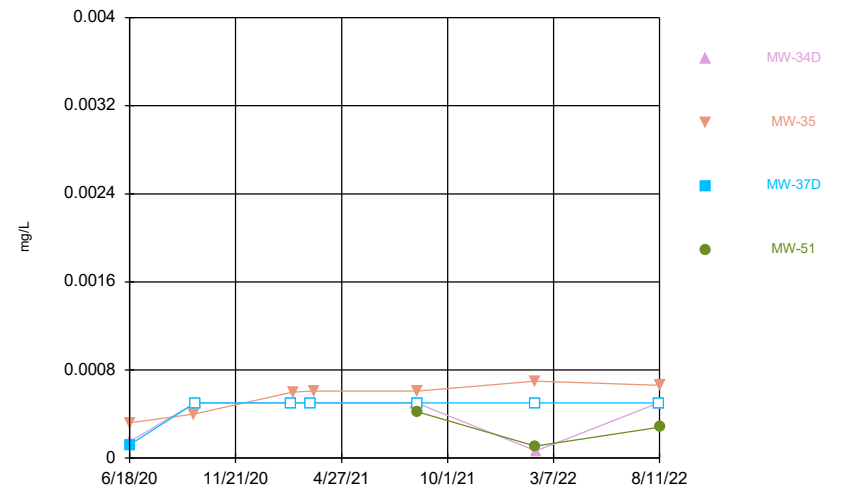
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



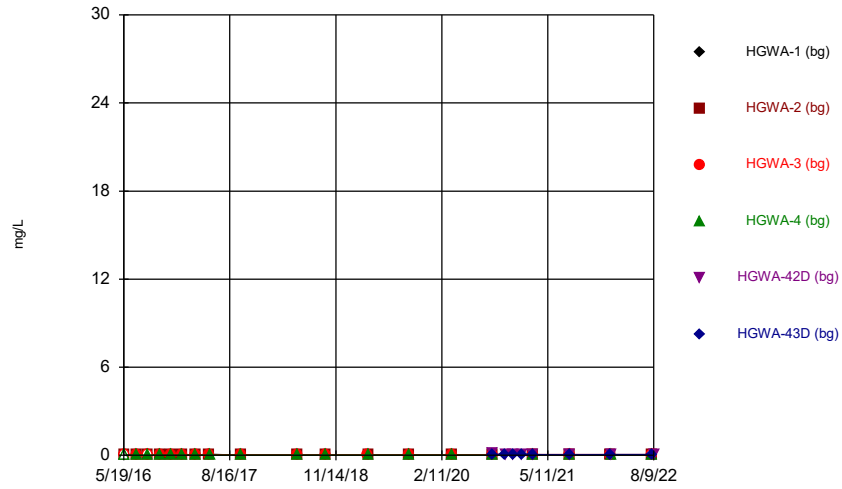
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Time Series



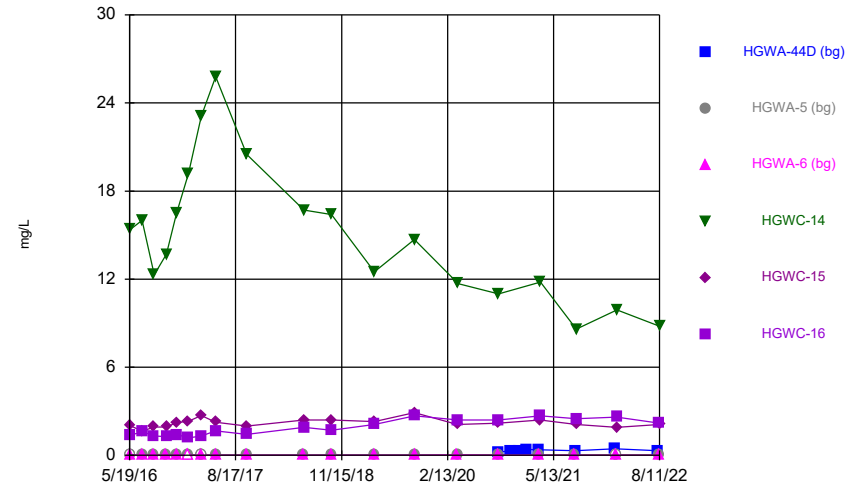
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



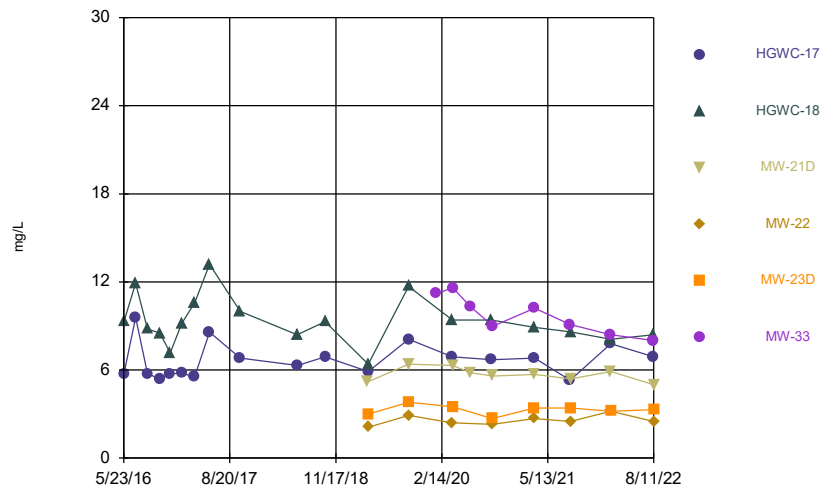
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Time Series



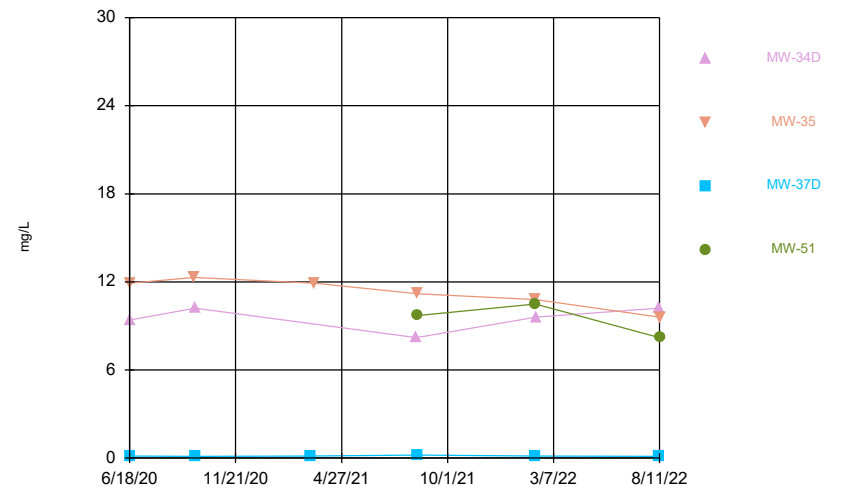
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Time Series



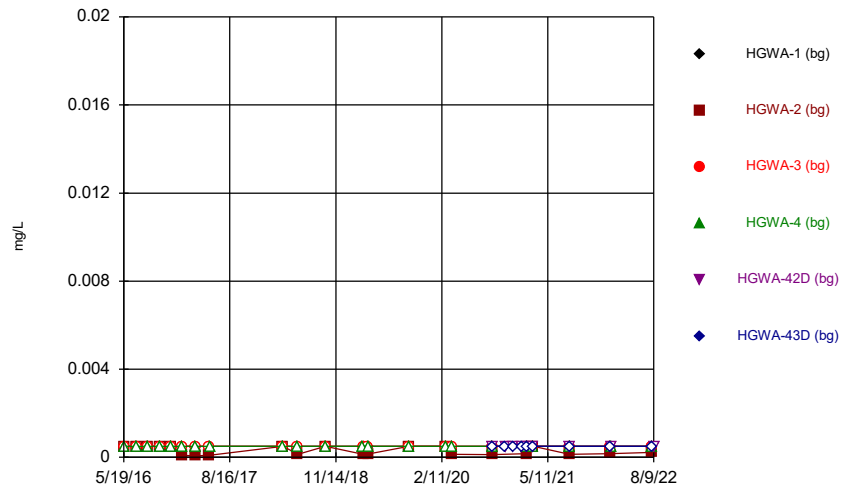
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Time Series



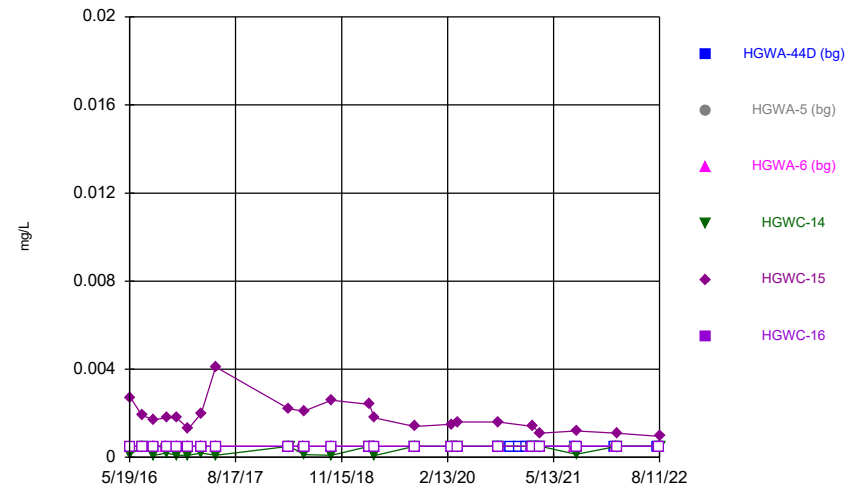
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Time Series



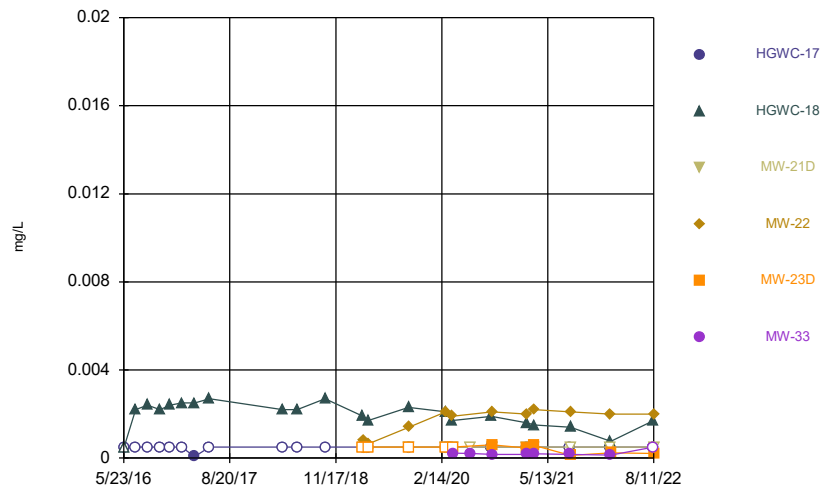
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Time Series



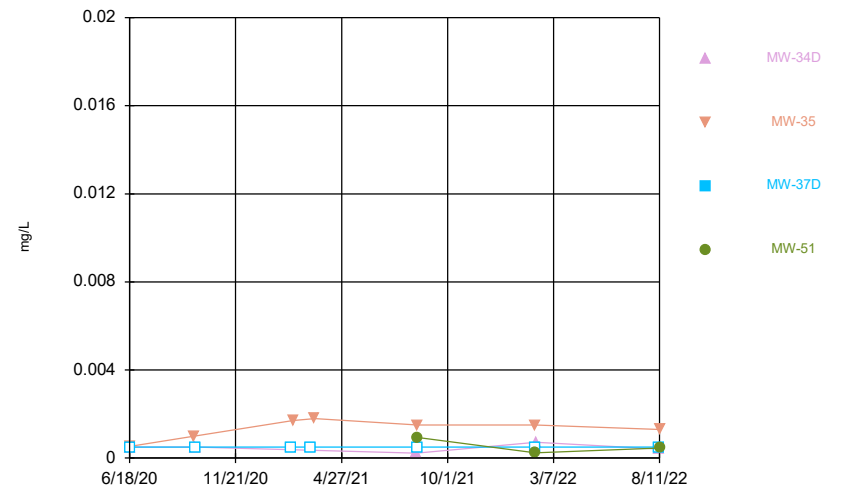
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Time Series



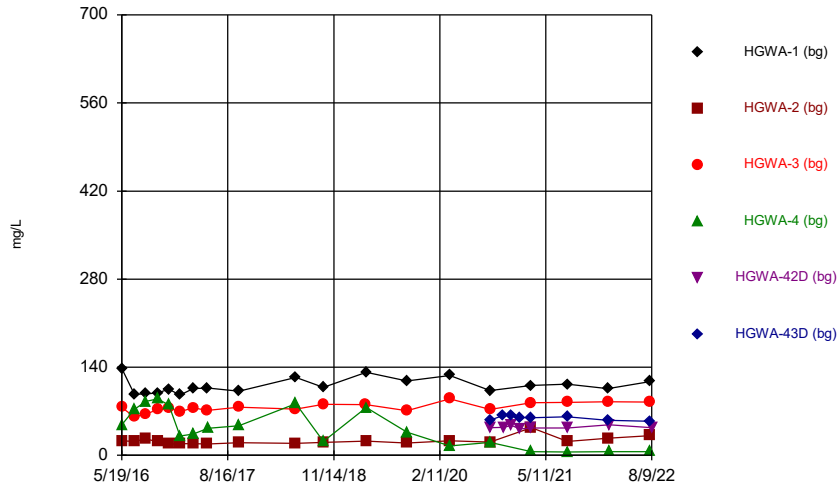
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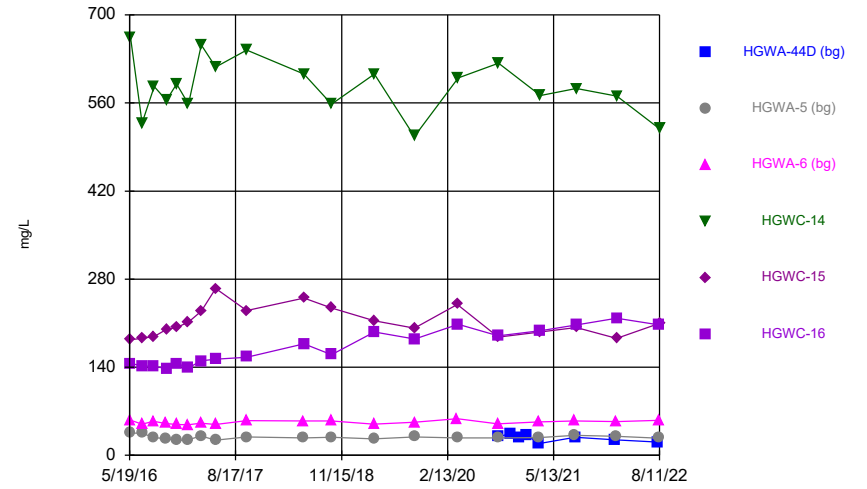
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Time Series



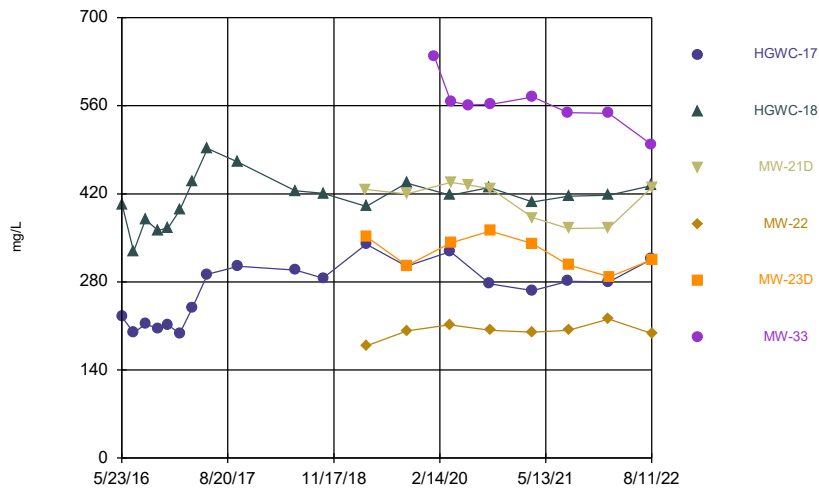
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



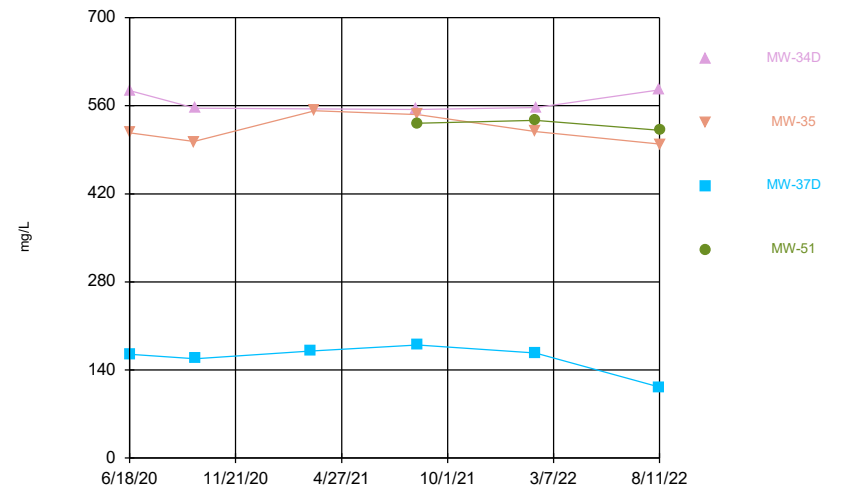
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Time Series



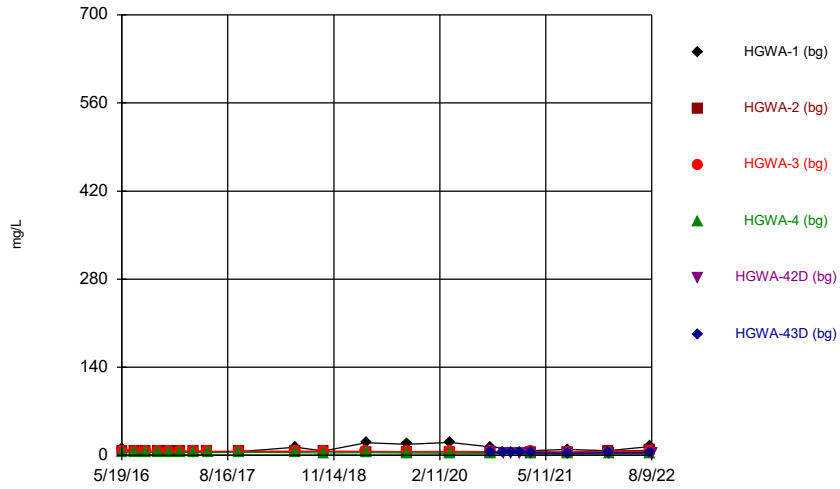
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Time Series



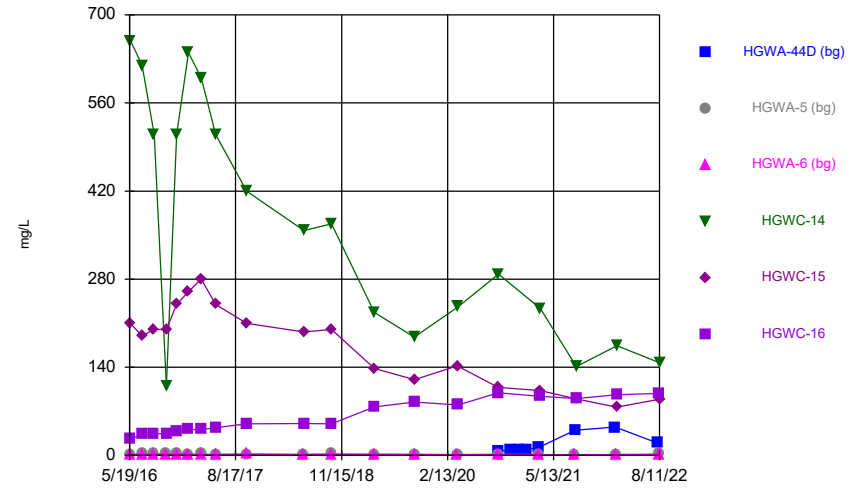
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Time Series



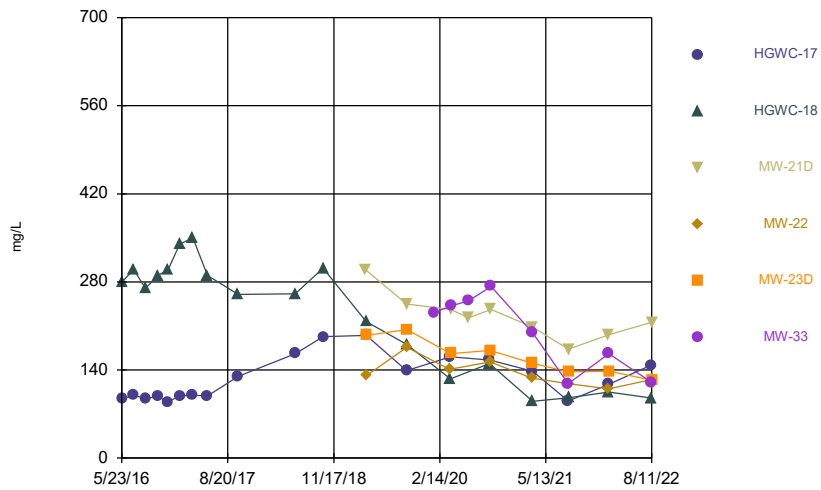
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Time Series



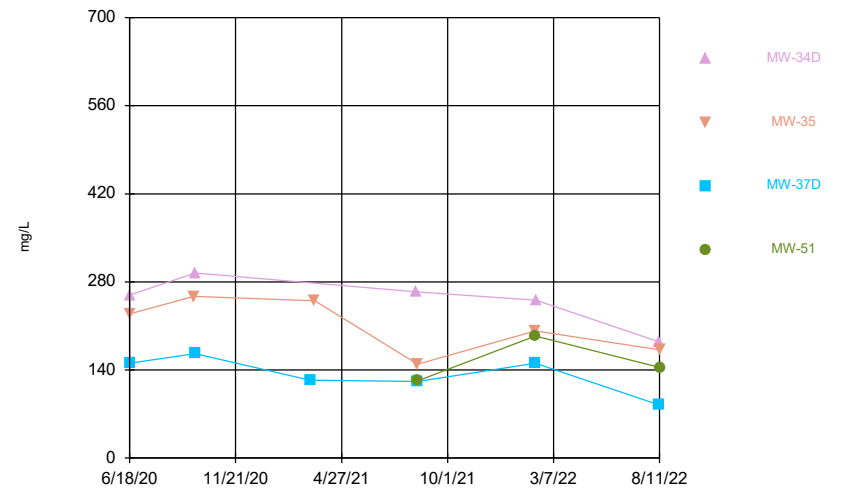
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Time Series



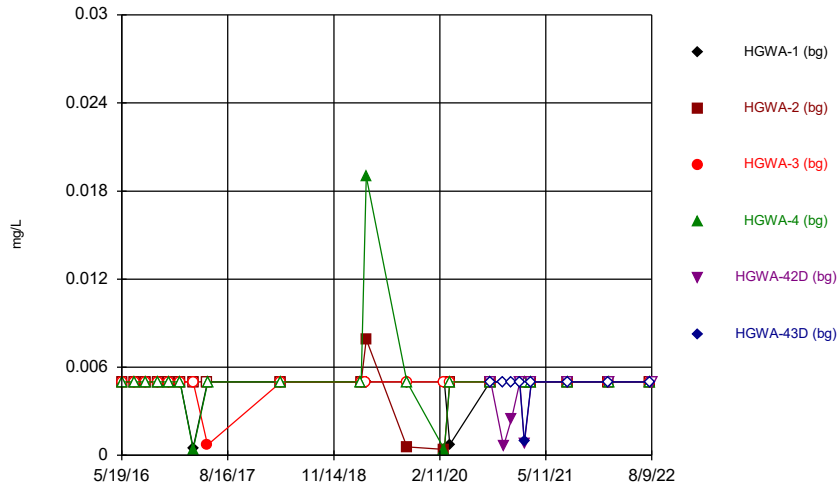
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Time Series



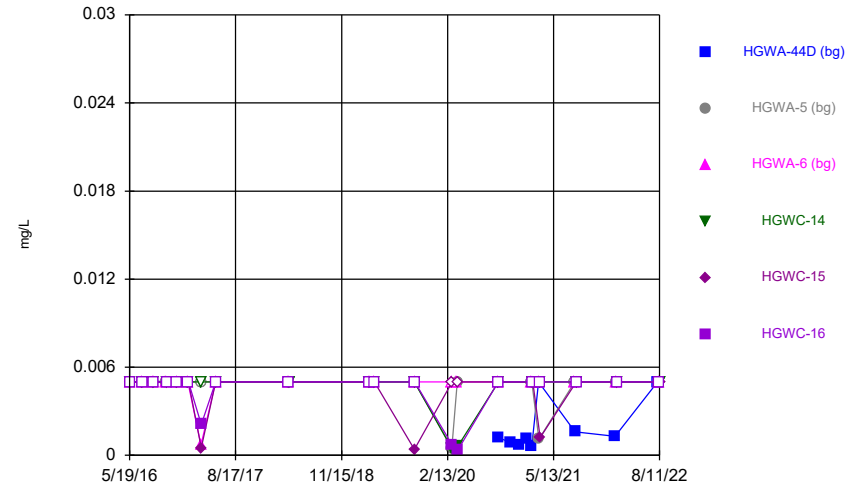
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Time Series



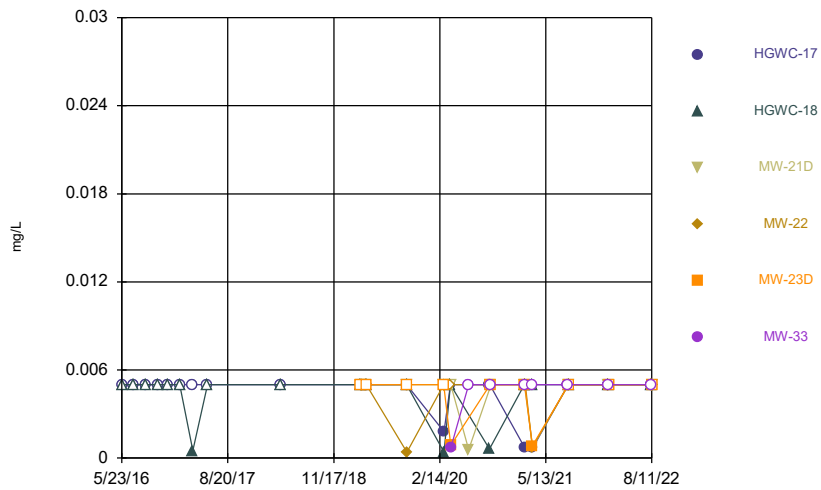
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Time Series



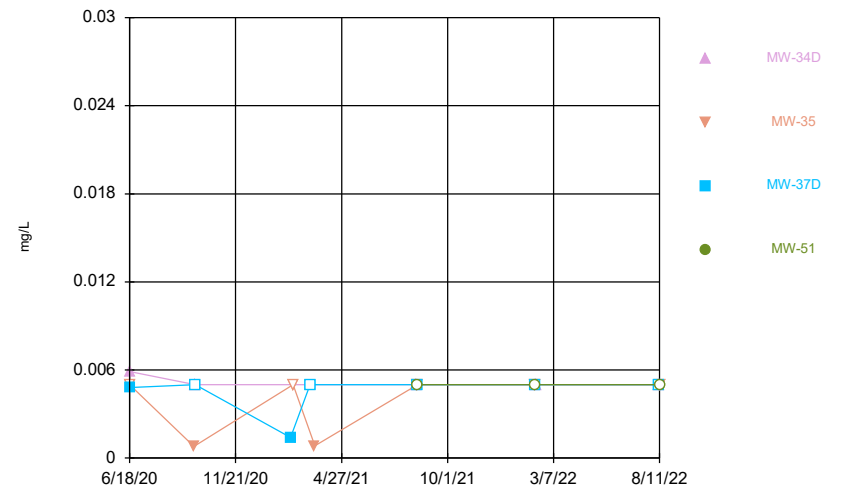
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Time Series



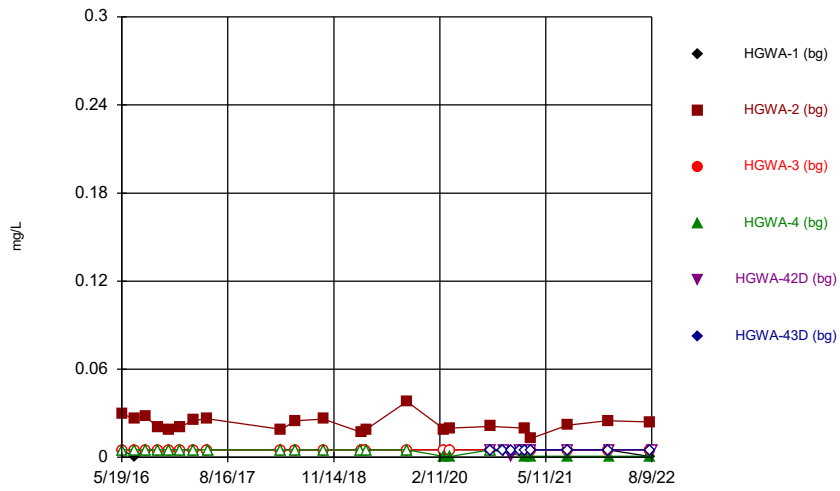
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Time Series



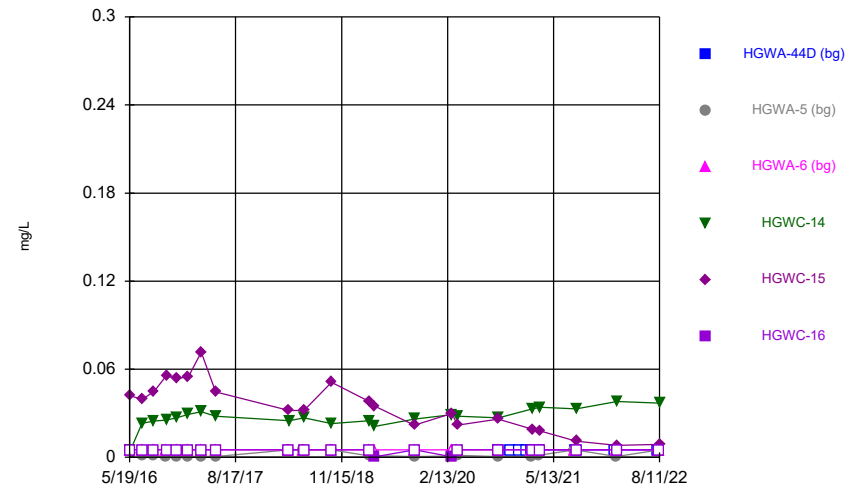
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



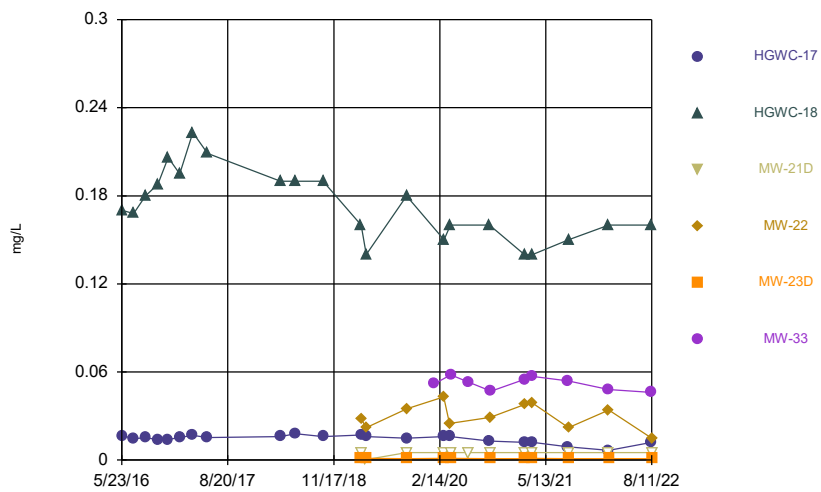
Constituent: Cobalt Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



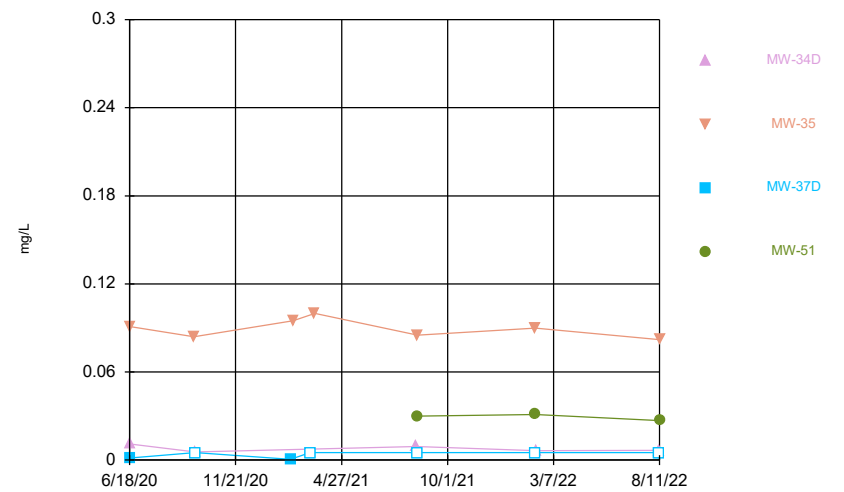
Constituent: Cobalt Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



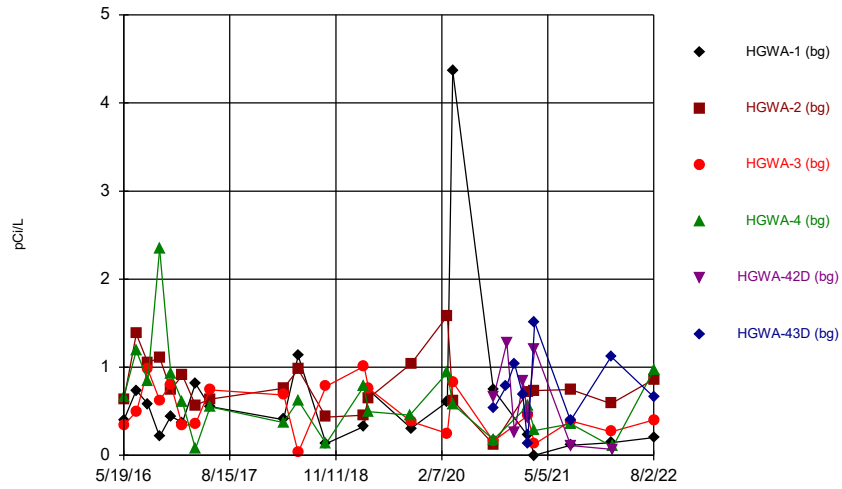
Constituent: Cobalt Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



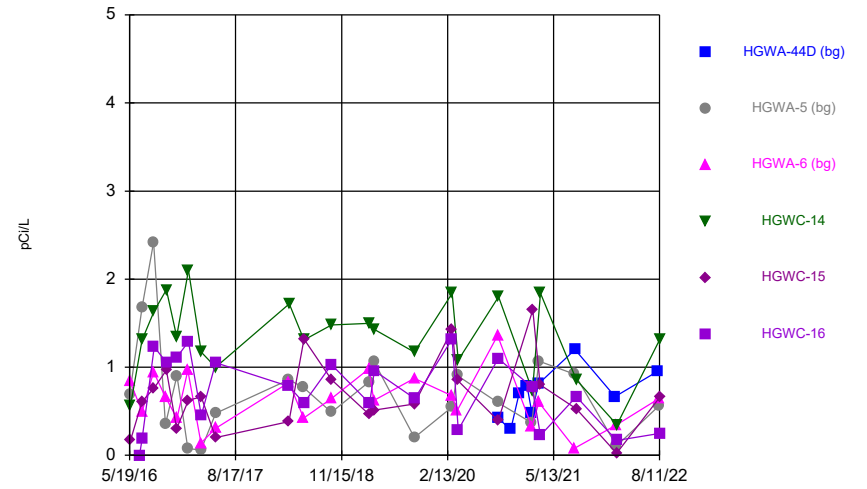
Constituent: Cobalt Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



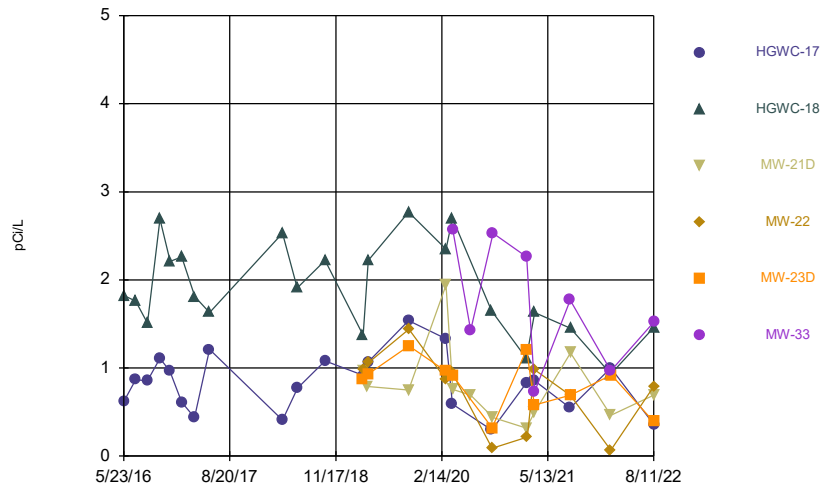
Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



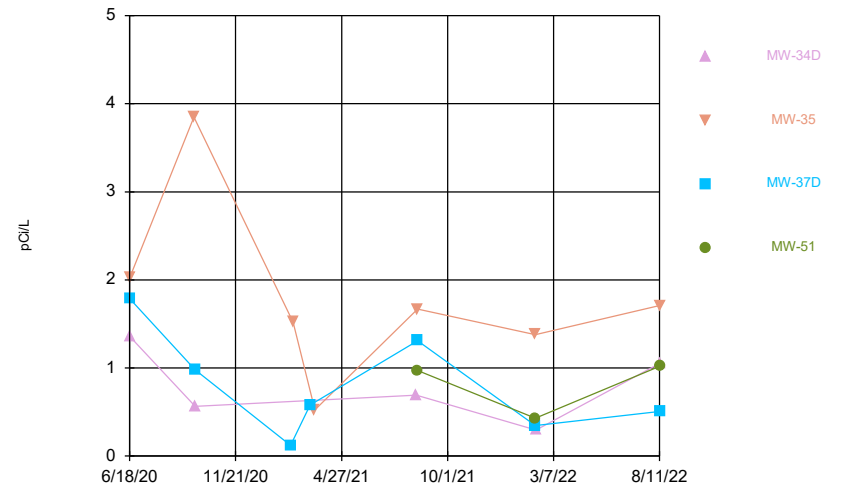
Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



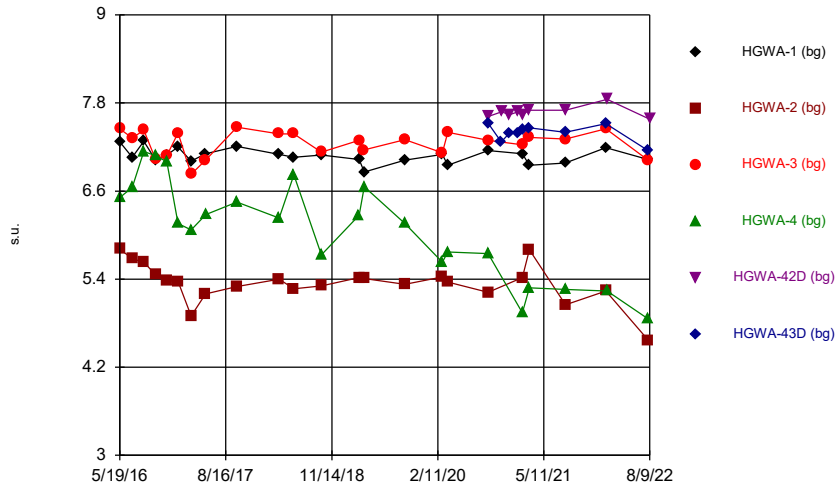
Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



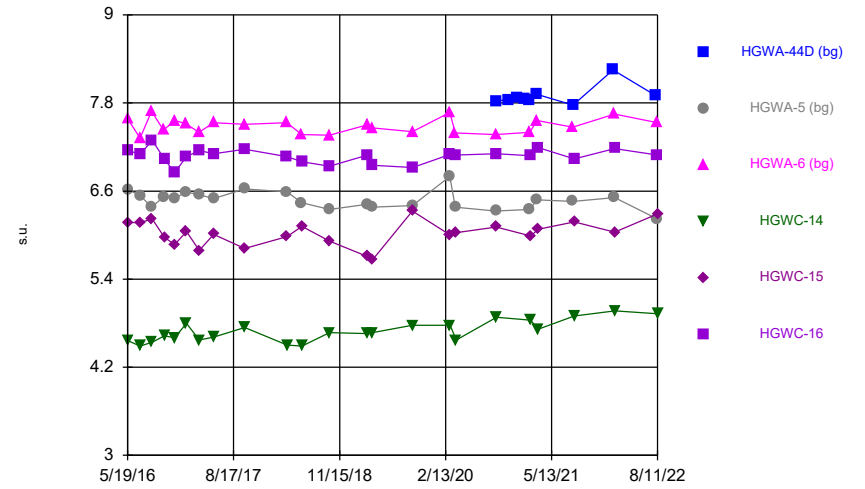
Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



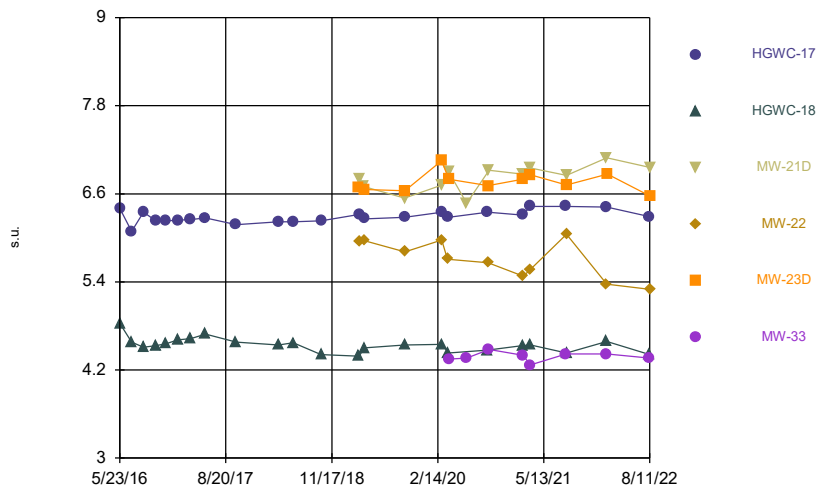
Constituent: Field pH Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



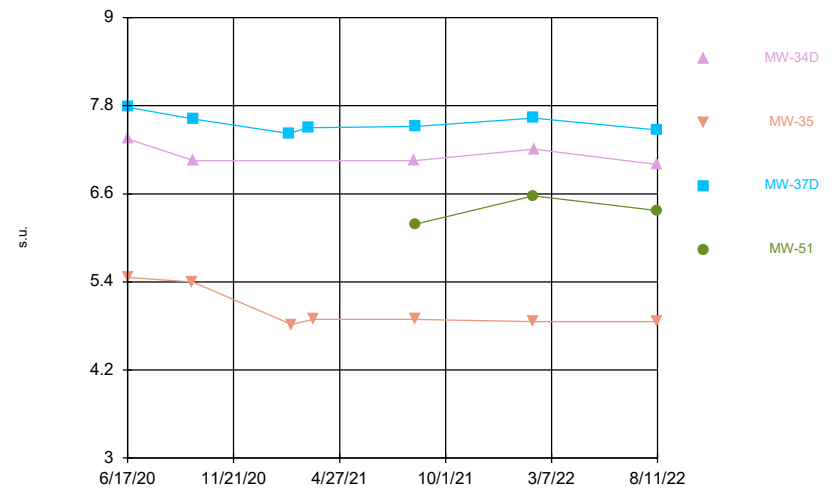
Constituent: Field pH Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



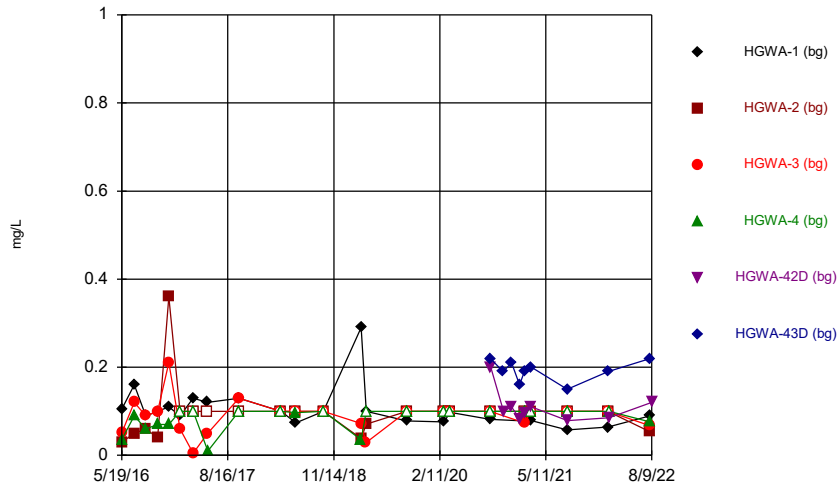
Constituent: Field pH Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



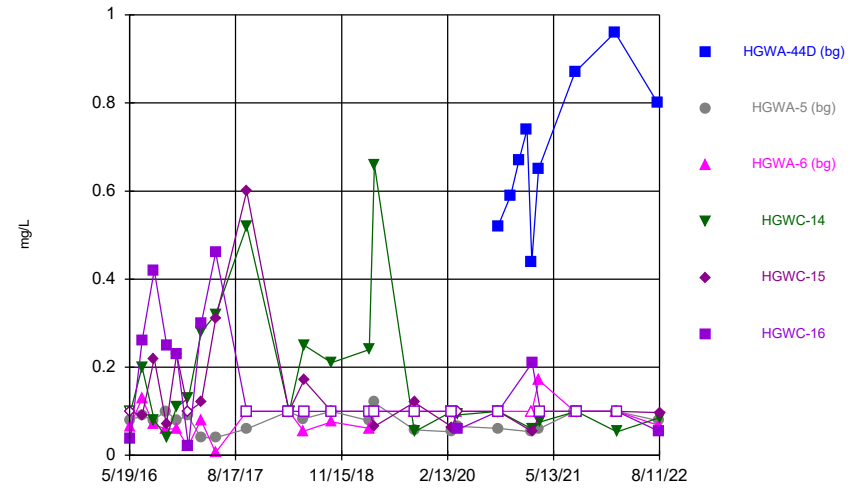
Constituent: Field pH Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



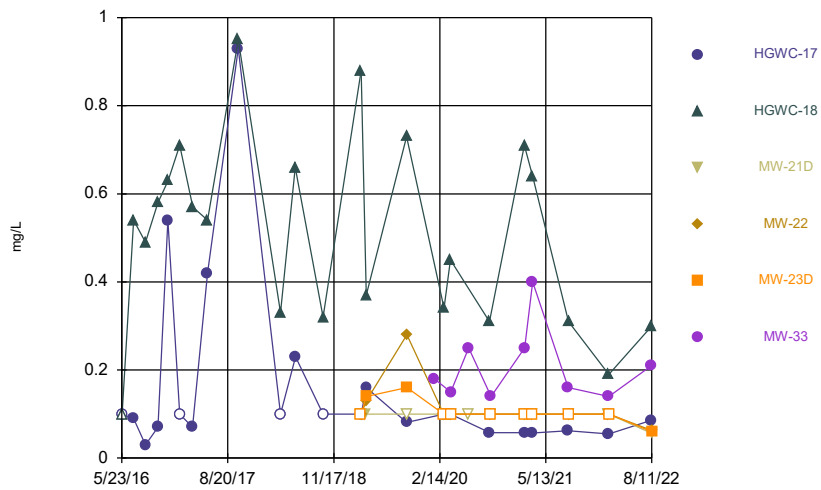
Constituent: Fluoride Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



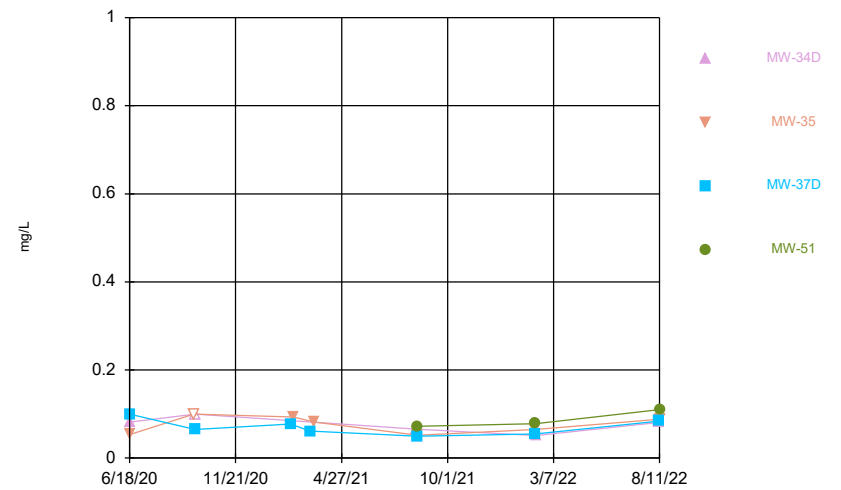
Constituent: Fluoride Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



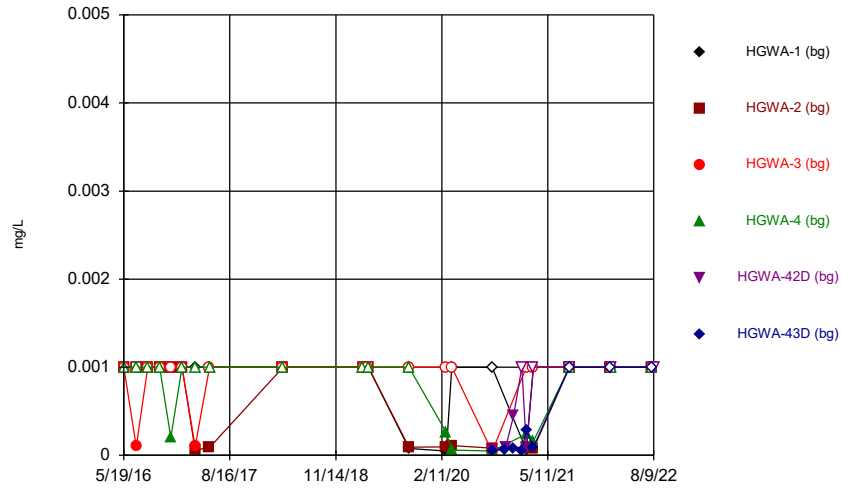
Constituent: Fluoride Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



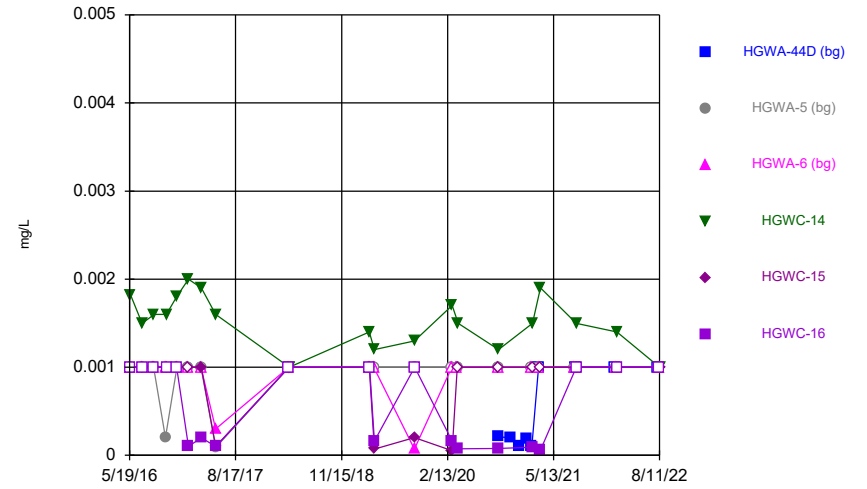
Constituent: Fluoride Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



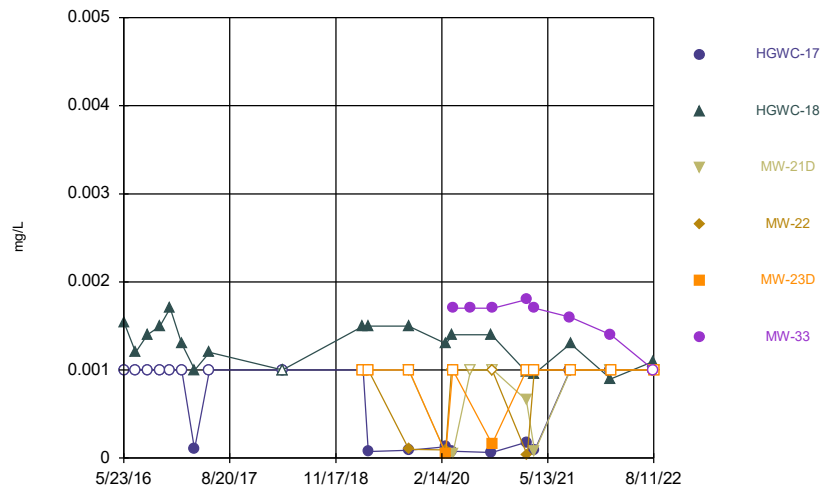
Constituent: Lead Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



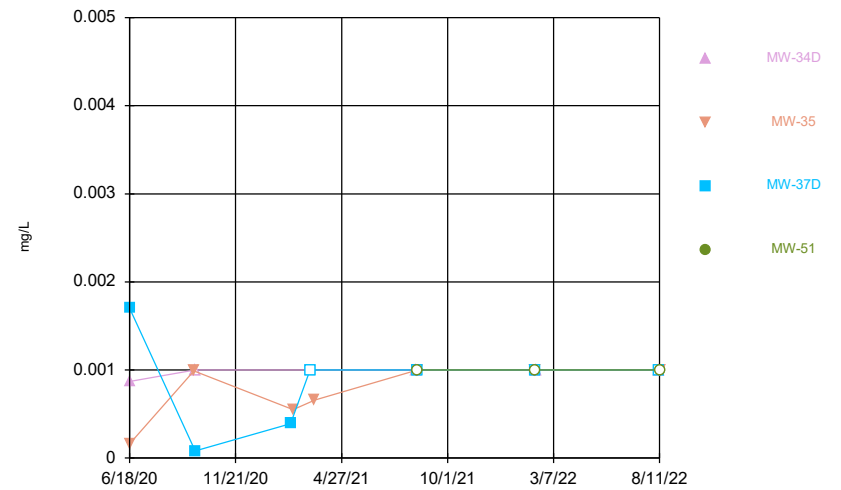
Constituent: Lead Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



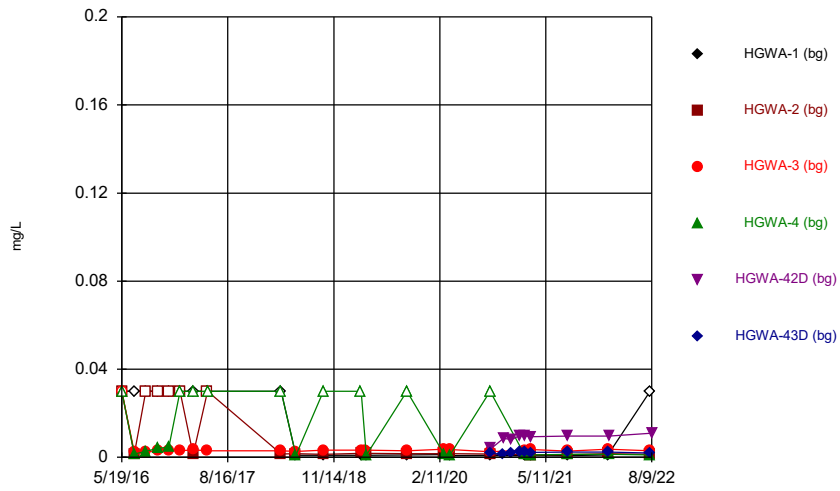
Constituent: Lead Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



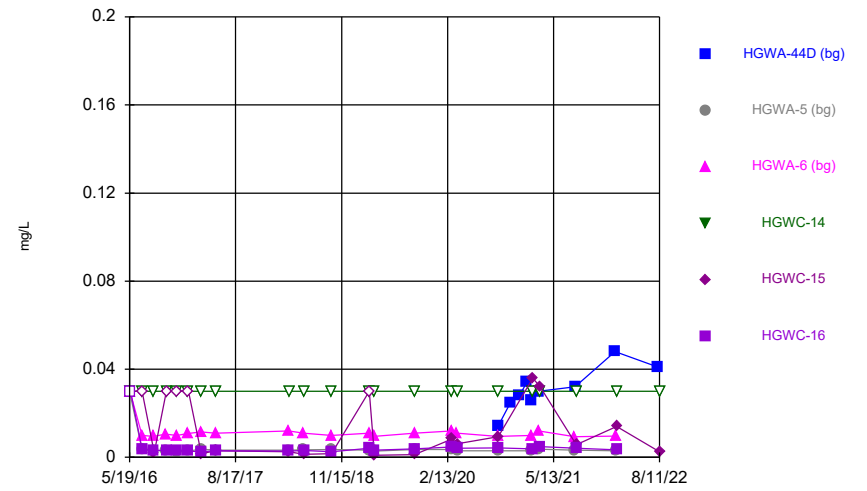
Constituent: Lead Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



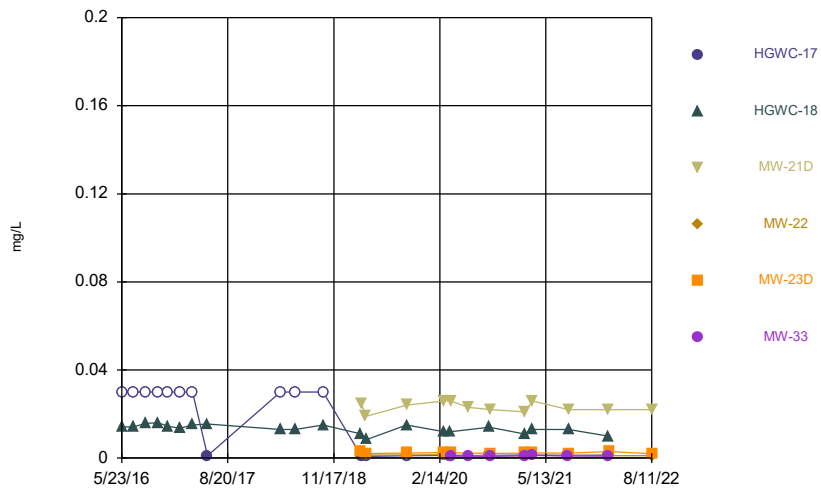
Constituent: Lithium Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



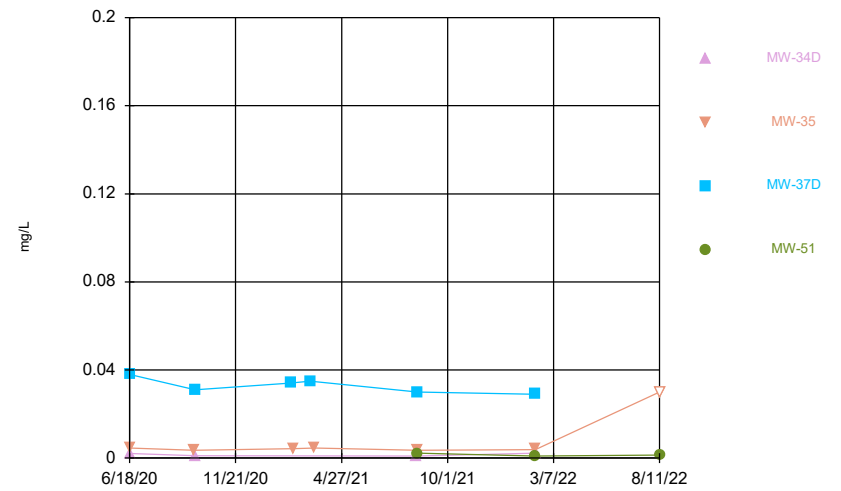
Constituent: Lithium Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



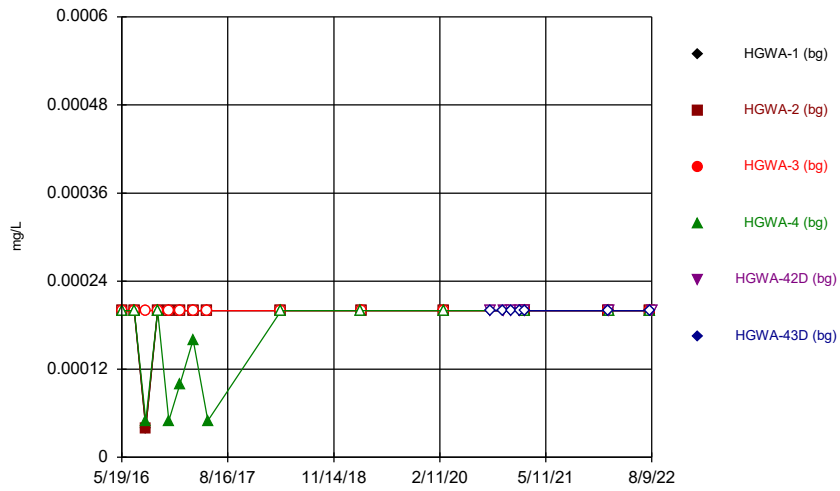
Constituent: Lithium Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



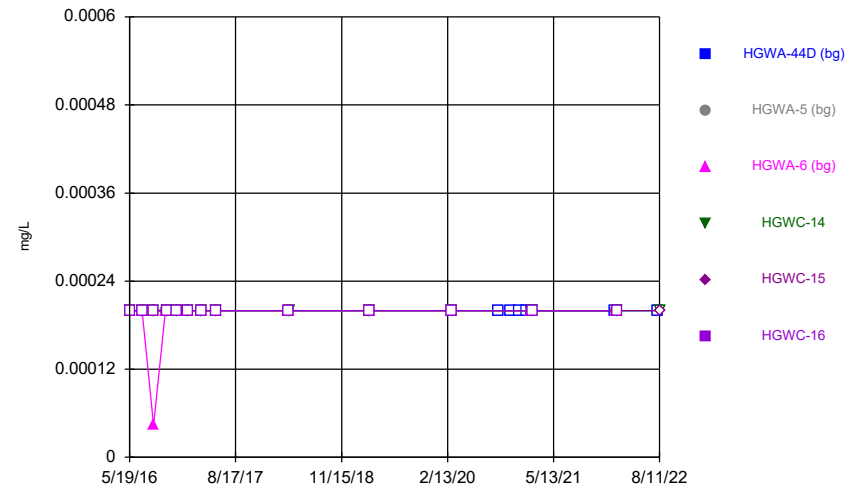
Constituent: Lithium Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



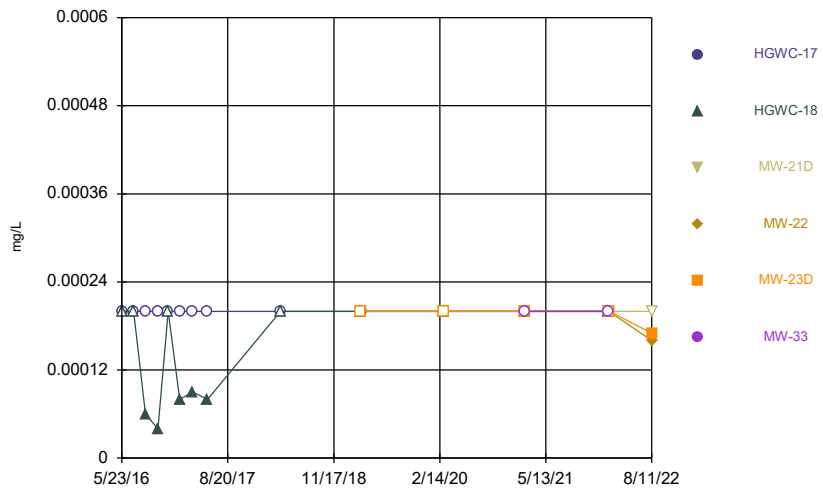
Constituent: Mercury Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



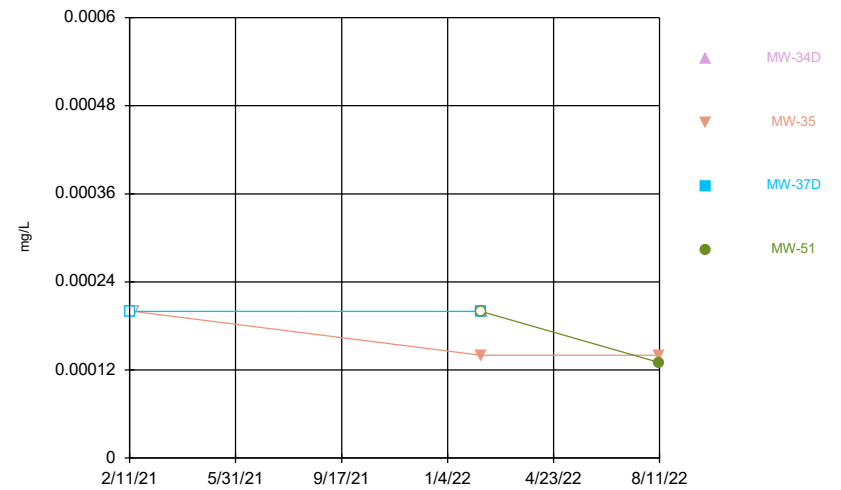
Constituent: Mercury Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



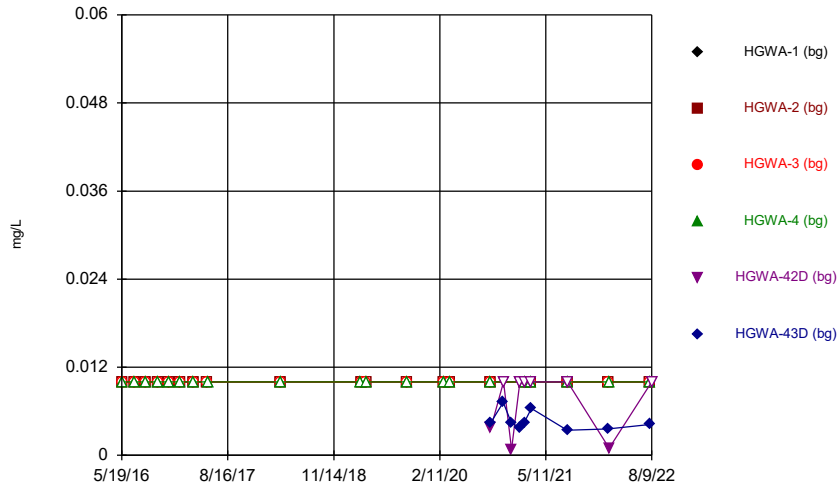
Constituent: Mercury Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



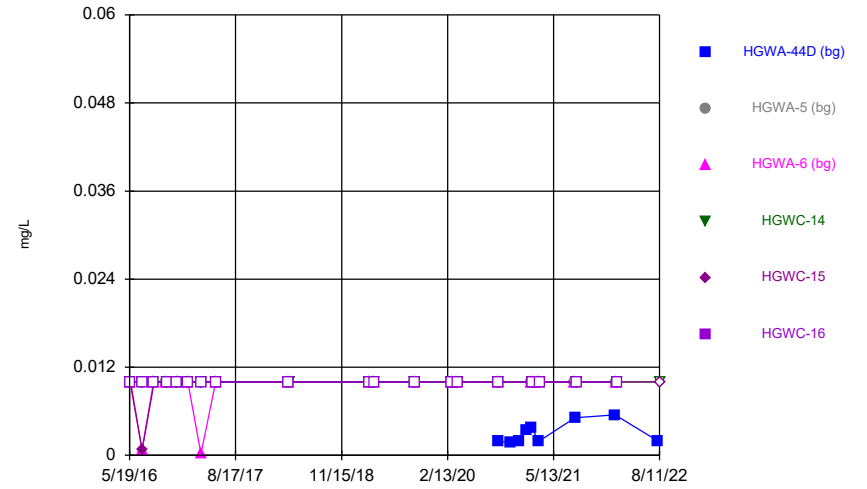
Constituent: Mercury Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



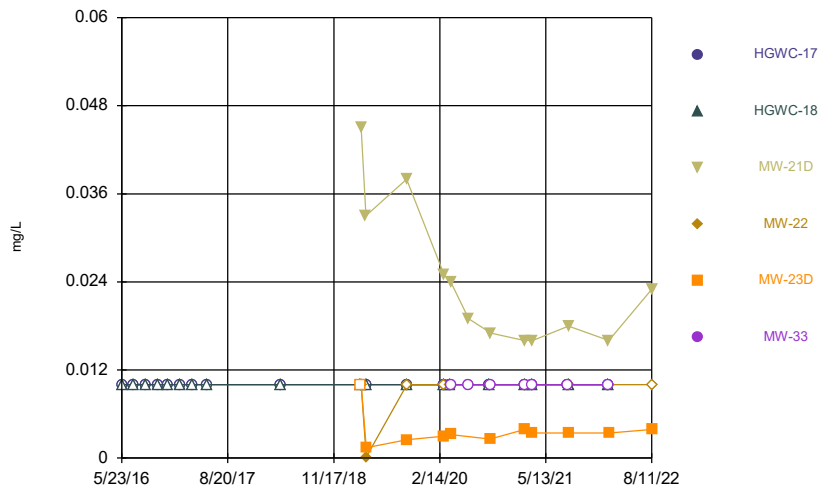
Constituent: Molybdenum Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



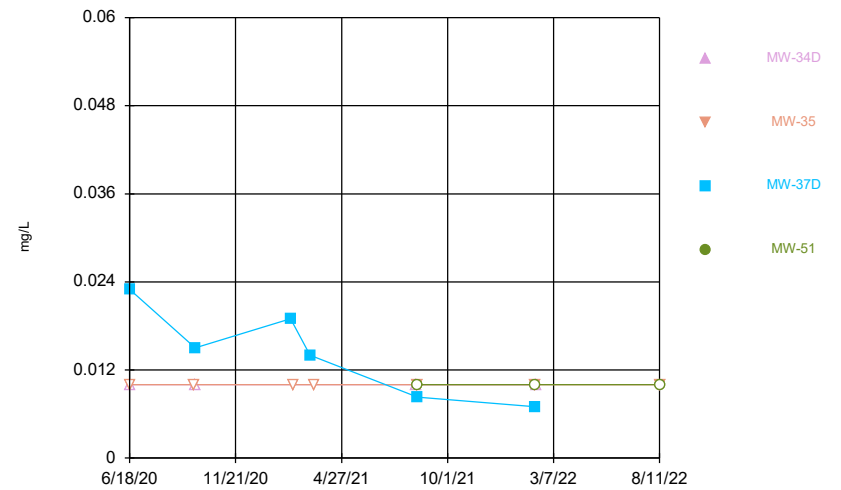
Constituent: Molybdenum Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



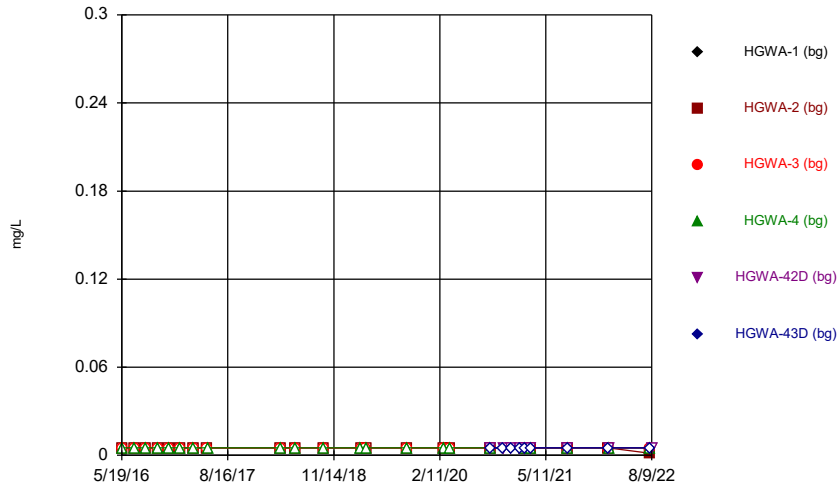
Constituent: Molybdenum Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



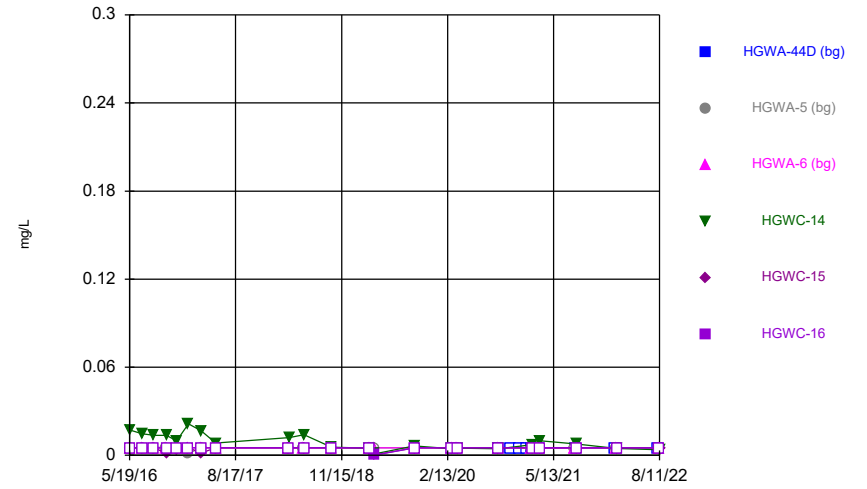
Constituent: Molybdenum Analysis Run 10/31/2022 2:05 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



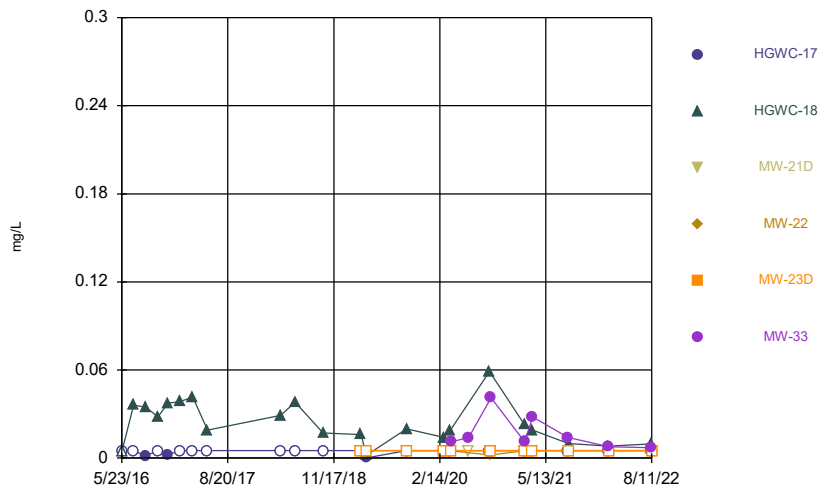
Constituent: Selenium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



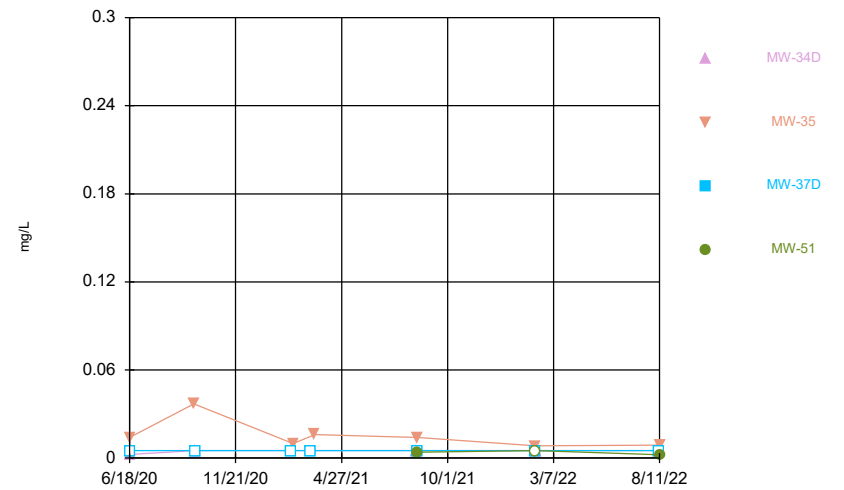
Constituent: Selenium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



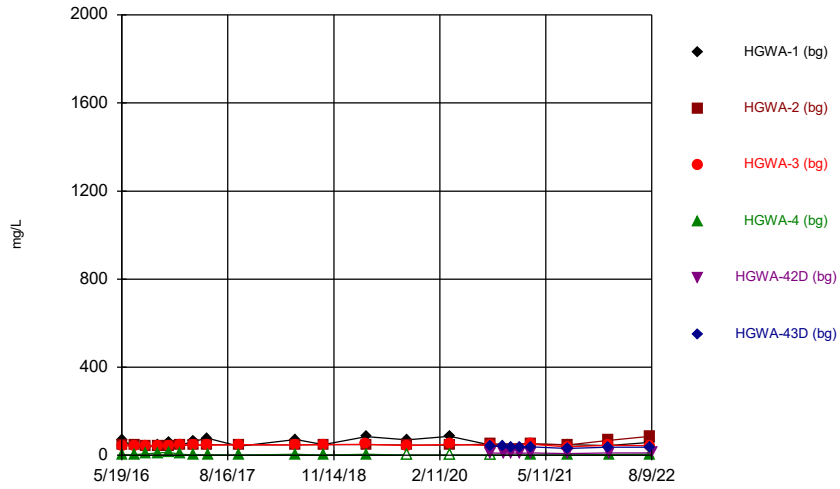
Constituent: Selenium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



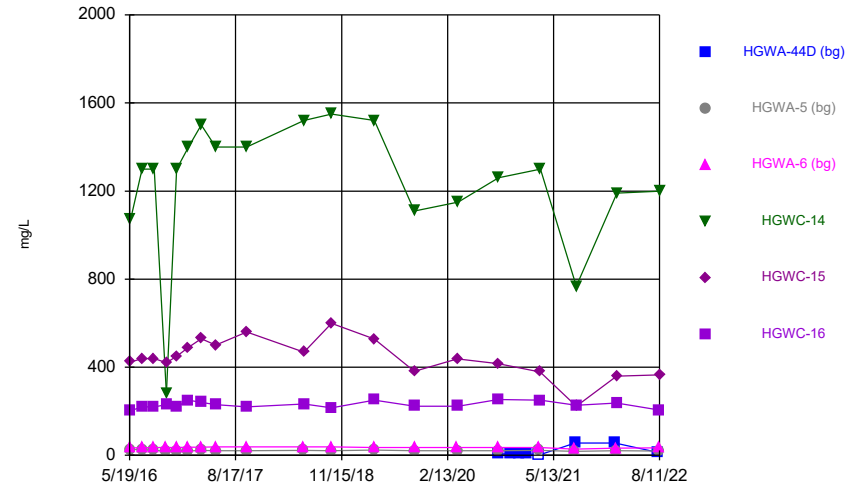
Constituent: Selenium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



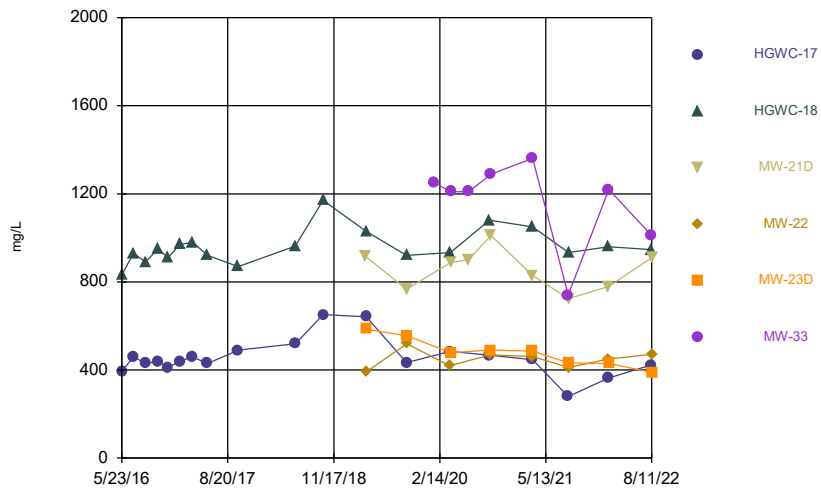
Constituent: Sulfate Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



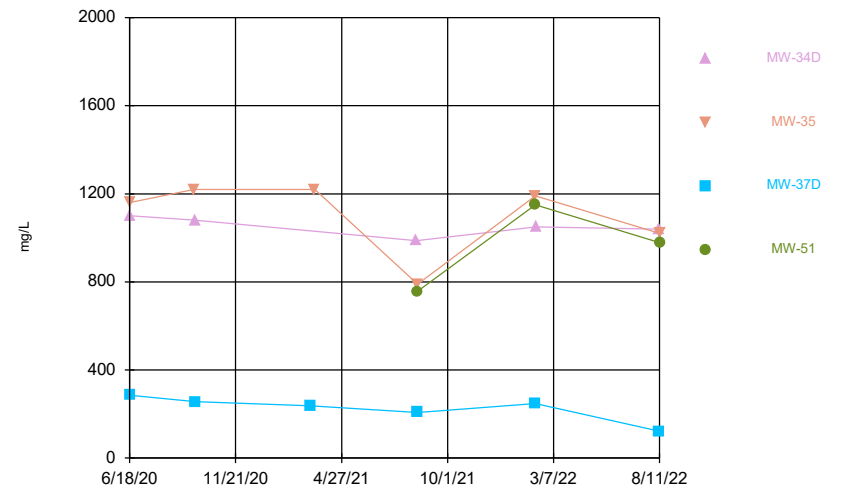
Constituent: Sulfate Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



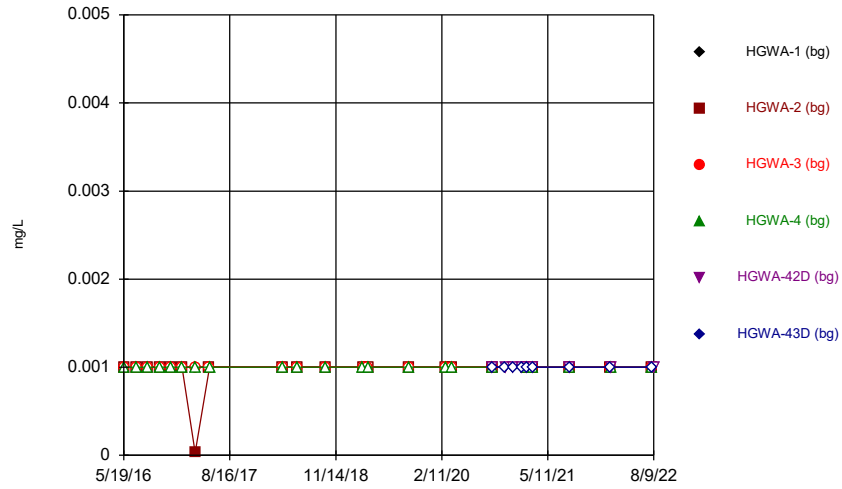
Constituent: Sulfate Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



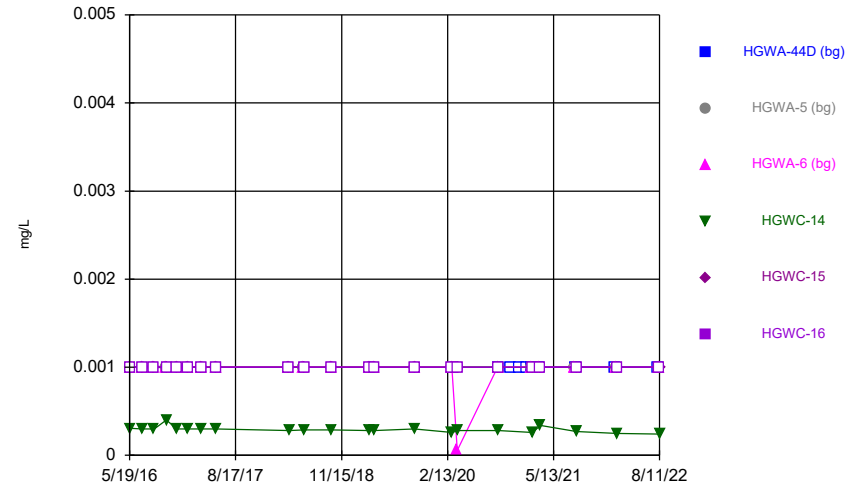
Constituent: Sulfate Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



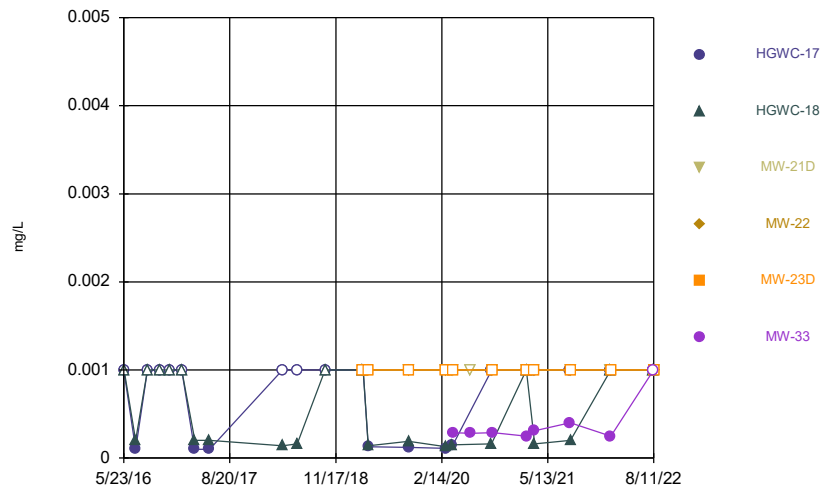
Constituent: Thallium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



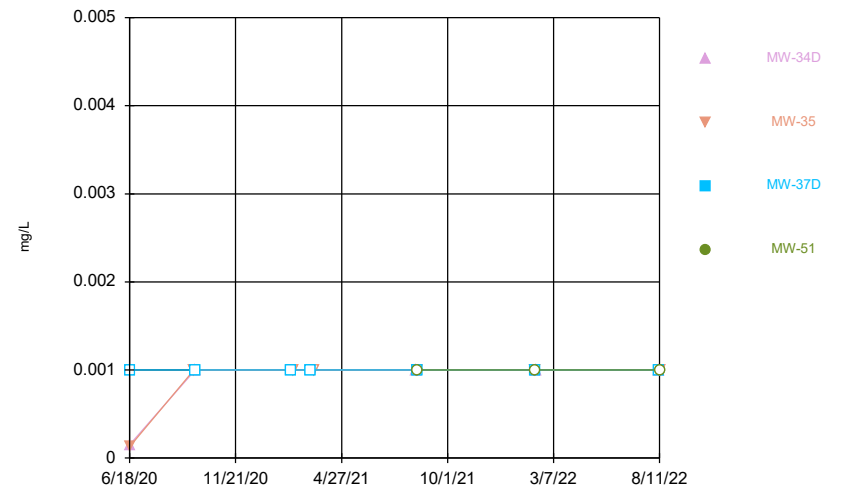
Constituent: Thallium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



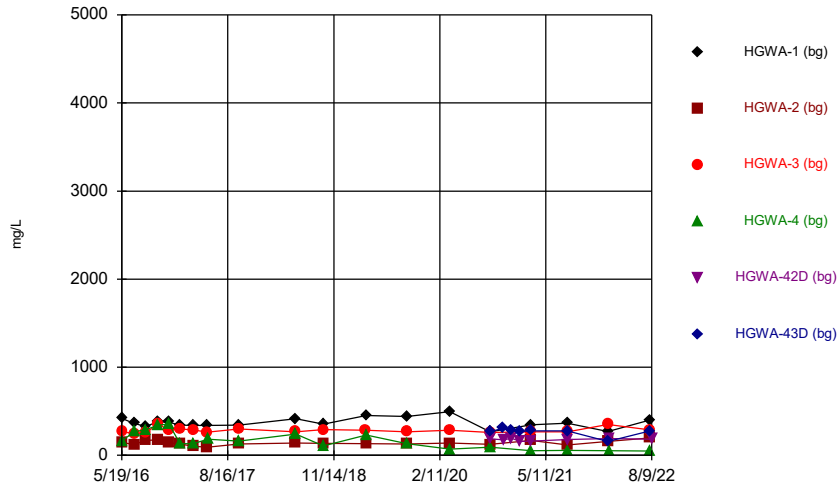
Constituent: Thallium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



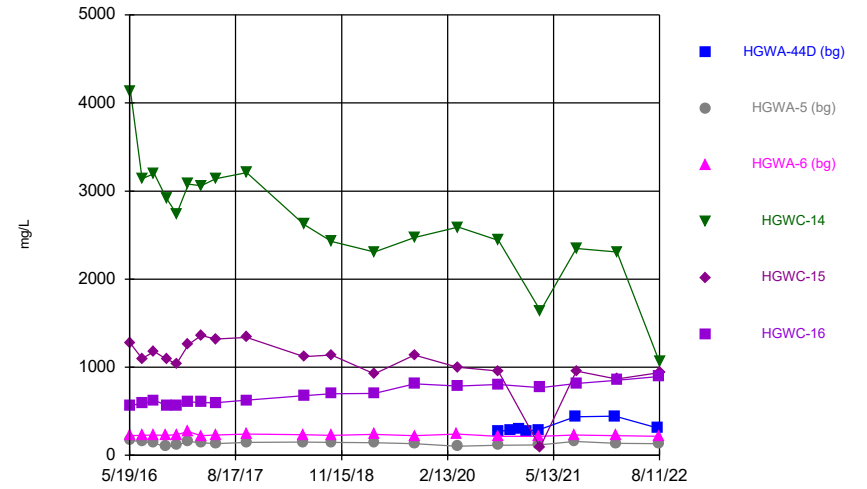
Constituent: Thallium Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



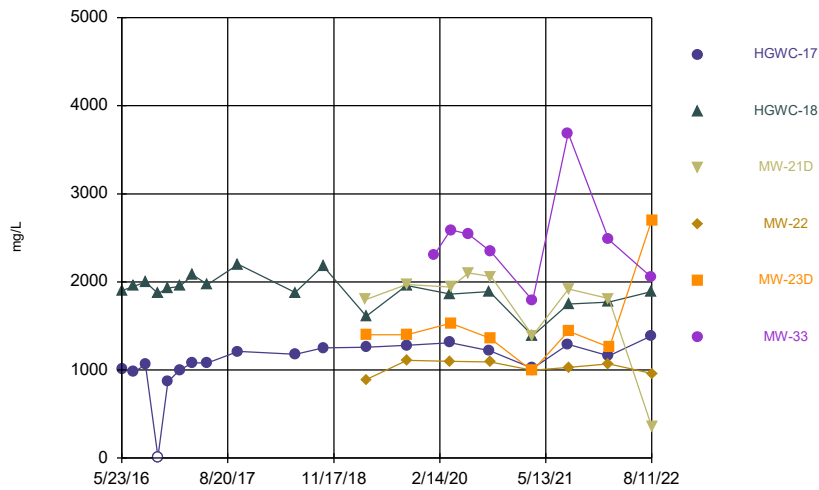
Constituent: Total Dissolved Solids Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



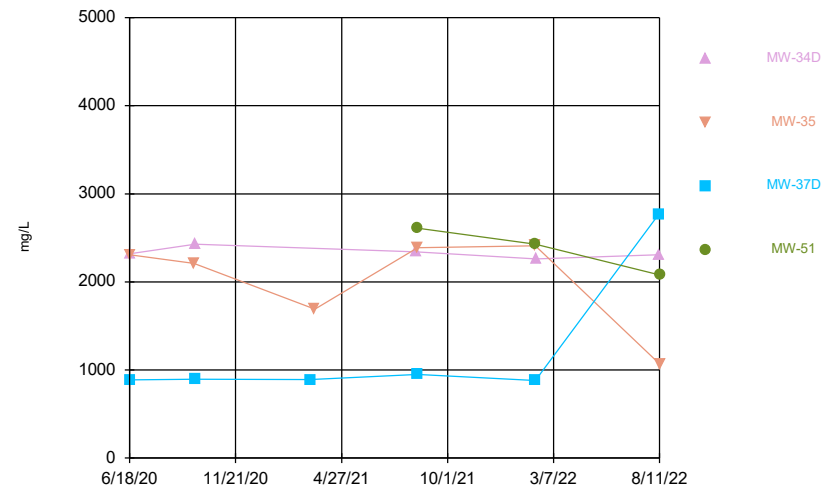
Constituent: Total Dissolved Solids Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/31/2022 2:06 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.003	<0.003	<0.003	<0.003		
7/11/2016	<0.003	<0.003		<0.003		
7/12/2016			0.0003 (J)			
8/30/2016	<0.003	<0.003	<0.003	<0.003		
10/19/2016	0.0014 (J)	<0.003	<0.003	<0.003		
12/6/2016	<0.003	<0.003	<0.003	<0.003		
1/24/2017	<0.003	<0.003	<0.003	<0.003		
3/21/2017	<0.003	<0.003	<0.003	<0.003		
5/22/2017	<0.003	<0.003	<0.003			
5/23/2017				<0.003		
4/2/2018	<0.003	<0.003		<0.003		
4/3/2018			<0.003			
3/11/2019				<0.003		
3/12/2019	<0.003	<0.003	<0.003			
9/23/2019	<0.003	<0.003	<0.003			
3/2/2020	<0.003	<0.003	<0.003	<0.003		
9/16/2020						0.00051 (J)
9/17/2020					0.00055 (J)	
11/10/2020						0.00043 (J)
11/11/2020				<0.003		
12/15/2020					0.00035 (J)	0.00031 (J)
1/19/2021						0.00029 (J)
1/20/2021					<0.003	
2/8/2021	<0.003			<0.003	0.0019 (J)	
2/9/2021		0.00062 (J)	0.00031 (J)			0.00037 (J)
3/10/2021	<0.003			<0.003	<0.003	
3/11/2021		<0.003	<0.003			0.00057 (J)
8/11/2021	<0.003					<0.003
8/12/2021		<0.003	<0.003	<0.003	<0.003	
2/1/2022	<0.003	<0.003	<0.003			<0.003
2/7/2022				<0.003	<0.003	
8/2/2022	<0.003	<0.003	<0.003	<0.003		<0.003
8/9/2022					<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.003				
5/20/2016			<0.003			
5/23/2016				<0.003	<0.003	<0.003
7/11/2016		<0.003	0.001 (J)			
7/12/2016				0.0003 (J)	<0.003	<0.003
8/30/2016		<0.003	<0.003			
9/1/2016				<0.003	<0.003	<0.003
10/20/2016		0.0023 (J)	<0.003			
10/24/2016				<0.003	<0.003	
10/25/2016						<0.003
12/7/2016				<0.003	<0.003	<0.003
12/8/2016		<0.003	<0.003			
1/24/2017		<0.003	<0.003			
1/26/2017				<0.003	<0.003	<0.003
3/21/2017		<0.003	<0.003			
3/22/2017						<0.003
3/23/2017				<0.003	<0.003	
5/23/2017		<0.003	<0.003			
5/24/2017				<0.003	<0.003	<0.003
4/3/2018		<0.003	<0.003		<0.003	<0.003
4/4/2018				<0.003		
3/12/2019		<0.003	<0.003			
3/14/2019				<0.003	<0.003	
3/15/2019						<0.003
3/2/2020		<0.003	<0.003			
3/3/2020				<0.003	<0.003	<0.003
9/16/2020	0.00049 (J)					
11/10/2020	<0.003					
12/15/2020	0.00047 (J)					
1/19/2021	0.00067 (J)					
2/9/2021	0.00042 (J)	<0.003	<0.003			
2/10/2021						<0.003
2/11/2021				0.00043 (J)		
2/12/2021					<0.003	
3/10/2021	0.00037 (J)					
3/11/2021		<0.003	<0.003			
3/16/2021					<0.003	
3/17/2021				<0.003		<0.003
8/12/2021		0.0014 (J)	<0.003			
8/13/2021	<0.003					
8/18/2021				<0.003		
8/19/2021					<0.003	<0.003
2/1/2022	0.0013 (J)					
2/7/2022		<0.003	0.0014 (J)			
2/8/2022					0.002 (J)	<0.003
2/9/2022				<0.003		
8/2/2022	<0.003					
8/10/2022		<0.003	<0.003			<0.003
8/11/2022				0.001 (J)	0.0016 (J)	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.003					
5/24/2016		<0.003				
7/12/2016	<0.003	<0.003				
9/1/2016	<0.003	<0.003				
10/25/2016	<0.003	<0.003				
12/7/2016	<0.003					
12/8/2016		<0.003				
1/26/2017	<0.003	<0.003				
3/22/2017	<0.003					
3/23/2017		<0.003				
5/25/2017	<0.003	<0.003				
4/3/2018	<0.003	<0.003				
3/14/2019		<0.003			<0.003	
3/15/2019	<0.003		<0.003	<0.003		
3/2/2020				<0.003	<0.003	
3/3/2020	<0.003	<0.003	<0.003			
2/11/2021	<0.003	<0.003	<0.003			
2/12/2021					<0.003	0.00046 (J)
2/15/2021				<0.003		
3/17/2021				<0.003	<0.003	
3/18/2021	<0.003	<0.003	<0.003			<0.003
8/18/2021	<0.003					<0.003
8/19/2021		0.0008 (J)	<0.003	0.0016 (J)	<0.003	
2/8/2022	<0.003	<0.003	<0.003	<0.003		<0.003
2/10/2022					<0.003	
8/10/2022	<0.003	<0.003				<0.003
8/11/2022			<0.003	<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
2/11/2021			0.00079 (J)	
2/15/2021		0.00041 (J)		
3/12/2021			<0.003	
3/19/2021		<0.003		
8/16/2021	<0.003			
8/18/2021		<0.003	<0.003	<0.003
2/8/2022		0.0029 (J)	<0.003	<0.003
2/9/2022	<0.003			
8/10/2022	<0.003		<0.003	
8/11/2022		<0.003		<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	0.00127 (J)	<0.005	<0.005		
7/11/2016	<0.005	0.002 (J)		<0.005		
7/12/2016			0.0008 (J)			
8/30/2016	<0.005	0.0017 (J)	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)	<0.005		
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)	<0.005		
10/1/2018	<0.005	<0.005	0.0011 (J)	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005		<0.005		
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/24/2019				<0.005		
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)	<0.005		
3/25/2020	<0.005	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						0.0021 (J)
11/11/2020				<0.005		
12/15/2020				<0.005		<0.005
1/19/2021						0.0011 (J)
1/20/2021				<0.005		
2/8/2021	<0.005			<0.005	<0.005	
2/9/2021		<0.005	<0.005			0.0017 (J)
3/10/2021	<0.005			<0.005	<0.005	
3/11/2021		<0.005	<0.005			0.0013 (J)
8/11/2021	<0.005					0.0015 (J)
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)			0.0036 (J)
2/7/2022				<0.005	<0.005	
8/2/2022	<0.005	<0.005	<0.005	<0.005		<0.005
8/9/2022				<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				0.00268 (J)	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				0.0059	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				0.0056	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				0.0058	<0.005	
10/25/2016						<0.005
12/7/2016				<0.005	<0.005	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		<0.005	<0.005			
1/26/2017				0.0089	<0.005	<0.005
3/21/2017		<0.005	<0.005			
3/22/2017						0.0005 (J)
3/23/2017				0.0069	0.0008 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				0.0048 (J)	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				0.0052		
6/5/2018		<0.005	<0.005			
6/6/2018				0.0059	<0.005	<0.005
10/2/2018		0.00064 (J)	<0.005			
10/3/2018				0.0032 (J)	<0.005	<0.005
3/12/2019		<0.005	<0.005			
3/14/2019				0.0029 (J)	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					0.00017 (J)	0.0001 (J)
4/5/2019				<0.005		
9/24/2019		0.00055 (J)	<0.005	0.0039 (J)	0.00037 (J)	
9/25/2019						<0.005
3/2/2020		<0.005	<0.005			
3/3/2020				0.0035 (J)	<0.005	<0.005
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.0051		0.0011 (J)
9/15/2020		<0.005	<0.005			
9/16/2020	<0.005					
9/17/2020					<0.005	<0.005
9/18/2020				0.0029 (J)		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	0.00083 (J)	<0.005	<0.005			
2/10/2021						0.0012 (J)
2/11/2021				0.0062		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		<0.005	<0.005			
3/16/2021					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.005		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.0035 (J)		
8/19/2021					<0.005	<0.005
2/1/2022	0.0025 (J)					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				0.0077		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				0.006	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		0.00294 (J)				
7/12/2016	<0.005	0.0074				
9/1/2016	<0.005	0.0073				
10/25/2016	<0.005	0.006				
12/7/2016	<0.005					
12/8/2016		0.007				
1/26/2017	<0.005	0.0068				
3/22/2017	0.0007 (J)					
3/23/2017		0.0082				
5/25/2017	0.0007 (J)	0.006				
4/3/2018	<0.005	0.0062				
6/5/2018		0.008				
6/6/2018	0.00097 (J)					
10/3/2018	<0.005	0.0039 (J)				
3/14/2019		0.0036 (J)			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			0.00019 (J)			
4/5/2019	<0.005	0.0015 (J)		<0.005	<0.005	
9/25/2019	<0.005	0.0044 (J)	<0.005			
9/26/2019					<0.005	
9/27/2019				0.00045 (J)		
3/2/2020				<0.005	<0.005	
3/3/2020	<0.005	0.0057	<0.005			
3/27/2020				<0.005		
3/31/2020	0.0008 (J)	0.0056				
4/1/2020			0.0013 (J)		0.00082 (J)	0.0061
6/17/2020			<0.005			0.0031 (J)
9/15/2020		0.0074				
9/16/2020	<0.005					
9/17/2020				<0.005	<0.005	
9/21/2020			<0.005			0.0083
2/11/2021	0.0012 (J)	0.0069 (B)	0.001 (J)			
2/12/2021					0.001 (J)	0.0059
2/15/2021				<0.005		
3/17/2021				<0.005	<0.005	
3/18/2021	<0.005	0.0083 (J)	<0.005			0.0054 (J)
8/18/2021	<0.005					0.0058
8/19/2021		0.0045 (J)	<0.005	<0.005	<0.005	
2/8/2022	0.0017 (J)	0.005 (J)	<0.005	<0.005		0.0069
2/10/2022					<0.005	
8/10/2022	<0.005	0.0058				<0.005
8/11/2022			0.003 (J)	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0032 (J)	0.005 (J)	0.0021 (J)	
9/21/2020		0.0059		
9/23/2020	0.001 (J)		0.00095 (J)	
2/11/2021			0.0023 (J)	
2/15/2021		0.005		
3/12/2021			<0.005	
3/19/2021		<0.005		
8/16/2021	0.0024 (J)			
8/18/2021		0.0043 (J)	<0.005	0.002 (J)
2/8/2022		0.0072	<0.005	0.0046 (J)
2/9/2022	0.0054			
8/10/2022	0.0045 (J)		<0.005	
8/11/2022		<0.005		0.0043 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.0346	0.114	0.111	0.0266		
7/11/2016	0.0311	0.112		0.0309		
7/12/2016			0.115			
8/30/2016	0.0293	0.131	0.113	0.031		
10/19/2016	0.0293	0.111	0.123	0.0332		
12/6/2016	0.0304	0.108	0.127	0.0334		
1/24/2017	0.028	0.102	0.126	0.0192		
3/21/2017	0.0275	0.095	0.12	0.0175		
5/22/2017	0.0281	0.103	0.117			
5/23/2017				0.0227		
4/2/2018	0.026	0.099		0.022		
4/3/2018			0.11			
6/4/2018	0.035	0.11	0.12	0.027		
10/1/2018	0.029	0.11	0.14	0.018		
3/11/2019				0.029		
3/12/2019	0.042	0.12	0.13			
4/1/2019			0.13			
4/2/2019	0.04	0.13		0.03		
9/23/2019	0.042	0.13	0.13			
9/24/2019				0.03		
3/2/2020	0.034	0.11	0.14	0.023		
3/25/2020	0.043	0.12	0.13			
3/26/2020				0.026		
9/15/2020	0.035	0.12	0.12	0.024		
9/16/2020						0.26
9/17/2020				0.13		
11/10/2020						0.25
11/11/2020				0.18		
12/15/2020				0.19		0.29
1/19/2021						0.32
1/20/2021				0.2		
2/8/2021	0.032			0.04	0.19	
2/9/2021		0.12	0.13			0.34
3/10/2021	0.03			0.036	0.18	
3/11/2021		0.07	0.13			0.32
8/11/2021	0.03					0.28
8/12/2021		0.12	0.11	0.034	0.18	
2/1/2022	0.031	0.13	0.12			0.29
2/7/2022				0.028	0.18	
8/2/2022	0.039	0.11	0.16	0.041		0.35
8/9/2022				0.2		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.0519				
5/20/2016			0.174			
5/23/2016				<0.2	0.0315 (J)	0.0841
7/11/2016		0.0565	0.134			
7/12/2016				0.0214	0.0372	0.0886
8/30/2016		0.0548	0.212			
9/1/2016				0.0208	0.0364	0.0934
10/20/2016		0.0539	0.157			
10/24/2016				0.0208	0.0326	
10/25/2016						0.0991
12/7/2016				0.022	0.0301	0.101
12/8/2016		0.0496	0.162			
1/24/2017		0.0478	0.168			
1/26/2017				0.0238	0.0287	0.105
3/21/2017		0.0453	0.186			
3/22/2017						0.11
3/23/2017				0.0244	0.0329	
5/23/2017		0.0496	0.187			
5/24/2017				0.0228	0.0283	0.106
4/3/2018		0.038	0.14		0.019	0.099
4/4/2018				0.021		
6/5/2018		0.046	0.21			
6/6/2018				0.022	0.022	0.11
10/2/2018		0.047	0.19			
10/3/2018				0.02	0.025	0.11
3/12/2019		0.05	0.2			
3/14/2019				0.019	0.021	
3/15/2019						0.13
4/2/2019		0.044	0.19			
4/4/2019					0.018	0.11
4/5/2019				0.016		
9/24/2019		0.053	0.22	0.021	0.019	
9/25/2019						0.11
3/2/2020		0.053	0.19			
3/3/2020				0.018	0.018	0.12
3/25/2020			0.19			
3/26/2020		0.045			0.016	
3/30/2020				0.02		0.11
9/15/2020		0.045	0.19			
9/16/2020	0.24					
9/17/2020					0.017	0.11
9/18/2020				0.019		
11/10/2020	0.38					
12/15/2020	0.39					
1/19/2021	0.41					
2/9/2021	0.46	0.046	0.21			
2/10/2021						0.11
2/11/2021				0.02		
2/12/2021					0.014	
3/10/2021	0.26					
3/11/2021		0.044	0.21			
3/16/2021					0.012	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.023		0.12
8/12/2021		0.044	0.18			
8/13/2021	0.22					
8/18/2021				0.018		
8/19/2021					0.01	0.1
2/1/2022	0.23					
2/7/2022		0.038	0.18			
2/8/2022					0.0098	0.1
2/9/2022				0.017		
8/2/2022	0.37					
8/10/2022		0.053	0.18			0.1
8/11/2022				0.017	0.015	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.0222 (J)					
5/24/2016		<0.2				
7/12/2016	0.0221	0.0346				
9/1/2016	0.0227	0.0336				
10/25/2016	0.0225	0.0349				
12/7/2016	0.0227					
12/8/2016		0.0339				
1/26/2017	0.0229	0.0293				
3/22/2017	0.0248					
3/23/2017		0.0313				
5/25/2017	0.0255	0.0336				
4/3/2018	0.025	0.028				
6/5/2018		0.03				
6/6/2018	0.028					
10/3/2018	0.028	0.032				
3/14/2019		0.029			0.082	
3/15/2019	0.029		0.09	0.044		
4/4/2019			0.075			
4/5/2019	0.022	0.021		0.036	0.061	
9/25/2019	0.025	0.03	0.066			
9/26/2019					0.064	
9/27/2019				0.028		
3/2/2020				0.027	0.06	
3/3/2020	0.026	0.026	0.058			
3/27/2020				0.025		
3/31/2020	0.029	0.029				
4/1/2020			0.066		0.065	0.027
6/17/2020			0.054			0.024
9/15/2020		0.03				
9/16/2020	0.025					
9/17/2020				0.02	0.057	
9/21/2020			0.049			0.024
2/11/2021	0.025	0.03	0.044			
2/12/2021					0.056	0.025
2/15/2021				0.017		
3/17/2021				0.018	0.058	
3/18/2021	0.027	0.031	0.047			0.029
8/18/2021	0.022					0.025
8/19/2021		0.031	0.042	0.018	0.05	
2/8/2022	0.021	0.02	0.033	0.014		0.02
2/10/2022					0.05	
8/10/2022	0.027	0.026				0.02 (J)
8/11/2022			0.037	0.014	0.05	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.044	0.029	0.19	
9/21/2020		0.028		
9/23/2020	0.038		0.14	
2/11/2021			0.14	
2/15/2021		0.026		
3/12/2021			0.12	
3/19/2021		0.032		
8/16/2021	0.035			
8/18/2021		0.025	0.12	0.032
2/8/2022		0.023	0.11	0.046
2/9/2022	0.04			
8/10/2022	0.046		0.11	
8/11/2022		0.022 (J)		0.028

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2016	<0.0005	0.0001 (J)		<0.0005		
7/12/2016			<0.0005			
8/30/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2016	<0.0005	0.0001 (J)	<0.0005	<0.0005		
12/6/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005		
1/24/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
3/21/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017				<0.0005		
4/2/2018	<0.0005	<0.0005		<0.0005		
4/3/2018			<0.0005			
3/11/2019				5E-05 (J)		
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)		<0.0005		
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/24/2019				<0.0005		
3/2/2020	<0.0005	0.00014 (J)	<0.0005	0.00019 (J)		
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
3/26/2020				7.6E-05 (J)		
9/15/2020	<0.0005	0.00013 (J)	<0.0005	<0.0005		
9/16/2020						<0.0005
9/17/2020				<0.0005		
11/10/2020						<0.0005
11/11/2020				<0.0005		
12/15/2020				<0.0005		<0.0005
1/19/2021						<0.0005
1/20/2021					<0.0005	
2/8/2021	<0.0005			0.00023 (J)	<0.0005	
2/9/2021		0.00014 (J)	<0.0005			<0.0005
3/10/2021	<0.0005			0.00017 (J)	<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005			<0.0005
8/11/2021	<0.0005					<0.0005
8/12/2021		0.00014 (J)	<0.0005	0.00021 (J)	<0.0005	
2/1/2022	<0.0005	0.0002 (J)	<0.0005			<0.0005
2/7/2022				0.00017 (J)	<0.0005	
8/2/2022	<0.0005	0.00019 (J)	<0.0005	0.00019 (J)		<0.0005
8/9/2022				<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0005				
5/20/2016			<0.0005			
5/23/2016				<0.0005	<0.0005	<0.0005
7/11/2016		<0.0005	<0.0005			
7/12/2016				0.0005 (J)	<0.0005	<0.0005
8/30/2016		<0.0005	<0.0005			
9/1/2016				0.0005 (J)	<0.0005	<0.0005
10/20/2016		<0.0005	<0.0005			
10/24/2016				0.0005 (J)	<0.0005	
10/25/2016						<0.0005
12/7/2016				0.0006 (J)	<0.0005	<0.0005
12/8/2016		<0.0005	<0.0005			
1/24/2017		<0.0005	<0.0005			
1/26/2017				0.0005 (J)	<0.0005	<0.0005
3/21/2017		<0.0005	<0.0005			
3/22/2017						<0.0005
3/23/2017				0.0006 (J)	<0.0005	
5/23/2017		<0.0005	<0.0005			
5/24/2017				0.0005 (J)	<0.0005	<0.0005
4/3/2018		<0.0005	<0.0005		<0.0005	<0.0005
4/4/2018				<0.0005		
3/12/2019		<0.0005	<0.0005			
3/14/2019				0.00043 (J)	<0.0005	
3/15/2019						<0.0005
4/2/2019		<0.0005	<0.0005			
4/4/2019					<0.0005	<0.0005
4/5/2019				0.00027 (J)		
9/24/2019		<0.0005	<0.0005	0.00044 (J)	<0.0005	
9/25/2019						<0.0005
3/2/2020		<0.0005	<0.0005			
3/3/2020				0.00043 (J)	<0.0005	<0.0005
3/25/2020			<0.0005			
3/26/2020		<0.0005			<0.0005	
3/30/2020				0.00043 (J)		<0.0005
9/15/2020		<0.0005	<0.0005			
9/16/2020	<0.0005					
9/17/2020					<0.0005	<0.0005
9/18/2020				0.00043 (J)		
11/10/2020	<0.0005					
12/15/2020	<0.0005					
1/19/2021	<0.0005					
2/9/2021	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005
2/11/2021				0.00044 (J)		
2/12/2021					<0.0005	
3/10/2021	<0.0005					
3/11/2021		<0.0005	<0.0005			
3/16/2021					<0.0005	
3/17/2021				0.00058		<0.0005
8/12/2021		<0.0005	<0.0005			
8/13/2021	<0.0005					
8/18/2021				0.00039 (J)		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.0005	<0.0005
2/1/2022	<0.0005					
2/7/2022		<0.0005	<0.0005			
2/8/2022					<0.0005	<0.0005
2/9/2022				0.00056		
8/2/2022	<0.0005					
8/10/2022		<0.0005	<0.0005			<0.0005
8/11/2022				0.00039 (J)	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0005					
5/24/2016		0.00278 (J)				
7/12/2016	<0.0005	0.0032				
9/1/2016	<0.0005	0.0034				
10/25/2016	<0.0005	0.0034				
12/7/2016	<0.0005					
12/8/2016		0.0033				
1/26/2017	<0.0005	0.0034				
3/22/2017	<0.0005					
3/23/2017		0.0036				
5/25/2017	<0.0005	0.0036				
4/3/2018	<0.0005	<0.0005				
3/14/2019		0.0026 (J)			<0.0005	
3/15/2019	<0.0005		<0.0005	<0.0005		
4/4/2019			<0.0005			
4/5/2019	<0.0005	0.0022 (J)		<0.0005	<0.0005	
9/25/2019	<0.0005	0.0031	<0.0005			
9/26/2019					<0.0005	
9/27/2019				<0.0005		
3/2/2020				<0.0005	<0.0005	
3/3/2020	<0.0005	0.0029 (J)	<0.0005			
3/27/2020				<0.0005		
3/31/2020	<0.0005	0.003				
4/1/2020			<0.0005		<0.0005	0.0011 (J)
6/17/2020			<0.0005			0.00099 (J)
9/15/2020		0.0033				
9/16/2020	<0.0005					
9/17/2020				4.7E-05 (J)	<0.0005	
9/21/2020			<0.0005			0.0009 (J)
2/11/2021	6.7E-05 (J)	0.0036	<0.0005			
2/12/2021					<0.0005	0.001 (J)
2/15/2021				6.2E-05 (J)		
3/17/2021				8.2E-05 (J)	<0.0005	
3/18/2021	4.8E-05 (J)	0.0038	<0.0005			0.0011
8/18/2021	<0.0005					0.00097
8/19/2021		0.0034	<0.0005	7E-05 (J)	<0.0005	
2/8/2022	<0.0005	0.0026	<0.0005	7.9E-05 (J)		0.00087 (J)
2/10/2022					<0.0005	
8/10/2022	6E-05 (J)	0.0032				0.0008
8/11/2022			<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00015 (J)	0.00032 (J)	0.00012 (J)	
9/21/2020		0.0004 (J)		
9/23/2020	<0.0005		<0.0005	
2/11/2021			<0.0005	
2/15/2021		0.0006 (J)		
3/12/2021			<0.0005	
3/19/2021		0.00061		
8/16/2021	<0.0005			
8/18/2021		0.00061	<0.0005	0.00042 (J)
2/8/2022		0.0007 (J)	<0.0005	0.00011 (J)
2/9/2022	6.5E-05 (J)			
8/10/2022	<0.0005		<0.0005	
8/11/2022		0.00066 (J)		0.00028 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04	<0.04		
7/11/2016	0.0142 (J)	0.0337 (J)		0.0175 (J)		
7/12/2016			0.0074 (J)			
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04	0.0072 (J)		
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)	0.018 (J)		
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)	0.0158 (J)		
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)	0.0145 (J)		
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)	0.0101 (J)		
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/23/2017				0.0159 (J)		
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)	0.0162 (J)		
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)	0.014 (J)		
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)	0.0093 (J)		
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)		0.01 (J)		
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/24/2019				0.013 (J)		
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
3/26/2020				0.012 (J)		
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)	0.013 (J)		
9/16/2020						0.061 (J)
9/17/2020				0.098 (J)		
11/10/2020						0.057 (J)
11/11/2020				0.058 (J)		
12/15/2020				0.043 (J)		0.052 (J)
1/19/2021						0.049 (J)
1/20/2021					0.045 (J)	
3/10/2021	0.015 (J)			0.012 (J)	0.048	
3/11/2021		0.056	0.015 (J)			0.06
8/11/2021	0.02 (J)					0.042
8/12/2021		0.044	<0.04	0.014 (J)	0.044	
2/1/2022	0.016 (J)	0.056	0.011 (J)			0.05
2/7/2022				0.017 (J)	0.047	
8/2/2022	0.012 (J)	0.047	<0.04	0.02 (J)		0.043
8/9/2022					0.055	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.04				
5/20/2016			0.0363 (J)			
5/23/2016				15.4	2.02	1.36
7/11/2016		0.0052 (J)	0.0179 (J)			
7/12/2016				16	1.65	1.62
8/30/2016		0.0068 (J)	0.014 (J)			
9/1/2016				12.3	1.93	1.31
10/20/2016		0.0135 (J)	0.0197 (J)			
10/24/2016				13.7	1.93	
10/25/2016						1.27
12/7/2016				16.5	2.23	1.42
12/8/2016		0.0083 (J)	0.0159 (J)			
1/24/2017		0.0072 (J)	<0.04			
1/26/2017				19.2	2.31	1.19
3/21/2017		<0.04	0.0166 (J)			
3/22/2017						1.32
3/23/2017				23.1	2.72	
5/23/2017		0.0095 (J)	0.0167 (J)			
5/24/2017				25.8	2.26	1.67
10/3/2017		0.0071 (J)	0.017 (J)			
10/4/2017				20.5	2	1.43
6/5/2018		0.0066 (J)	0.016 (J)			
6/6/2018				16.7	2.4	1.9
10/2/2018		0.0081 (J)	0.014 (J)			
10/3/2018				16.4	2.4	1.7
4/2/2019		0.0052 (J)	0.013 (J)			
4/4/2019					2.3	2.1
4/5/2019				12.5		
9/24/2019		0.0088 (J)	0.016 (J)	14.7	2.9	
9/25/2019						2.7
3/25/2020			0.021 (J)			
3/26/2020		0.0072 (J)			2.1	
3/30/2020				11.7		2.4
9/15/2020		0.012 (J)	0.016 (J)			
9/16/2020	0.23					
9/17/2020					2.2	2.4
9/18/2020				11		
11/10/2020	0.29					
12/15/2020	0.31					
1/19/2021	0.4					
3/10/2021	0.39					
3/11/2021		0.0075 (J)	0.018 (J)			
3/16/2021					2.4	
3/17/2021				11.8		2.7
8/12/2021		0.0092 (J)	0.014 (J)			
8/13/2021	0.31					
8/18/2021				8.6		
8/19/2021					2.1	2.5
2/1/2022	0.44					
2/7/2022		<0.04	0.019 (J)			
2/8/2022					1.9	2.6
2/9/2022				9.9		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	0.31					
8/10/2022		0.011 (J)	0.015 (J)			2.2
8/11/2022				8.8	2.1	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	5.7					
5/24/2016		9.33				
7/12/2016	9.58	11.9				
9/1/2016	5.76	8.8				
10/25/2016	5.38	8.5				
12/7/2016	5.74					
12/8/2016		7.15				
1/26/2017	5.78	9.17				
3/22/2017	5.52					
3/23/2017		10.6				
5/25/2017	8.58	13.2				
10/4/2017	6.8	10				
6/5/2018		8.4				
6/6/2018	6.3					
10/3/2018	6.9	9.3				
4/4/2019			5.2			
4/5/2019	5.9	6.4		2.1	3	
9/25/2019	8.1	11.7	6.4			
9/26/2019					3.8	
9/27/2019				2.9		
1/22/2020						11.2
3/27/2020				2.4		
3/31/2020	6.9	9.4				
4/1/2020			6.3		3.5	11.6
6/17/2020			5.8			10.3
9/15/2020		9.4				
9/16/2020	6.7					
9/17/2020				2.3	2.7	
9/21/2020			5.6			9
3/17/2021				2.7	3.4	
3/18/2021	6.8	8.9	5.7			10.2
8/18/2021	5.3					9.1
8/19/2021		8.6	5.4	2.5	3.4	
2/8/2022	7.8	8.1	5.9	3.2		8.4
2/10/2022					3.2	
8/10/2022	6.9	8.4				8
8/11/2022			5	2.5	3.3	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	9.4	11.9	0.14	
9/21/2020		12.3		
9/23/2020	10.2		0.12	
3/12/2021			0.15	
3/19/2021		11.9		
8/16/2021	8.2			
8/18/2021		11.2	0.2	9.7
2/8/2022		10.8	0.14	10.5
2/9/2022	9.6			
8/10/2022	10.2		0.11	
8/11/2022		9.6		8.2

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2016	<0.0005	<0.0005		<0.0005		
7/12/2016			<0.0005			
8/30/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
12/6/2016	<0.0005	<0.0005	<0.0005	<0.0005		
1/24/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
3/21/2017	<0.0005	7E-05 (J)	<0.0005	<0.0005		
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017				<0.0005		
4/2/2018	<0.0005	<0.0005		<0.0005		
4/3/2018			<0.0005			
6/4/2018	<0.0005	0.00014 (J)	<0.0005	<0.0005		
10/1/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/11/2019				<0.0005		
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)		<0.0005		
9/23/2019	<0.0005	<0.0005	<0.0005			
9/24/2019				<0.0005		
3/2/2020	<0.0005	<0.0005	<0.0005	<0.0005		
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
3/26/2020				<0.0005		
9/15/2020	<0.0005	0.00012 (J)	<0.0005	<0.0005		
9/16/2020						<0.0005
9/17/2020				<0.0005		
11/10/2020						<0.0005
11/11/2020				<0.0005		
12/15/2020				<0.0005		<0.0005
1/19/2021						<0.0005
1/20/2021				<0.0005		
2/8/2021	<0.0005			<0.0005	<0.0005	
2/9/2021		0.00016 (J)	<0.0005			<0.0005
3/10/2021	<0.0005			<0.0005	<0.0005	
3/11/2021		<0.0005	<0.0005			<0.0005
8/11/2021	<0.0005					<0.0005
8/12/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/1/2022	<0.0005	0.00017 (J)	<0.0005			<0.0005
2/7/2022				<0.0005	<0.0005	
8/2/2022	<0.0005	0.00023 (J)	<0.0005	<0.0005		<0.0005
8/9/2022				<0.0005		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0005				
5/20/2016			<0.0005			
5/23/2016				0.000139 (J)	0.00271 (J)	<0.0005
7/11/2016		<0.0005	<0.0005			
7/12/2016				<0.0005	0.0019	<0.0005
8/30/2016		<0.0005	<0.0005			
9/1/2016				0.0001 (J)	0.0017	<0.0005
10/20/2016		<0.0005	<0.0005			
10/24/2016				0.0002 (J)	0.0018	
10/25/2016						<0.0005
12/7/2016				0.0001 (J)	0.0018	<0.0005
12/8/2016		<0.0005	<0.0005			
1/24/2017		<0.0005	<0.0005			
1/26/2017				0.0001 (J)	0.0013	<0.0005
3/21/2017		<0.0005	<0.0005			
3/22/2017						<0.0005
3/23/2017				0.0002 (J)	0.002	
5/23/2017		<0.0005	<0.0005			
5/24/2017				0.0001 (J)	0.0041	<0.0005
4/3/2018		<0.0005	<0.0005		0.0022	<0.0005
4/4/2018				<0.0005		
6/5/2018		<0.0005	<0.0005			
6/6/2018				0.00012 (J)	0.0021	<0.0005
10/2/2018		<0.0005	<0.0005			
10/3/2018				0.0001 (J)	0.0026	<0.0005
3/12/2019		<0.0005	<0.0005			
3/14/2019				<0.0005	0.0024	
3/15/2019						<0.0005
4/2/2019		<0.0005	<0.0005			
4/4/2019					0.0018	<0.0005
4/5/2019				7.9E-05 (J)		
9/24/2019		<0.0005	<0.0005	<0.0005	0.0014 (J)	
9/25/2019						<0.0005
3/2/2020		<0.0005	<0.0005			
3/3/2020				<0.0005	0.0015 (J)	<0.0005
3/25/2020			<0.0005			
3/26/2020		<0.0005			0.0016 (J)	
3/30/2020				<0.0005		<0.0005
9/15/2020		<0.0005	<0.0005			
9/16/2020	<0.0005					
9/17/2020					0.0016 (J)	<0.0005
9/18/2020				<0.0005		
11/10/2020	<0.0005					
12/15/2020	<0.0005					
1/19/2021	<0.0005					
2/9/2021	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005
2/11/2021				<0.0005		
2/12/2021					0.0014 (J)	
3/10/2021	<0.0005					
3/11/2021		<0.0005	<0.0005			
3/16/2021					0.0011	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.0005		<0.0005
8/12/2021		<0.0005	<0.0005			
8/13/2021	<0.0005					
8/18/2021				0.00013 (J)		
8/19/2021					0.0012	<0.0005
2/1/2022	<0.0005					
2/7/2022		<0.0005	<0.0005			
2/8/2022					0.0011	<0.0005
2/9/2022				<0.0005		
8/2/2022	<0.0005					
8/10/2022		<0.0005	<0.0005			<0.0005
8/11/2022				<0.0005	0.00095	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0005					
5/24/2016		<0.0005				
7/12/2016	<0.0005	0.0022				
9/1/2016	<0.0005	0.0024				
10/25/2016	<0.0005	0.0022				
12/7/2016	<0.0005					
12/8/2016		0.0024				
1/26/2017	<0.0005	0.0025				
3/22/2017	7E-05 (J)					
3/23/2017		0.0025				
5/25/2017	<0.0005	0.0027				
4/3/2018	<0.0005	0.0022				
6/5/2018		0.0022				
6/6/2018	<0.0005					
10/3/2018	<0.0005	0.0027				
3/14/2019		0.0019			<0.0005	
3/15/2019	<0.0005		<0.0005	0.00082 (J)		
4/4/2019			<0.0005			
4/5/2019	<0.0005	0.0017		0.00064 (J)	<0.0005	
9/25/2019	<0.0005	0.0023 (J)	<0.0005			
9/26/2019					<0.0005	
9/27/2019				0.0014 (J)		
3/2/2020				0.0021 (J)	<0.0005	
3/3/2020	<0.0005	0.0021 (J)	<0.0005			
3/27/2020				0.0019 (J)		
3/31/2020	<0.0005	0.0017 (J)				
4/1/2020			<0.0005		<0.0005	0.00022 (J)
6/17/2020			<0.0005			0.00021 (J)
9/15/2020		0.0019 (J)				
9/16/2020	<0.0005					
9/17/2020				0.0021 (J)	0.0006 (J)	
9/21/2020			<0.0005			0.00016 (J)
2/11/2021	<0.0005	0.0016 (J)	<0.0005			
2/12/2021					0.00045 (J)	0.00017 (J)
2/15/2021				0.002 (J)		
3/17/2021				0.0022	0.00057	
3/18/2021	<0.0005	0.0015	<0.0005			0.00019 (J)
8/18/2021	<0.0005					0.00017 (J)
8/19/2021		0.0014	<0.0005	0.0021	0.00012 (J)	
2/8/2022	<0.0005	0.00076	<0.0005	0.002		0.00013 (J)
2/10/2022					0.00024 (J)	
8/10/2022	<0.0005	0.0017				<0.0005
8/11/2022			<0.0005	0.002	0.00021 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	<0.0005	0.00053 (J)	<0.0005	
9/21/2020		0.001 (J)		
9/23/2020	<0.0005		<0.0005	
2/11/2021			<0.0005	
2/15/2021		0.0017 (J)		
3/12/2021			<0.0005	
3/19/2021		0.0018		
8/16/2021	0.00023 (J)			
8/18/2021		0.0015	<0.0005	0.00094
2/8/2022		0.0015	<0.0005	0.00024 (J)
2/9/2022	0.00072			
8/10/2022	0.00041 (J)		<0.0005	
8/11/2022		0.0013 (J)		0.00045 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	138	22.9	76.2	48.4		
7/11/2016	97.2	22.3		73		
7/12/2016			61.5			
8/30/2016	97.5	26.4	65.1	85.7		
10/19/2016	99.2	21.7	73.2	89.7		
12/6/2016	105	18.2	74.9	80		
1/24/2017	95.7	18.5	69.6	30.8		
3/21/2017	106	18.6	75.7	34		
5/22/2017	107	17.8	71.5			
5/23/2017				43		
10/3/2017	102	20.2	76.3	46.9		
6/4/2018	124	19.1	73.4	81.9		
10/1/2018	108	20.5 (J)	80.9	22 (J)		
4/1/2019			80.5			
4/2/2019	132	22.5 (J)		76		
9/23/2019	118	19.5	71			
9/24/2019				36.6		
3/25/2020	127	23	89.8			
3/26/2020				14.9		
9/15/2020	103	21.1	73.1	20.4		
9/16/2020						56
9/17/2020				43.8		
11/10/2020						63.3
11/11/2020				44.4		
12/15/2020				47.3		62.6
1/19/2021						60.1
1/20/2021				41.8		
3/10/2021	111			5.9	43.4	
3/11/2021		43.8	83.8			59.6
8/11/2021	113					61
8/12/2021		21.9	84	5.4	43.6	
2/1/2022	106	27.2	85.1			55.9
2/7/2022				5.9	48.7	
8/2/2022	117	31.2	84.6	6		54.1
8/9/2022				44.1		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		35.5				
5/20/2016			56.1			
5/23/2016				664	184	146
7/11/2016		35.4	49.3			
7/12/2016				528	186	142
8/30/2016		28	53.9			
9/1/2016				586	189	141
10/20/2016		26.7	50.7			
10/24/2016				564	200	
10/25/2016						138
12/7/2016				590	203	146
12/8/2016		23.5	49.2			
1/24/2017		24.5	48.3			
1/26/2017				558	212	139
3/21/2017		30.8	51.3			
3/22/2017						150
3/23/2017				652	229	
5/23/2017		24.2	49.1			
5/24/2017				617	265	153
10/3/2017		29	55.1			
10/4/2017				644	230	156
6/5/2018		27.8	54.5			
6/6/2018				606	250	177
10/2/2018		28.9	54.7			
10/3/2018				558	234	160
4/2/2019		26.3	49.7			
4/4/2019					214	196
4/5/2019				606		
9/24/2019		29.3	52.5	507	202	
9/25/2019						185
3/25/2020			58.1			
3/26/2020		27.8			240	
3/30/2020				600		208
9/15/2020		27.9	49.9			
9/16/2020	30					
9/17/2020					188	190
9/18/2020				623		
11/10/2020	33.6					
12/15/2020	28.7					
1/19/2021	33					
3/10/2021	18.3					
3/11/2021		28.3	53.1			
3/16/2021					196	
3/17/2021				572		198
8/12/2021		32	54.7			
8/13/2021	28.9					
8/18/2021				583		
8/19/2021					203	207
2/1/2022	24.8					
2/7/2022		30	53.4			
2/8/2022					186	218
2/9/2022				571		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	20.9					
8/10/2022		27.4	55.7			207
8/11/2022				519	210	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	225					
5/24/2016		403				
7/12/2016	199	328				
9/1/2016	213	379				
10/25/2016	206	362				
12/7/2016	212					
12/8/2016		366				
1/26/2017	198	394				
3/22/2017	239					
3/23/2017		440				
5/25/2017	292	492				
10/4/2017	305	470				
6/5/2018		425				
6/6/2018	299					
10/3/2018	286	421				
4/4/2019			427			
4/5/2019	340	400		178	352	
9/25/2019	305	437	420			
9/26/2019					306	
9/27/2019				202		
1/22/2020						638
3/27/2020				212		
3/31/2020	328	418				
4/1/2020			438		342	567
6/17/2020			434			561
9/15/2020		430				
9/16/2020	277					
9/17/2020				203	361	
9/21/2020			428			562
3/17/2021				200	341	
3/18/2021	266	407	382			574
8/18/2021	281					549
8/19/2021		416	365	203	307	
2/8/2022	280	418	366	221		548
2/10/2022					288	
8/10/2022	316	433				498
8/11/2022			430	198	315	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	584	517	165	
9/21/2020		503		
9/23/2020	556		158	
3/12/2021			170	
3/19/2021		552		
8/16/2021	554			
8/18/2021		546	180	532
2/8/2022		519	167	537
2/9/2022	557			
8/10/2022	585		113	
8/11/2022		499		521

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	9.94	6.14	5.93	4.56		
7/11/2016	6.3	5.9		5		
7/12/2016			6.2			
8/30/2016	6	6.2	6.4	4.9		
10/19/2016	5.8	6.1	6.5	4.6		
12/6/2016	5.4	6	7.2	4.5		
1/24/2017	5.2	6.1	6.4	4.7		
3/21/2017	4.6	5.9	7.5	4.3		
5/22/2017	4.6	5.9	6.5			
5/23/2017				4.5		
10/3/2017	5.6	6.3	6.5	4.8		
6/4/2018	13.1	6.1	6.3	4.5		
10/1/2018	6.6	6.4	6.4	3.8		
4/1/2019			6.5			
4/2/2019	20.3	5.8		4.4		
9/23/2019	17.7	5.1	5.9			
9/24/2019				3.6		
3/25/2020	20.4	5.2	6.1			
3/26/2020				3.4		
9/15/2020	13.4	5	6	3.3		
9/16/2020						4.1
9/17/2020				5.8		
11/10/2020						4.4
11/11/2020				3.1		
12/15/2020				3.2		4.7
1/19/2021						4.1
1/20/2021				2.8		
3/10/2021	7.4			2.9	3	
3/11/2021		5.1	5.9			4.5
8/11/2021	9.6					3.5
8/12/2021		5.2	4.8	2.4	2.6	
2/1/2022	7.5	7	5.7			4.1
2/7/2022				2.4	3.1	
8/2/2022	14.1	7.8	5.9	2.9		4.3
8/9/2022				3.7		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		1.57				
5/20/2016			1.35			
5/23/2016				659	209	25.8
7/11/2016		2	1.7			
7/12/2016				620	190	34
8/30/2016		2	1.6			
9/1/2016				510	200	34
10/20/2016		2.2	1.6			
10/24/2016				110	200	
10/25/2016						35
12/7/2016				510	240	38
12/8/2016		2	1.6			
1/24/2017		1.6	1.9			
1/26/2017				640	260	41
3/21/2017		2	1.3			
3/22/2017						41
3/23/2017				600	280	
5/23/2017		1.7	1.2			
5/24/2017				510	240	44
10/3/2017		1.7	2.1			
10/4/2017				420	210	50
6/5/2018		1.6	1.2			
6/6/2018				357	196	50.6
10/2/2018		2.4	1.7			
10/3/2018				368	200	49.9
4/2/2019		1.7	1.6			
4/4/2019					138	76.8
4/5/2019				227		
9/24/2019		1.7	1.3	188	120	
9/25/2019						84.4
3/25/2020			1.2			
3/26/2020		1.4			142	
3/30/2020				236		80.2
9/15/2020		1.7	1.2			
9/16/2020	7.2					
9/17/2020					108	99.3
9/18/2020				288		
11/10/2020	7.8					
12/15/2020	9.4					
1/19/2021	9.5					
3/10/2021	12.3					
3/11/2021		1.4	1.2			
3/16/2021					103	
3/17/2021				233		93.8
8/12/2021		1.4	0.94 (J)			
8/13/2021	39.9					
8/18/2021				141		
8/19/2021					89.9	90.1
2/1/2022	44.8					
2/7/2022		1.4	1.1			
2/8/2022					76.6	96.4
2/9/2022				174		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	19.8					
8/10/2022		2.1	1.3			98.3
8/11/2022				147	89.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	94					
5/24/2016		280				
7/12/2016	100	300				
9/1/2016	95	270				
10/25/2016	98	290				
12/7/2016	89					
12/8/2016		300				
1/26/2017	99	340				
3/22/2017	100					
3/23/2017		350				
5/25/2017	99	290				
10/4/2017	130	260				
6/5/2018		261				
6/6/2018	166					
10/3/2018	193	302				
4/4/2019			299			
4/5/2019	195	217		131	195	
9/25/2019	139	181	245			
9/26/2019					204	
9/27/2019				176		
1/22/2020						231
3/27/2020				141		
3/31/2020	161	126				
4/1/2020			236		166	242
6/17/2020			223			250
9/15/2020		150				
9/16/2020	156					
9/17/2020				153	171	
9/21/2020			236			273
3/17/2021				127	151	
3/18/2021	138	90.2	208			199
8/18/2021	90.7					118
8/19/2021		95.8	173	118	137	
2/8/2022	117	105	196	110		166
2/10/2022					138	
8/10/2022	148	95.2				120
8/11/2022			216	125	124	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	259	229	151	
9/21/2020		257		
9/23/2020	294		166	
3/12/2021			124	
3/19/2021		250		
8/16/2021	264			
8/18/2021		149	122	123
2/8/2022		202	151	194
2/9/2022	251			
8/10/2022	185		84.8	
8/11/2022		172		144

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	<0.005	<0.005	<0.005		
7/11/2016	<0.005	<0.005		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	<0.005	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	0.0005 (J)	<0.005	<0.005	0.0004 (J)		
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
3/11/2019				<0.005		
3/12/2019	<0.005	<0.005	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)		0.019		
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	0.00041 (J)	<0.005	0.0004 (J)		
3/25/2020	0.00072 (J)	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020					0.00063 (J)	
12/15/2020					0.0025 (J)	<0.005
1/19/2021						<0.005
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	0.00078 (J)	
2/9/2021		<0.005	<0.005			0.00095 (J)
3/10/2021	<0.005			<0.005	<0.005	
3/11/2021		<0.005	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	<0.005	<0.005	<0.005			<0.005
2/7/2022				<0.005	<0.005	
8/2/2022	<0.005	<0.005	<0.005	<0.005		<0.005
8/9/2022					<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				<0.005	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				<0.005	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				<0.005	<0.005	
10/25/2016						<0.005
12/7/2016				<0.005	<0.005	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		<0.005	<0.005			
1/26/2017				<0.005	<0.005	<0.005
3/21/2017		<0.005	0.0007 (J)			
3/22/2017						0.0021 (J)
3/23/2017				<0.005	0.0005 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				<0.005	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				<0.005		
3/12/2019		<0.005	<0.005			
3/14/2019				<0.005	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					<0.005	<0.005
4/5/2019				<0.005		
9/24/2019		<0.005	<0.005	<0.005	0.00041 (J)	
9/25/2019						<0.005
3/2/2020		0.0005 (J)	<0.005			
3/3/2020				0.00042 (J)	<0.005	0.00071 (J)
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.00066 (J)		0.0004 (J)
9/15/2020		<0.005	<0.005			
9/16/2020	0.0012 (J)					
9/17/2020					<0.005	<0.005
9/18/2020				<0.005		
11/10/2020	0.00089 (J)					
12/15/2020	0.00072 (J)					
1/19/2021	0.0011 (J)					
2/9/2021	0.00066 (J)	<0.005	<0.005			
2/10/2021						<0.005
2/11/2021				<0.005		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		0.0011 (J)	<0.005			
3/16/2021					0.0012 (J)	
3/17/2021				<0.005		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	0.0016 (J)					
8/18/2021				<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.005	<0.005
2/1/2022	0.0013 (J)					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				<0.005		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		<0.005				
7/12/2016	<0.005	<0.005				
9/1/2016	<0.005	<0.005				
10/25/2016	<0.005	<0.005				
12/7/2016	<0.005					
12/8/2016		<0.005				
1/26/2017	<0.005	<0.005				
3/22/2017	<0.005					
3/23/2017		0.0005 (J)				
5/25/2017	<0.005	<0.005				
4/3/2018	<0.005	<0.005				
3/14/2019		<0.005			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			<0.005			
4/5/2019	<0.005	<0.005		<0.005	<0.005	
9/25/2019	<0.005	<0.005	<0.005			
9/26/2019					<0.005	
9/27/2019				0.0004 (J)		
3/2/2020				<0.005	<0.005	
3/3/2020	0.0018 (J)	0.0004 (J)	<0.005			
3/27/2020				<0.005		
3/31/2020	<0.005	<0.005				
4/1/2020			<0.005		0.00086 (J)	0.00069 (J)
6/17/2020			0.00057 (J)			<0.005
9/15/2020		0.00063 (J)				
9/16/2020	<0.005					
9/17/2020				<0.005	<0.005	
9/21/2020			<0.005			<0.005
2/11/2021	0.00074 (J)	<0.005	<0.005			
2/12/2021					<0.005	<0.005
2/15/2021				<0.005		
3/17/2021				0.00075 (J)	0.00083 (J)	
3/18/2021	0.00069 (J)	<0.005	0.00074 (J)			<0.005
8/18/2021	<0.005					<0.005
8/19/2021		<0.005	<0.005	<0.005	<0.005	
2/8/2022	<0.005	<0.005	<0.005	<0.005		<0.005
2/10/2022					<0.005	
8/10/2022	<0.005	<0.005				<0.005
8/11/2022			<0.005	<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0059 (J)	<0.005	0.0048 (J)	
9/21/2020		0.00079 (J)		
9/23/2020	<0.005		<0.005	
2/11/2021			0.0014 (J)	
2/15/2021		<0.005		
3/12/2021			<0.005	
3/19/2021		0.00083 (J)		
8/16/2021	<0.005			
8/18/2021		<0.005	<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005
2/9/2022	<0.005			
8/10/2022	<0.005		<0.005	
8/11/2022		<0.005		<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	0.0293	<0.005	<0.005		
7/11/2016	0.0004 (J)	0.0267		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	0.028	<0.005	<0.005		
10/19/2016	<0.005	0.0201	<0.005	<0.005		
12/6/2016	<0.005	0.0184	<0.005	<0.005		
1/24/2017	<0.005	0.0206	<0.005	<0.005		
3/21/2017	<0.005	0.0251	<0.005	<0.005		
5/22/2017	<0.005	0.0263	<0.005			
5/23/2017				<0.005		
4/2/2018	<0.005	0.019		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	0.025	<0.005	<0.005		
10/1/2018	<0.005	0.026	<0.005	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	0.017	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	0.019		<0.005		
9/23/2019	<0.005	0.038	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	0.019	<0.005	0.00063 (J)		
3/25/2020	<0.005	0.02	<0.005			
3/26/2020				0.00058 (J)		
9/15/2020	<0.005	0.021	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020				<0.005		
12/15/2020				0.00049 (J)		<0.005
1/19/2021						<0.005
1/20/2021				<0.005		
2/8/2021	<0.005			0.00074 (J)	<0.005	
2/9/2021		0.02	<0.005			<0.005
3/10/2021	<0.005			0.00065 (J)	<0.005	
3/11/2021		0.013	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		0.022	<0.005	0.0007 (J)	<0.005	
2/1/2022	<0.005	0.025	<0.005			<0.005
2/7/2022				0.00068 (J)	<0.005	
8/2/2022	0.00054 (J)	0.024	<0.005	0.00066 (J)		<0.005
8/9/2022				<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				<0.005	0.0419 (J)	<0.005
7/11/2016		0.001 (J)	<0.005			
7/12/2016				0.0232	0.0393	<0.005
8/30/2016		0.001 (J)	<0.005			
9/1/2016				0.0248	0.045	<0.005
10/20/2016		0.0008 (J)	<0.005			
10/24/2016				0.0253	0.0557	
10/25/2016						<0.005
12/7/2016				0.0269	0.0536	<0.005
12/8/2016		0.0006 (J)	<0.005			
1/24/2017		0.0006 (J)	<0.005			
1/26/2017				0.0294	0.055	<0.005
3/21/2017		0.0008 (J)	<0.005			
3/22/2017						<0.005
3/23/2017				0.0311	0.0715	
5/23/2017		0.0006 (J)	<0.005			
5/24/2017				0.0279	0.0446	<0.005
4/3/2018		<0.005	<0.005		0.032	<0.005
4/4/2018				0.025		
6/5/2018		<0.005	<0.005			
6/6/2018				0.027	0.032	<0.005
10/2/2018		<0.005	<0.005			
10/3/2018				0.023	0.051	<0.005
3/12/2019		0.00099 (J)	<0.005			
3/14/2019				0.025	0.038	
3/15/2019						<0.005
4/2/2019		0.0012 (J)	<0.005			
4/4/2019					0.035	0.00028 (J)
4/5/2019				0.021		
9/24/2019		0.00063 (J)	<0.005	0.026	0.022	
9/25/2019						<0.005
3/2/2020		0.00093 (J)	<0.005			
3/3/2020				0.029	0.03	0.00037 (J)
3/25/2020			<0.005			
3/26/2020		0.0013 (J)			0.022	
3/30/2020				0.028		<0.005
9/15/2020		0.00047 (J)	<0.005			
9/16/2020	<0.005					
9/17/2020					0.026	<0.005
9/18/2020				0.027		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	<0.005	0.00071 (J)	<0.005			
2/10/2021						<0.005
2/11/2021				0.033		
2/12/2021					0.019	
3/10/2021	<0.005					
3/11/2021		0.0013 (J)	<0.005			
3/16/2021					0.018	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.034		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.033		
8/19/2021					0.011	<0.005
2/1/2022	<0.005					
2/7/2022		0.00055 (J)	<0.005			
2/8/2022					0.0081	<0.005
2/9/2022				0.038		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				0.037	0.0088	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.0167					
5/24/2016		0.17 (J)				
7/12/2016	0.0148	0.168				
9/1/2016	0.0151	0.18				
10/25/2016	0.0141	0.188				
12/7/2016	0.0141					
12/8/2016		0.206				
1/26/2017	0.0154	0.195				
3/22/2017	0.0169					
3/23/2017		0.223				
5/25/2017	0.0154	0.209				
4/3/2018	0.016	0.19				
6/5/2018		0.19				
6/6/2018	0.018					
10/3/2018	0.016	0.19				
3/14/2019		0.16			0.0013 (J)	
3/15/2019	0.017		<0.005	0.028		
4/4/2019			0.00034 (J)			
4/5/2019	0.016	0.14		0.022	0.0012 (J)	
9/25/2019	0.015	0.18	<0.005			
9/26/2019					0.00098 (J)	
9/27/2019				0.035		
1/22/2020						0.052
3/2/2020				0.043	0.0011 (J)	
3/3/2020	0.016	0.15	<0.005			
3/27/2020				0.025		
3/31/2020	0.016	0.16				
4/1/2020			<0.005		0.0011 (J)	0.058
6/17/2020			<0.005			0.053
9/15/2020		0.16				
9/16/2020	0.013					
9/17/2020				0.029	0.00096 (J)	
9/21/2020			<0.005			0.047
2/11/2021	0.012	0.14	<0.005			
2/12/2021					0.001 (J)	0.055
2/15/2021				0.038		
3/17/2021				0.039	0.0011 (J)	
3/18/2021	0.012	0.14	<0.005			0.057
8/18/2021	0.009					0.054
8/19/2021		0.15	<0.005	0.022	0.00089 (J)	
2/8/2022	0.0066	0.16	<0.005	0.034		0.048
2/10/2022					0.001 (J)	
8/10/2022	0.012	0.16				0.046
8/11/2022			<0.005	0.015	0.00088 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.011	0.091	0.0015 (J)	
9/21/2020		0.084		
9/23/2020	0.0056		<0.005	
2/11/2021			0.00048 (J)	
2/15/2021		0.095		
3/12/2021			<0.005	
3/19/2021		0.1		
8/16/2021	0.0093			
8/18/2021		0.085	<0.005	0.03
2/8/2022		0.09	<0.005	0.031
2/9/2022	0.0065			
8/10/2022	0.0066		<0.005	
8/11/2022		0.082		0.027

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.397 (U)	0.627 (U)	0.342 (U)	0.662 (U)		
7/11/2016	0.738 (U)	1.38		1.19		
7/12/2016			0.499 (U)			
8/30/2016	0.581 (U)	1.05 (U)	0.976 (U)	0.847 (U)		
10/19/2016	0.213 (U)	1.11 (U)	0.626 (U)	2.34		
12/6/2016	0.444 (U)	0.741 (U)	0.805 (U)	0.925 (U)		
1/24/2017	0.373 (U)	0.908 (U)	0.336 (U)	0.607 (U)		
3/21/2017	0.816 (U)	0.567 (U)	0.358 (U)	0.074 (U)		
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/23/2017				0.55 (U)		
4/2/2018	0.405 (U)	0.761 (U)		0.371 (U)		
4/3/2018			0.684 (U)			
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)	0.622 (U)		
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)	0.132 (U)		
3/11/2019				0.781 (U)		
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)		0.494 (U)		
9/24/2019				0.455 (U)		
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)	0.937 (U)		
3/25/2020	4.36	0.621 (U)	0.833 (U)			
3/26/2020				0.578 (U)		
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)	0.179 (U)		
9/16/2020						0.531 (U)
9/17/2020				0.665 (U)		
11/10/2020						0.788 (U)
11/11/2020				1.28		
12/15/2020				0.261 (U)		1.04 (U)
1/19/2021						0.685 (U)
1/20/2021				0.845 (U)		
2/8/2021	0.223 (U)			0.558 (U)	0.429 (U)	
2/9/2021		0.721 (U)	0.447 (U)			0.138 (U)
3/10/2021	0 (U)			0.281 (U)	1.21	
3/11/2021		0.737 (U)	0.128 (U)			1.51 (U)
8/11/2021	0.115 (U)					0.394 (U)
8/12/2021		0.746 (U)	0.389 (U)	0.359 (U)	0.11 (U)	
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)			1.12
2/7/2022				0.0978 (U)	0.066 (U)	
8/2/2022	0.203 (U)	0.861 (U)	0.4 (U)	0.963 (U)		0.662 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.685 (U)				
5/20/2016			0.843 (U)			
5/23/2016				0.568 (U)	0.171 (U)	
7/1/2016						0 (U)
7/11/2016		1.68	0.494 (U)			
7/12/2016				1.31	0.611 (U)	0.182 (U)
8/30/2016		2.42	0.946 (U)			
9/1/2016				1.64	0.766 (U)	1.23
10/20/2016		0.351 (U)	0.664 (U)			
10/24/2016				1.88	0.969	
10/25/2016						1.05 (U)
12/7/2016				1.35	0.302 (U)	1.11 (U)
12/8/2016		0.905 (U)	0.421 (U)			
1/24/2017		0.0774 (U)	0.965 (U)			
1/26/2017				2.1	0.626 (U)	1.29 (U)
3/21/2017		0.0599 (U)	0.139 (U)			
3/22/2017						0.453 (U)
3/23/2017				1.17	0.662 (U)	
5/23/2017		0.477 (U)	0.308 (U)			
5/24/2017				1 (U)	0.202 (U)	1.05 (U)
4/3/2018		0.858 (U)	0.828 (U)		0.384 (U)	0.783 (U)
4/4/2018				1.72		
6/5/2018		0.767 (U)	0.424 (U)			
6/6/2018				1.31 (U)	1.32 (U)	0.595 (U)
10/2/2018		0.489 (U)	0.643 (U)			
10/3/2018				1.48	0.858 (U)	1.03 (U)
3/12/2019		0.833 (U)	0.982 (U)			
3/14/2019				1.5	0.462 (U)	
3/15/2019						0.591 (U)
4/2/2019		1.07 (U)	0.621 (U)			
4/4/2019					0.512 (U)	0.96 (U)
4/5/2019				1.43 (U)		
9/24/2019		0.201 (U)	0.874 (U)	1.17	0.582 (U)	
9/25/2019						0.643 (U)
3/2/2020		0.547 (U)	0.676 (U)			
3/3/2020				1.84	1.43	1.32 (U)
3/25/2020			0.509 (U)			
3/26/2020		0.907 (U)			0.855 (U)	
3/30/2020				1.08 (U)		0.288 (U)
9/15/2020		0.601 (U)	1.36 (U)			
9/16/2020	0.422 (U)					
9/17/2020					0.395 (U)	1.1 (U)
9/18/2020				1.8 (U)		
11/10/2020	0.293 (U)					
12/15/2020	0.7 (U)					
1/19/2021	0.79 (U)					
2/9/2021	0.486 (U)	0.37 (U)	0.324 (U)			
2/10/2021						0.773 (U)
2/11/2021				0.73 (U)		
2/12/2021					1.65	
3/10/2021	0.811 (U)					
3/11/2021		1.07 (U)	0.601 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/16/2021					0.801 (U)	
3/17/2021				1.84		0.228 (U)
8/12/2021		0.922 (U)	0.0804 (U)			
8/13/2021	1.2					
8/18/2021				0.858 (U)		
8/19/2021					0.527 (U)	0.668 (U)
2/1/2022	0.665 (U)					
2/7/2022		0.106 (U)	0.346 (U)			
2/8/2022					0.0242 (U)	0.168 (U)
2/9/2022				0.346 (U)		
8/2/2022	0.952 (U)					
8/10/2022		0.568 (U)	0.648 (U)			
8/11/2022				1.31	0.656 (U)	0.249 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.618 (U)					
5/24/2016		1.82				
7/12/2016	0.867	1.76				
9/1/2016	0.857 (U)	1.51				
10/25/2016	1.11 (U)	2.69				
12/7/2016	0.964 (U)					
12/8/2016		2.21				
1/26/2017	0.612 (U)	2.26				
3/22/2017	0.437 (U)					
3/23/2017		1.81				
5/25/2017	1.21 (U)	1.63				
4/3/2018	0.409 (U)	2.53				
6/5/2018		1.91				
6/6/2018	0.772 (U)					
10/3/2018	1.08 (U)	2.22				
3/14/2019		1.37 (U)			0.872 (U)	
3/15/2019	0.917 (U)		0.972 (U)	0.977		
4/4/2019			0.791 (U)			
4/5/2019	1.07 (U)	2.22		1.06 (U)	0.932 (U)	
9/25/2019	1.54	2.77	0.751 (U)			
9/26/2019					1.25	
9/27/2019				1.44 (U)		
3/2/2020				0.872 (U)	0.964 (U)	
3/3/2020	1.33	2.35	1.94			
3/27/2020				0.96 (U)		
3/31/2020	0.591 (U)	2.7				
4/1/2020			0.758 (U)		0.914 (U)	2.57
6/17/2020			0.691 (U)			1.43 (U)
9/15/2020		1.65				
9/16/2020	0.295 (U)					
9/17/2020				0.0879 (U)	0.32 (U)	
9/21/2020			0.436 (U)			2.53
2/11/2021	0.831 (U)	1.11	0.317 (U)			
2/12/2021					1.21 (U)	2.26
2/15/2021				0.215 (U)		
3/17/2021				0.981 (U)	0.579 (U)	
3/18/2021	0.856 (U)	1.63	0.5 (U)			0.733 (U)
8/18/2021	0.548 (U)					1.77
8/19/2021		1.45	1.17	0.689 (U)	0.69 (U)	
2/8/2022	1 (U)	0.93 (U)	0.463 (U)	0.0657 (U)		0.967 (U)
2/10/2022					0.919 (U)	
8/11/2022	0.361 (U)	1.46	0.691 (U)	0.789 (U)	0.39 (U)	1.52

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	1.36	2.02	1.79	
9/21/2020		3.85		
9/23/2020	0.563 (U)		0.98 (U)	
2/11/2021			0.12 (U)	
2/15/2021		1.52		
3/12/2021			0.578 (U)	
3/19/2021		0.524 (U)		
8/16/2021	0.693 (U)			
8/18/2021		1.67	1.31	0.973 (U)
2/8/2022		1.38	0.345 (U)	0.431 (U)
2/9/2022	0.297 (U)			
8/11/2022	1.05	1.71	0.505 (U)	1.02

Time Series

Constituent: Field pH (s.u.) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	7.27	5.81	7.45	6.51		
7/11/2016	7.06	5.68		6.65		
7/12/2016			7.32			
8/30/2016	7.28	5.63	7.43	7.14		
10/19/2016	7.02	5.46	7.03	7.08		
12/6/2016	7.09	5.38	7.08	7		
1/24/2017	7.2	5.37	7.39	6.16		
3/21/2017	7.01	4.9	6.83	6.07		
5/22/2017	7.11	5.2	7.02			
5/23/2017				6.28		
10/3/2017	7.21	5.3	7.47	6.45		
4/2/2018	7.1	5.4		6.23		
4/3/2018			7.38			
6/4/2018	7.06	5.27	7.38	6.82		
10/1/2018	7.09	5.31	7.13	5.73		
3/11/2019				6.27		
3/12/2019	7.03	5.42	7.29			
4/1/2019			7.16			
4/2/2019	6.86	5.41		6.66		
9/23/2019	7.02	5.33	7.3			
9/24/2019				6.16		
3/2/2020	7.1	5.43	7.12	5.63		
3/25/2020	6.95	5.36	7.4			
3/26/2020				5.77		
9/15/2020	7.15	5.22	7.29	5.75		
9/16/2020						7.52
9/17/2020				7.62		
11/10/2020						7.27
11/11/2020				7.68		
12/15/2020				7.64		7.39
1/19/2021						7.39
1/20/2021				7.68		
2/8/2021	7.11			4.94	7.64	
2/9/2021		5.42	7.23			7.44
3/10/2021	6.95			5.28	7.7	
3/11/2021		5.8	7.33			7.46
8/11/2021	6.98					7.4
8/12/2021		5.05	7.31	5.26	7.7	
2/1/2022	7.19	5.24	7.45			7.52
2/7/2022				5.24	7.85	
8/2/2022	7.03	4.57	7.02	4.86		7.15
8/9/2022				7.58		

Time Series

Constituent: Field pH (s.u.) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		6.62				
5/20/2016			7.58			
5/23/2016				4.56	6.17	7.15
7/11/2016		6.54	7.32			
7/12/2016				4.49	6.17	7.1
8/30/2016		6.38	7.69			
9/1/2016				4.54	6.22	7.29
10/20/2016		6.52	7.43			
10/24/2016				4.63	5.97	
10/25/2016						7.03
12/7/2016				4.6	5.87	6.85
12/8/2016		6.5	7.56			
1/24/2017		6.59	7.52			
1/26/2017				4.8	6.05	7.07
3/21/2017		6.55	7.4			
3/22/2017						7.15
3/23/2017				4.57	5.79	
5/23/2017		6.5	7.53			
5/24/2017				4.61	6.01	7.11
10/3/2017		6.63	7.51			
10/4/2017				4.74	5.82	7.17
4/3/2018		6.59	7.53		5.98	7.07
4/4/2018				4.5		
6/5/2018		6.44	7.37			
6/6/2018				4.49	6.12	7
10/2/2018		6.35	7.36			
10/3/2018				4.67	5.92	6.94
3/12/2019		6.42	7.5			
3/14/2019				4.66	5.71	
3/15/2019						7.09
4/2/2019		6.38	7.46			
4/4/2019					5.66	6.95
4/5/2019				4.67		
9/24/2019		6.4	7.41	4.77	6.33	
9/25/2019						6.92
3/2/2020		6.8	7.67			
3/3/2020				4.77	6	7.1
3/25/2020			7.39			
3/26/2020		6.38			6.03	
3/30/2020				4.57		7.09
9/15/2020		6.33	7.37			
9/16/2020	7.83					
9/17/2020					6.11	7.11
9/18/2020				4.88		
11/10/2020	7.84					
12/15/2020	7.87					
1/19/2021	7.86					
2/9/2021	7.84	6.35	7.4			
2/10/2021						7.08
2/11/2021				4.84		
2/12/2021					5.99	
3/10/2021	7.92					

Time Series

Constituent: Field pH (s.u.) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/11/2021		6.48	7.56			
3/16/2021					6.08	
3/17/2021				4.72		7.19
8/12/2021		6.46	7.47			
8/13/2021	7.77					
8/18/2021				4.9		
8/19/2021					6.18	7.04
2/1/2022	8.25					
2/7/2022		6.51	7.65			
2/8/2022					6.04	7.18
2/9/2022				4.97		
8/2/2022	7.9					
8/10/2022		6.22	7.53			7.09
8/11/2022				4.93	6.29	

Time Series

Constituent: Field pH (s.u.) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	6.4					
5/24/2016		4.83				
7/12/2016	6.09	4.58				
9/1/2016	6.35	4.51				
10/25/2016	6.23	4.53				
12/7/2016	6.23					
12/8/2016		4.56				
1/26/2017	6.24	4.61				
3/22/2017	6.25					
3/23/2017		4.63				
5/25/2017	6.27	4.69				
10/4/2017	6.18	4.58				
4/3/2018	6.22	4.54				
6/5/2018		4.57				
6/6/2018	6.22					
10/3/2018	6.23	4.41				
3/14/2019		4.39			6.68	
3/15/2019	6.32		6.81	5.95		
4/4/2019			6.7			
4/5/2019	6.26	4.5		5.96	6.66	
9/25/2019	6.28	4.54	6.54			
9/26/2019					6.64	
9/27/2019				5.81		
3/2/2020				5.97	7.05	
3/3/2020	6.35	4.55	6.72			
3/27/2020				5.71		
3/31/2020	6.28	4.43				
4/1/2020			6.9		6.8	4.35
6/17/2020			6.47			4.36
9/15/2020		4.47				
9/16/2020	6.35					
9/17/2020				5.66	6.71	
9/21/2020			6.92			4.48
2/11/2021	6.31	4.53	6.87			
2/12/2021					6.8	4.4
2/15/2021				5.48		
3/17/2021				5.57	6.86	
3/18/2021	6.43	4.54	6.95			4.27
8/18/2021	6.43					4.42
8/19/2021		4.43	6.85	6.05	6.72	
2/8/2022	6.42	4.59	7.09	5.37		4.42
2/10/2022					6.87	
8/10/2022	6.29	4.41				4.36
8/11/2022			6.96	5.3	6.57	

Time Series

Constituent: Field pH (s.u.) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/17/2020	7.35	5.46	7.78	
9/21/2020		5.4		
9/23/2020	7.05		7.62	
2/11/2021			7.42	
2/15/2021		4.82		
3/12/2021			7.5	
3/19/2021		4.89		
8/16/2021	7.05			
8/18/2021		4.89	7.52	6.19
2/8/2022		4.86	7.63	6.57
2/9/2022	7.21			
8/10/2022	7		7.47	
8/11/2022		4.86		6.37

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)	0.036 (J)		
7/11/2016	0.16 (J)	0.05 (J)		0.09 (J)		
7/12/2016			0.12 (J)			
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)	0.06 (J)		
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)	0.07 (J)		
12/6/2016	0.11 (J)	0.36	0.21 (J)	0.07 (J)		
1/24/2017	0.09 (J)	<0.1	0.06 (J)	<0.1		
3/21/2017	0.13 (J)	<0.1	0.005 (J)	<0.1		
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/23/2017				0.01 (J)		
10/3/2017	0.13 (J)	<0.1	0.13 (J)	<0.1		
4/2/2018	<0.1	<0.1		<0.1		
4/3/2018			<0.1			
6/4/2018	0.074 (J)	<0.1	<0.1	0.097 (J)		
10/1/2018	<0.1	<0.1	<0.1	<0.1		
3/11/2019				0.035 (J)		
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)		<0.1		
9/23/2019	0.078 (J)	<0.1	<0.1			
9/24/2019				<0.1		
3/2/2020	0.076 (J)	<0.1	<0.1	<0.1		
3/25/2020	0.098 (J)	<0.1	<0.1			
3/26/2020				<0.1		
9/15/2020	0.082 (J)	<0.1	<0.1	<0.1		
9/16/2020						0.22
9/17/2020				0.2		
11/10/2020						0.19
11/11/2020				0.1		
12/15/2020				0.11		0.21
1/19/2021						0.16
1/20/2021					0.082 (J)	
2/8/2021	0.078 (J)			<0.1	0.096 (J)	
2/9/2021		<0.1	0.074 (J)			0.19
3/10/2021	0.079 (J)			<0.1	0.11	
3/11/2021		0.1	<0.1			0.2
8/11/2021	0.058 (J)					0.15
8/12/2021		<0.1	<0.1	<0.1	0.079 (J)	
2/1/2022	0.064 (J)	<0.1	<0.1			0.19
2/7/2022				<0.1	0.085 (J)	
8/2/2022	0.09 (J)	0.053 (J)	0.067 (J)	0.076 (J)		0.22
8/9/2022					0.12	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.08 (J)				
5/20/2016			0.065 (J)			
5/23/2016				<0.1	<0.1	0.038 (J)
7/11/2016		0.09 (J)	0.13 (J)			
7/12/2016				0.2 (J)	0.09 (J)	0.26 (J)
8/30/2016		0.08 (J)	0.07 (J)			
9/1/2016				0.08 (J)	0.22 (J)	0.42
10/20/2016		0.1 (J)	0.06 (J)			
10/24/2016				0.04 (J)	0.07 (J)	
10/25/2016						0.25 (J)
12/7/2016				0.11 (J)	0.23 (J)	0.23 (J)
12/8/2016		0.08 (J)	0.06 (J)			
1/24/2017		0.09 (J)	0.02 (J)			
1/26/2017				0.13 (J)	<0.1	0.02 (J)
3/21/2017		0.04 (J)	0.08 (J)			
3/22/2017						0.3
3/23/2017				0.28 (J)	0.12 (J)	
5/23/2017		0.04 (J)	0.006 (J)			
5/24/2017				0.32	0.31	0.46
10/3/2017		0.06 (J)	<0.1			
10/4/2017				0.52	0.6	<0.1
4/3/2018		<0.1	<0.1		<0.1	<0.1
4/4/2018				<0.1		
6/5/2018		0.083 (J)	0.055 (J)			
6/6/2018				0.25 (J)	0.17 (J)	<0.1
10/2/2018		<0.1	0.076 (J)			
10/3/2018				0.21 (J)	<0.1	<0.1
3/12/2019		0.079 (J)	0.061 (J)			
3/14/2019				0.24 (J)	<0.1	
3/15/2019						<0.1
4/2/2019		0.12 (J)	<0.1			
4/4/2019					0.066 (J)	<0.1
4/5/2019				0.66		
9/24/2019		0.058 (J)	<0.1	0.053 (J)	0.12 (J)	
9/25/2019						<0.1
3/2/2020		0.053 (J)	<0.1			
3/3/2020				<0.1	0.064 (J)	<0.1
3/25/2020			<0.1			
3/26/2020		0.066 (J)			<0.1	
3/30/2020				0.092 (J)		0.059 (J)
9/15/2020		0.061 (J)	<0.1			
9/16/2020	0.52					
9/17/2020					<0.1	<0.1
9/18/2020				<0.1		
11/10/2020	0.59					
12/15/2020	0.67					
1/19/2021	0.74					
2/9/2021	0.44	0.053 (J)	<0.1			
2/10/2021						0.21
2/11/2021				0.059 (J)		
2/12/2021					0.053 (J)	
3/10/2021	0.65					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/11/2021		0.06 (J)	0.17			
3/16/2021					<0.1	
3/17/2021				0.076 (J)		<0.1
8/12/2021		<0.1	<0.1			
8/13/2021	0.87					
8/18/2021				<0.1		
8/19/2021					<0.1	<0.1
2/1/2022	0.96					
2/7/2022		<0.1	<0.1			
2/8/2022					<0.1	<0.1
2/9/2022				0.053 (J)		
8/2/2022	0.8					
8/10/2022		0.078 (J)	0.067 (J)			0.054 (J)
8/11/2022				0.085 (J)	0.097 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.1					
5/24/2016		<0.1				
7/12/2016	0.09 (J)	0.54				
9/1/2016	0.03 (J)	0.49				
10/25/2016	0.07 (J)	0.58				
12/7/2016	0.54					
12/8/2016		0.63				
1/26/2017	<0.1	0.71				
3/22/2017	0.07 (J)					
3/23/2017		0.57				
5/25/2017	0.42	0.54				
10/4/2017	0.93	0.95				
4/3/2018	<0.1	0.33				
6/5/2018		0.66				
6/6/2018	0.23 (J)					
10/3/2018	<0.1	0.32				
3/14/2019		0.88			<0.1	
3/15/2019	<0.1		<0.1	<0.1		
4/4/2019			0.1 (J)			
4/5/2019	0.16 (J)	0.37		0.13 (J)	0.14 (J)	
9/25/2019	0.081 (J)	0.73	<0.1			
9/26/2019					0.16 (J)	
9/27/2019				0.28 (J)		
1/22/2020						0.18 (J)
3/2/2020				<0.1	<0.1	
3/3/2020	<0.1	0.34	<0.1			
3/27/2020				<0.1		
3/31/2020	<0.1	0.45				
4/1/2020			<0.1		<0.1	0.15 (J)
6/17/2020			<0.1			0.25
9/15/2020		0.31				
9/16/2020	0.058 (J)					
9/17/2020				<0.1	<0.1	
9/21/2020			<0.1			0.14
2/11/2021	0.058 (J)	0.71	<0.1			
2/12/2021					<0.1	0.25
2/15/2021				<0.1		
3/17/2021				<0.1	<0.1	
3/18/2021	0.057 (J)	0.64	<0.1			0.4
8/18/2021	0.062 (J)					0.16
8/19/2021		0.31	<0.1	<0.1	<0.1	
2/8/2022	0.055 (J)	0.19	<0.1	<0.1		0.14
2/10/2022					<0.1	
8/10/2022	0.086 (J)	0.3				0.21
8/11/2022			0.056 (J)	0.063 (J)	0.06 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.082 (J)	0.053 (J)	0.1	
9/21/2020		<0.1		
9/23/2020	<0.1		0.065 (J)	
2/11/2021			0.077 (J)	
2/15/2021		0.093 (J)		
3/12/2021			0.061 (J)	
3/19/2021		0.082 (J)		
8/16/2021	0.066 (J)			
8/18/2021		0.052 (J)	0.05 (J)	0.072 (J)
2/8/2022		0.065 (J)	0.055 (J)	0.078 (J)
2/9/2022	0.051 (J)			
8/10/2022	0.081 (J)		0.084 (J)	
8/11/2022		0.088 (J)		0.11

Time Series

Constituent: Lead (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.001	<0.001	<0.001	<0.001		
7/11/2016	<0.001	<0.001		<0.001		
7/12/2016			0.0001 (J)			
8/30/2016	<0.001	<0.001	<0.001	<0.001		
10/19/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016	<0.001	<0.001	<0.001	0.0002 (J)		
1/24/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)	<0.001		
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/23/2017				<0.001		
4/2/2018	<0.001	<0.001		<0.001		
4/3/2018			<0.001			
3/11/2019				<0.001		
3/12/2019	<0.001	<0.001	<0.001			
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001		<0.001		
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
9/24/2019				<0.001		
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001	0.00026 (J)		
3/25/2020	<0.001	0.00011 (J)	<0.001			
3/26/2020				5.9E-05 (J)		
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)	4.9E-05 (J)		
9/16/2020						5E-05 (J)
9/17/2020				6.2E-05 (J)		
11/10/2020						6.9E-05 (J)
11/11/2020				8.4E-05 (J)		
12/15/2020				0.00045 (J)		8.2E-05 (J)
1/19/2021						4.4E-05 (J)
1/20/2021				<0.001		
2/8/2021	5.8E-05 (J)			0.00024 (J)	8.1E-05 (J)	
2/9/2021		9.4E-05 (J)	<0.001			0.00029 (J)
3/10/2021	<0.001			0.00016 (J)	<0.001	
3/11/2021		7.6E-05 (J)	<0.001			9.4E-05 (J)
8/11/2021	<0.001					<0.001
8/12/2021		<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001			<0.001
2/7/2022				<0.001	<0.001	
8/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001
8/9/2022				<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.001				
5/20/2016			<0.001			
5/23/2016				0.00182 (J)	<0.001	<0.001
7/11/2016		<0.001	<0.001			
7/12/2016				0.0015 (J)	<0.001	<0.001
8/30/2016		<0.001	<0.001			
9/1/2016				0.0016 (J)	<0.001	<0.001
10/20/2016		0.0002 (J)	<0.001			
10/24/2016				0.0016 (J)	<0.001	
10/25/2016						<0.001
12/7/2016				0.0018 (J)	<0.001	<0.001
12/8/2016		<0.001	<0.001			
1/24/2017		<0.001	<0.001			
1/26/2017				0.002 (J)	<0.001	0.0001 (J)
3/21/2017		<0.001	<0.001			
3/22/2017						0.0002 (J)
3/23/2017				0.0019 (J)	0.001 (J)	
5/23/2017		9E-05 (J)	0.0003 (J)			
5/24/2017				0.0016 (J)	0.0001 (J)	0.0001 (J)
4/3/2018		<0.001	<0.001		<0.001	<0.001
4/4/2018				<0.001		
3/12/2019		<0.001	<0.001			
3/14/2019				0.0014 (J)	<0.001	
3/15/2019						<0.001
4/2/2019		<0.001	<0.001			
4/4/2019					7.2E-05 (J)	0.00016 (J)
4/5/2019				0.0012 (J)		
9/24/2019		<0.001	7.1E-05 (J)	0.0013 (J)	0.0002 (J)	
9/25/2019						<0.001
3/2/2020		<0.001	<0.001			
3/3/2020				0.0017 (J)	5.3E-05 (J)	0.00016 (J)
3/25/2020			<0.001			
3/26/2020		<0.001			<0.001	
3/30/2020				0.0015 (J)		7.3E-05 (J)
9/15/2020		<0.001	<0.001			
9/16/2020	0.00021 (J)					
9/17/2020					<0.001	7.8E-05 (J)
9/18/2020				0.0012 (J)		
11/10/2020	0.0002 (J)					
12/15/2020	0.00011 (J)					
1/19/2021	0.00019 (J)					
2/9/2021	0.0001 (J)	<0.001	<0.001			
2/10/2021						9.4E-05 (J)
2/11/2021				0.0015 (J)		
2/12/2021					<0.001	
3/10/2021	<0.001					
3/11/2021		<0.001	<0.001			
3/16/2021					<0.001	
3/17/2021				0.0019		5.8E-05 (J)
8/12/2021		<0.001	<0.001			
8/13/2021	<0.001					
8/18/2021				0.0015		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.001	<0.001
2/1/2022	<0.001					
2/7/2022		<0.001	<0.001			
2/8/2022					<0.001	<0.001
2/9/2022				0.0014		
8/2/2022	<0.001					
8/10/2022		<0.001	<0.001			<0.001
8/11/2022				<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.001					
5/24/2016		0.00154 (J)				
7/12/2016	<0.001	0.0012 (J)				
9/1/2016	<0.001	0.0014 (J)				
10/25/2016	<0.001	0.0015 (J)				
12/7/2016	<0.001					
12/8/2016		0.0017 (J)				
1/26/2017	<0.001	0.0013 (J)				
3/22/2017	0.0001 (J)					
3/23/2017		0.001 (J)				
5/25/2017	<0.001	0.0012 (J)				
4/3/2018	<0.001	<0.001				
3/14/2019		0.0015 (J)			<0.001	
3/15/2019	<0.001		<0.001	<0.001		
4/4/2019			<0.001			
4/5/2019	7.6E-05 (J)	0.0015 (J)		<0.001	<0.001	
9/25/2019	8.9E-05 (J)	0.0015 (J)	<0.001			
9/26/2019					<0.001	
9/27/2019				0.0001 (J)		
3/2/2020				9.4E-05 (J)	5.1E-05 (J)	
3/3/2020	0.00013 (J)	0.0013 (J)	4.7E-05 (J)			
3/27/2020				<0.001		
3/31/2020	7.7E-05 (J)	0.0014 (J)				
4/1/2020			4.8E-05 (J)		<0.001	0.0017 (J)
6/17/2020			<0.001			0.0017 (J)
9/15/2020		0.0014 (J)				
9/16/2020	6.5E-05 (J)					
9/17/2020				<0.001	0.00016 (J)	
9/21/2020			<0.001			0.0017 (J)
2/11/2021	0.00018 (J)	0.00098 (J)	0.00066 (J)			
2/12/2021					<0.001	0.0018 (J)
2/15/2021				3.6E-05 (J)		
3/17/2021				<0.001	<0.001	
3/18/2021	8.8E-05 (J)	0.00096 (J)	7.3E-05 (J)			0.0017
8/18/2021	<0.001					0.0016
8/19/2021		0.0013	<0.001	<0.001	<0.001	
2/8/2022	<0.001	0.0009 (J)	<0.001	<0.001		0.0014
2/10/2022					<0.001	
8/10/2022	<0.001	0.0011				<0.001
8/11/2022			<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00087 (J)	0.00016 (J)	0.0017 (J)	
9/21/2020		0.00099 (J)		
9/23/2020	<0.001		8.2E-05 (J)	
2/11/2021			0.00039 (J)	
2/15/2021		0.00055 (J)		
3/12/2021			<0.001	
3/19/2021		0.00066 (J)		
8/16/2021	<0.001			
8/18/2021		<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001
2/9/2022	<0.001			
8/10/2022	<0.001		<0.001	
8/11/2022		<0.001		<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.03	<0.03	<0.03	<0.03		
7/11/2016	<0.03	0.0014 (J)		0.0015 (J)		
7/12/2016			0.0024 (J)			
8/30/2016	<0.03	<0.03	0.0025 (J)	0.0027 (J)		
10/19/2016	<0.03	<0.03	0.003 (J)	0.0042 (J)		
12/6/2016	<0.03	<0.03	0.0033 (J)	0.0046 (J)		
1/24/2017	<0.03	<0.03	0.003 (J)	<0.03		
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)	<0.03		
5/22/2017	<0.03	<0.03	0.003 (J)			
5/23/2017				<0.03		
4/2/2018	<0.03	0.0015 (J)		<0.03		
4/3/2018			0.003 (J)			
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)	0.00097 (J)		
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)	<0.03		
3/11/2019				<0.03		
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)		0.00098 (J)		
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/24/2019				<0.03		
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)	0.0012 (J)		
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
3/26/2020				0.00095 (J)		
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)	<0.03		
9/16/2020						0.0018 (J)
9/17/2020				0.0039 (J)		
11/10/2020						0.0013 (J)
11/11/2020				0.0086 (J)		
12/15/2020				0.008 (J)		0.0019 (J)
1/19/2021						0.0025 (J)
1/20/2021				0.01 (J)		
2/8/2021	0.00086 (J)			0.0013 (J)	0.0098 (J)	
2/9/2021		0.0012 (J)	0.0032 (J)			0.0026 (J)
3/10/2021	0.0009 (J)			0.0011 (J)	0.0094 (J)	
3/11/2021		0.0011 (J)	0.0035 (J)			0.0022 (J)
8/11/2021	0.00078 (J)					0.0024 (J)
8/12/2021		0.0012 (J)	0.0028 (J)	0.0013 (J)	0.0096 (J)	
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)			0.0024 (J)
2/7/2022				0.0013 (J)	0.0097 (J)	
8/2/2022	<0.03	0.0013 (J)	0.003 (J)	0.0011 (J)		0.0019 (J)
8/9/2022				0.011 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.03				
5/20/2016			<0.03			
5/23/2016				<0.03	<0.03	<0.03
7/11/2016		0.0034 (J)	0.01 (J)			
7/12/2016				<0.03	<0.03	0.0037 (J)
8/30/2016		0.003 (J)	0.0095 (J)			
9/1/2016				<0.03	0.0021 (J)	0.0033 (J)
10/20/2016		0.0031 (J)	0.0105 (J)			
10/24/2016				<0.03	<0.03	
10/25/2016						0.0029 (J)
12/7/2016				<0.03	<0.03	0.0029 (J)
12/8/2016		0.0027 (J)	0.01 (J)			
1/24/2017		0.0028 (J)	0.0108 (J)			
1/26/2017				<0.03	<0.03	0.0028 (J)
3/21/2017		0.0037 (J)	0.0115 (J)			
3/22/2017						0.0025 (J)
3/23/2017				<0.03	0.0016 (J)	
5/23/2017		0.0033 (J)	0.011 (J)			
5/24/2017				<0.03	0.0029 (J)	0.0029 (J)
4/3/2018		0.0033 (J)	0.012 (J)		0.0026 (J)	0.0028 (J)
4/4/2018				<0.03		
6/5/2018		0.0034 (J)	0.011 (J)			
6/6/2018				<0.03	0.0013 (J)	0.0031 (J)
10/2/2018		0.0035 (J)	0.01 (J)			
10/3/2018				<0.03	0.0017 (J)	0.0026 (J)
3/12/2019		0.0032 (J)	0.011 (J)			
3/14/2019				<0.03	<0.03	
3/15/2019						0.0041 (J)
4/2/2019		0.0028 (J)	0.0095 (J)			
4/4/2019					0.0009 (J)	0.0032 (J)
4/5/2019				<0.03		
9/24/2019		0.0035 (J)	0.011 (J)	<0.03	0.0012 (J)	
9/25/2019						0.0038 (J)
3/2/2020		0.0036 (J)	0.012			
3/3/2020				<0.03	0.0084 (J)	0.0047 (J)
3/25/2020			0.011 (J)			
3/26/2020		0.0029 (J)			0.0061 (J)	
3/30/2020				<0.03		0.0041 (J)
9/15/2020		0.003 (J)	0.0095 (J)			
9/16/2020	0.014 (J)					
9/17/2020					0.0094 (J)	0.0043 (J)
9/18/2020				<0.03		
11/10/2020	0.025 (J)					
12/15/2020	0.028 (J)					
1/19/2021	0.034					
2/9/2021	0.026 (J)	0.003 (J)	0.01 (J)			
2/10/2021						0.0038 (J)
2/11/2021				<0.03		
2/12/2021					0.036	
3/10/2021	0.03					
3/11/2021		0.0037 (J)	0.012 (J)			
3/16/2021					0.032	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.03		0.0048 (J)
8/12/2021		0.0032 (J)	0.0094 (J)			
8/13/2021	0.032					
8/18/2021				<0.03		
8/19/2021					0.0058 (J)	0.0042 (J)
2/1/2022	0.048					
2/7/2022		0.0029 (J)	0.0097 (J)			
2/8/2022					0.014 (J)	0.0034 (J)
2/9/2022				<0.03		
8/2/2022	0.041					
8/11/2022				<0.03	0.0025 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.03					
5/24/2016		0.0142 (J)				
7/12/2016	<0.03	0.0141 (J)				
9/1/2016	<0.03	0.0158 (J)				
10/25/2016	<0.03	0.016 (J)				
12/7/2016	<0.03					
12/8/2016		0.0144 (J)				
1/26/2017	<0.03	0.0136 (J)				
3/22/2017	<0.03					
3/23/2017		0.0151 (J)				
5/25/2017	0.0011 (J)	0.0154 (J)				
4/3/2018	<0.03	0.013 (J)				
6/5/2018		0.013 (J)				
6/6/2018	<0.03					
10/3/2018	<0.03	0.015 (J)				
3/14/2019		0.011 (J)			0.0028 (J)	
3/15/2019	0.0011 (J)		0.025 (J)	0.002 (J)		
4/4/2019			0.019 (J)			
4/5/2019	0.00074 (J)	0.0084 (J)		0.0013 (J)	0.0021 (J)	
9/25/2019	0.0011 (J)	0.015 (J)	0.024 (J)			
9/26/2019					0.0023 (J)	
9/27/2019				0.0013 (J)		
3/2/2020				0.0015 (J)	0.0025 (J)	
3/3/2020	0.0012 (J)	0.012 (J)	0.026 (J)			
3/27/2020				0.0013 (J)		
3/31/2020	0.0009 (J)	0.012 (J)				
4/1/2020			0.026 (J)		0.0024 (J)	0.0011 (J)
6/17/2020			0.023 (J)			0.00097 (J)
9/15/2020		0.014 (J)				
9/16/2020	0.0012 (J)					
9/17/2020				0.0011 (J)	0.0021 (J)	
9/21/2020			0.022 (J)			0.00086 (J)
2/11/2021	0.0013 (J)	0.011 (J)	0.021 (J)			
2/12/2021					0.0023 (J)	0.0011 (J)
2/15/2021				0.0011 (J)		
3/17/2021				0.0012 (J)	0.0024 (J)	
3/18/2021	0.0014 (J)	0.013 (J)	0.026 (J)			0.0012 (J)
8/18/2021	0.0012 (J)					0.00097 (J)
8/19/2021		0.013 (J)	0.022 (J)	0.0012 (J)	0.0022 (J)	
2/8/2022	0.0014 (J)	0.01 (J)	0.022 (J)	0.0011 (J)		0.001 (J)
2/10/2022					0.0029 (J)	
8/11/2022			0.022 (J)	0.0011 (J)	0.002 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0021 (J)	0.0046 (J)	0.038 (J)	
9/21/2020		0.0036 (J)		
9/23/2020	0.0011 (J)		0.031	
2/11/2021			0.034	
2/15/2021		0.0043 (J)		
3/12/2021			0.035	
3/19/2021		0.0045 (J)		
8/16/2021	0.001 (J)			
8/18/2021		0.0036 (J)	0.03	0.0022 (J)
2/8/2022		0.0039 (J)	0.029 (J)	0.001 (J)
2/9/2022	0.0022 (J)			
8/11/2022		<0.03		0.0014 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0002	<0.0002	<0.0002	<0.0002		
7/11/2016	<0.0002	<0.0002		<0.0002		
7/12/2016			<0.0002			
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002	5E-05 (J)		
10/19/2016	<0.0002	<0.0002	<0.0002	<0.0002		
12/6/2016	<0.0002	<0.0002	<0.0002	5E-05 (J)		
1/24/2017	<0.0002	<0.0002	<0.0002	0.0001 (J)		
3/21/2017	<0.0002	<0.0002	<0.0002	0.00016 (J)		
5/22/2017	<0.0002	<0.0002	<0.0002			
5/23/2017				5E-05 (J)		
4/2/2018	<0.0002	<0.0002		<0.0002		
4/3/2018			<0.0002			
3/11/2019				<0.0002		
3/12/2019	<0.0002	<0.0002	<0.0002			
3/2/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/16/2020						<0.0002
9/17/2020					<0.0002	
11/10/2020						<0.0002
11/11/2020					<0.0002	
12/15/2020					<0.0002	<0.0002
1/19/2021						<0.0002
1/20/2021					<0.0002	
2/8/2021	<0.0002			<0.0002	<0.0002	
2/9/2021		<0.0002	<0.0002			<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002			<0.0002
2/7/2022				<0.0002	<0.0002	
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/9/2022					<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0002				
5/20/2016			<0.0002			
5/23/2016				<0.0002	<0.0002	<0.0002
7/11/2016		<0.0002	<0.0002			
7/12/2016				<0.0002	<0.0002	<0.0002
8/30/2016		<0.0002	4.4E-05 (J)			
9/1/2016				<0.0002	<0.0002	<0.0002
10/20/2016		<0.0002	<0.0002			
10/24/2016				<0.0002	<0.0002	
10/25/2016						<0.0002
12/7/2016				<0.0002	<0.0002	<0.0002
12/8/2016		<0.0002	<0.0002			
1/24/2017		<0.0002	<0.0002			
1/26/2017				<0.0002	<0.0002	<0.0002
3/21/2017		<0.0002	<0.0002			
3/22/2017						<0.0002
3/23/2017				<0.0002	<0.0002	
5/23/2017		<0.0002	<0.0002			
5/24/2017				<0.0002	<0.0002	<0.0002
4/3/2018		<0.0002	<0.0002		<0.0002	<0.0002
4/4/2018				<0.0002		
3/12/2019		<0.0002	<0.0002			
3/14/2019				<0.0002	<0.0002	
3/15/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020				<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002					
11/10/2020	<0.0002					
12/15/2020	<0.0002					
1/19/2021	<0.0002					
2/9/2021	<0.0002	<0.0002	<0.0002			
2/10/2021						<0.0002
2/11/2021				<0.0002		
2/12/2021					<0.0002	
2/1/2022	<0.0002					
2/7/2022		<0.0002	<0.0002			
2/8/2022					<0.0002	<0.0002
2/9/2022				<0.0002		
8/2/2022	<0.0002					
8/11/2022				<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0002					
5/24/2016		<0.0002				
7/12/2016	<0.0002	<0.0002				
9/1/2016	<0.0002	6E-05 (J)				
10/25/2016	<0.0002	4E-05 (J)				
12/7/2016	<0.0002					
12/8/2016		<0.0002				
1/26/2017	<0.0002	8E-05 (J)				
3/22/2017	<0.0002					
3/23/2017		9E-05 (J)				
5/25/2017	<0.0002	8E-05 (J)				
4/3/2018	<0.0002	<0.0002				
3/14/2019		<0.0002			<0.0002	
3/15/2019	<0.0002		<0.0002	<0.0002		
3/2/2020				<0.0002	<0.0002	
3/3/2020	<0.0002	<0.0002	<0.0002			
2/11/2021	<0.0002	<0.0002	<0.0002			
2/12/2021					<0.0002	<0.0002
2/15/2021				<0.0002		
2/8/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022					<0.0002	
8/11/2022			<0.0002	0.00016 (J)	0.00017 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
2/11/2021			<0.0002	
2/15/2021		<0.0002		
2/8/2022		0.00014 (J)	<0.0002	<0.0002
2/9/2022	<0.0002			
8/11/2022		0.00014 (J)		0.00013 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.01	<0.01	<0.01	<0.01		
7/11/2016	<0.01	<0.01		<0.01		
7/12/2016			<0.01			
8/30/2016	<0.01	<0.01	<0.01	<0.01		
10/19/2016	<0.01	<0.01	<0.01	<0.01		
12/6/2016	<0.01	<0.01	<0.01	<0.01		
1/24/2017	<0.01	<0.01	<0.01	<0.01		
3/21/2017	<0.01	<0.01	<0.01	<0.01		
5/22/2017	<0.01	<0.01	<0.01			
5/23/2017				<0.01		
4/2/2018	<0.01	<0.01		<0.01		
4/3/2018			<0.01			
3/11/2019				<0.01		
3/12/2019	<0.01	<0.01	<0.01			
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01		<0.01		
9/23/2019	<0.01	<0.01	<0.01			
9/24/2019				<0.01		
3/2/2020	<0.01	<0.01	<0.01	<0.01		
3/25/2020	<0.01	<0.01	<0.01			
3/26/2020				<0.01		
9/15/2020	<0.01	<0.01	<0.01	<0.01		
9/16/2020						0.0044 (J)
9/17/2020					0.0037 (J)	
11/10/2020						0.0072 (J)
11/11/2020					<0.01	
12/15/2020					0.00082 (J)	0.0044 (J)
1/19/2021						0.0038 (J)
1/20/2021					<0.01	
2/8/2021	<0.01			<0.01	<0.01	
2/9/2021		<0.01	<0.01			0.0045 (J)
3/10/2021	<0.01			<0.01	<0.01	
3/11/2021		<0.01	<0.01			0.0064 (J)
8/11/2021	<0.01					0.0034 (J)
8/12/2021		<0.01	<0.01	<0.01	<0.01	
2/1/2022	<0.01	<0.01	<0.01			0.0036 (J)
2/7/2022				<0.01	0.00099 (J)	
8/2/2022	<0.01	<0.01	<0.01	<0.01		0.0042 (J)
8/9/2022					<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.01				
5/20/2016			<0.01			
5/23/2016				<0.01	<0.01	<0.01
7/11/2016		<0.01	0.0008 (J)			
7/12/2016				<0.01	0.0007 (J)	<0.01
8/30/2016		<0.01	<0.01			
9/1/2016				<0.01	<0.01	<0.01
10/20/2016		<0.01	<0.01			
10/24/2016				<0.01	<0.01	
10/25/2016						<0.01
12/7/2016				<0.01	<0.01	<0.01
12/8/2016		<0.01	<0.01			
1/24/2017		<0.01	<0.01			
1/26/2017				<0.01	<0.01	<0.01
3/21/2017		<0.01	0.0002 (J)			
3/22/2017						<0.01
3/23/2017				<0.01	<0.01	
5/23/2017		<0.01	<0.01			
5/24/2017				<0.01	<0.01	<0.01
4/3/2018		<0.01	<0.01		<0.01	<0.01
4/4/2018				<0.01		
3/12/2019		<0.01	<0.01			
3/14/2019				<0.01	<0.01	
3/15/2019						<0.01
4/2/2019		<0.01	<0.01			
4/4/2019					<0.01	<0.01
4/5/2019				<0.01		
9/24/2019		<0.01	<0.01	<0.01	<0.01	
9/25/2019						<0.01
3/2/2020		<0.01	<0.01			
3/3/2020				<0.01	<0.01	<0.01
3/25/2020			<0.01			
3/26/2020		<0.01			<0.01	
3/30/2020				<0.01		<0.01
9/15/2020		<0.01	<0.01			
9/16/2020	0.0019 (J)					
9/17/2020					<0.01	<0.01
9/18/2020				<0.01		
11/10/2020	0.0018 (J)					
12/15/2020	0.0019 (J)					
1/19/2021	0.0035 (J)					
2/9/2021	0.0038 (J)	<0.01	<0.01			
2/10/2021						<0.01
2/11/2021				<0.01		
2/12/2021					<0.01	
3/10/2021	0.0019 (J)					
3/11/2021		<0.01	<0.01			
3/16/2021					<0.01	
3/17/2021				<0.01		<0.01
8/12/2021		<0.01	<0.01			
8/13/2021	0.0051 (J)					
8/18/2021				<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.01	<0.01
2/1/2022	0.0055 (J)					
2/7/2022		<0.01	<0.01			
2/8/2022					<0.01	<0.01
2/9/2022				<0.01		
8/2/2022	0.002 (J)					
8/11/2022				<0.01	<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.01					
5/24/2016		<0.01				
7/12/2016	<0.01	<0.01				
9/1/2016	<0.01	<0.01				
10/25/2016	<0.01	<0.01				
12/7/2016	<0.01					
12/8/2016		<0.01				
1/26/2017	<0.01	<0.01				
3/22/2017	<0.01					
3/23/2017		<0.01				
5/25/2017	<0.01	<0.01				
4/3/2018	<0.01	<0.01				
3/14/2019		<0.01			<0.01	
3/15/2019	<0.01		0.045	<0.01		
4/4/2019			0.033			
4/5/2019	<0.01	<0.01		0.00013 (J)	0.0014 (J)	
9/25/2019	<0.01	<0.01	0.038			
9/26/2019					0.0025 (J)	
9/27/2019				<0.01		
3/2/2020				<0.01	0.003 (J)	
3/3/2020	<0.01	<0.01	0.025			
3/27/2020				<0.01		
3/31/2020	<0.01	<0.01				
4/1/2020			0.024		0.0032 (J)	<0.01
6/17/2020			0.019			<0.01
9/15/2020		<0.01				
9/16/2020	<0.01					
9/17/2020				<0.01	0.0026 (J)	
9/21/2020			0.017			<0.01
2/11/2021	<0.01	<0.01	0.016			
2/12/2021					0.0039 (J)	<0.01
2/15/2021				<0.01		
3/17/2021				<0.01	0.0034 (J)	
3/18/2021	<0.01	<0.01	0.016			<0.01
8/18/2021	<0.01					<0.01
8/19/2021		<0.01	0.018	<0.01	0.0034 (J)	
2/8/2022	<0.01	<0.01	0.016	<0.01		<0.01
2/10/2022					0.0034 (J)	
8/11/2022			0.023	<0.01	0.0039 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	<0.01	<0.01	0.023	
9/21/2020		<0.01		
9/23/2020	<0.01		0.015	
2/11/2021			0.019	
2/15/2021		<0.01		
3/12/2021			0.014	
3/19/2021		<0.01		
8/16/2021	<0.01			
8/18/2021		<0.01	0.0083 (J)	<0.01
2/8/2022		<0.01	0.007 (J)	<0.01
2/9/2022	<0.01			
8/11/2022		<0.01		<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	<0.005	<0.005	<0.005		
7/11/2016	<0.005	<0.005		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	<0.005	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	<0.005	<0.005	<0.005	<0.005		
5/22/2017	<0.005	<0.005	<0.005			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	<0.005	<0.005	<0.005		
10/1/2018	<0.005	<0.005	<0.005	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	<0.005	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005		<0.005		
9/23/2019	<0.005	<0.005	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	<0.005	<0.005	<0.005		
3/25/2020	<0.005	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020				<0.005		
12/15/2020				<0.005		<0.005
1/19/2021						<0.005
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	<0.005	
2/9/2021		<0.005	<0.005			<0.005
3/10/2021	0.0047 (J)			<0.005	<0.005	
3/11/2021		<0.005	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	<0.005	<0.005	<0.005			<0.005
2/7/2022				<0.005	<0.005	
8/2/2022	<0.005	0.0014 (J)	<0.005	<0.005		<0.005
8/9/2022					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				0.017	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				0.0146	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				0.0137	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				0.0135	0.0012 (J)	
10/25/2016						<0.005
12/7/2016				0.01 (J)	0.0041 (J)	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		0.0011 (J)	<0.005			
1/26/2017				0.0214	<0.005	<0.005
3/21/2017		<0.005	<0.005			
3/22/2017						<0.005
3/23/2017				0.0167	0.0016 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				0.0083 (J)	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				0.012		
6/5/2018		<0.005	<0.005			
6/6/2018				0.014	<0.005	<0.005
10/2/2018		<0.005	<0.005			
10/3/2018				0.0056 (J)	<0.005	<0.005
3/12/2019		<0.005	<0.005			
3/14/2019				0.0048 (J)	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					0.00021 (J)	8.9E-05 (J)
4/5/2019				0.00091 (J)		
9/24/2019		<0.005	<0.005	0.0064 (J)	<0.005	
9/25/2019						<0.005
3/2/2020		<0.005	<0.005			
3/3/2020				0.0045 (J)	<0.005	<0.005
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.0049 (J)		<0.005
9/15/2020		<0.005	<0.005			
9/16/2020	<0.005					
9/17/2020					<0.005	<0.005
9/18/2020				0.0045 (J)		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	<0.005	<0.005	<0.005			
2/10/2021						<0.005
2/11/2021				0.0072 (J)		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		<0.005	<0.005			
3/16/2021					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.01 (J)		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.0077		
8/19/2021					<0.005	<0.005
2/1/2022	<0.005					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				0.0047 (J)		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				0.0037 (J)	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		<0.005				
7/12/2016	<0.005	0.036				
9/1/2016	0.0014 (J)	0.0347				
10/25/2016	<0.005	0.0282				
12/7/2016	0.0023 (J)					
12/8/2016		0.0373				
1/26/2017	<0.005	0.0385				
3/22/2017	<0.005					
3/23/2017		0.0414				
5/25/2017	<0.005	0.019				
4/3/2018	<0.005	0.029				
6/5/2018		0.038				
6/6/2018	<0.005					
10/3/2018	<0.005	0.017				
3/14/2019		0.016			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			<0.005			
4/5/2019	9.3E-05 (J)	0.0018 (J)		<0.005	<0.005	
9/25/2019	<0.005	0.02	<0.005			
9/26/2019					<0.005	
9/27/2019				<0.005		
3/2/2020				<0.005	<0.005	
3/3/2020	<0.005	0.014	<0.005			
3/27/2020				<0.005		
3/31/2020	<0.005	0.019				
4/1/2020			<0.005		<0.005	0.011
6/17/2020			<0.005			0.014
9/15/2020		0.059				
9/16/2020	<0.005					
9/17/2020				0.002 (J)	<0.005	
9/21/2020			<0.005			0.041
2/11/2021	<0.005	0.023	<0.005			
2/12/2021					<0.005	0.011
2/15/2021				<0.005		
3/17/2021				<0.005	<0.005	
3/18/2021	<0.005	0.019 (J)	<0.005			0.028
8/18/2021	<0.005					0.014
8/19/2021		0.01	<0.005	<0.005	<0.005	
2/8/2022	<0.005	0.0082	<0.005	<0.005		0.0078
2/10/2022					<0.005	
8/10/2022	<0.005	0.0096				0.007 (J)
8/11/2022			<0.005	<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0025 (J)	0.014	<0.005	
9/21/2020		0.037		
9/23/2020	<0.005		<0.005	
2/11/2021			<0.005	
2/15/2021		0.01		
3/12/2021			<0.005	
3/19/2021		0.016 (J)		
8/16/2021	<0.005			
8/18/2021		0.014	<0.005	0.004 (J)
2/8/2022		0.0083	<0.005	<0.005
2/9/2022	<0.005			
8/10/2022	<0.005		<0.005	
8/11/2022		0.0089 (J)		0.0023 (J)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	66.9	48.6	42.3	1.22		
7/11/2016	41	45		3.7		
7/12/2016			44			
8/30/2016	36	42	40	6.8		
10/19/2016	46	44	43	11		
12/6/2016	59	44	43	13		
1/24/2017	46	46	48	5.7		
3/21/2017	63	46	45	1.7		
5/22/2017	77	48	46			
5/23/2017				1.5		
10/3/2017	42	47	48	1.3		
6/4/2018	71.8	47.8	46.6	4.9		
10/1/2018	49.1	48.1	48.6	0.59 (J)		
4/1/2019			50.4			
4/2/2019	84.3	48.7		4.9		
9/23/2019	70.2	47.2	43.9			
9/24/2019				<1		
3/25/2020	85.9	46.3	50.5			
3/26/2020				<1		
9/15/2020	47.3	51.5	44.7	<1		
9/16/2020						43
9/17/2020				10.9		
11/10/2020						39
11/11/2020				9.4		
12/15/2020				10.9		38.8
1/19/2021						37.3
1/20/2021				9.8		
3/10/2021	49.6			1.2	10.8	
3/11/2021		52.9	50.4			38.6
8/11/2021	48.9					30.5
8/12/2021		47.4	38.6	1.1	7.8	
2/1/2022	43.7	67.1	46			37.5
2/7/2022				2.9	10.4	
8/2/2022	58.1	86.9	43.5	4.9		37
8/9/2022					11.2	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		25				
5/20/2016			34.4			
5/23/2016				1070	424	203
7/11/2016		27	34			
7/12/2016				1300	440	220
8/30/2016		23	36			
9/1/2016				1300	440	220
10/20/2016		19	36			
10/24/2016				280	420	
10/25/2016						230
12/7/2016				1300	450	220
12/8/2016		20	36			
1/24/2017		20	37			
1/26/2017				1400	490	250
3/21/2017		23	37			
3/22/2017						240
3/23/2017				1500	530	
5/23/2017		21	38			
5/24/2017				1400	500	230
10/3/2017		21	38			
10/4/2017				1400	560	220
6/5/2018		22.9	38			
6/6/2018				1520	469	233
10/2/2018		20.3	38.5			
10/3/2018				1550	600	215
4/2/2019		23.8	35.5			
4/4/2019					528	251
4/5/2019				1520		
9/24/2019		20.7	35.4	1110	382	
9/25/2019						223
3/25/2020			35.1			
3/26/2020		21.6			438	
3/30/2020				1150		223
9/15/2020		21.2	35.3			
9/16/2020	6.9					
9/17/2020					416	254
9/18/2020				1260		
11/10/2020	6.3					
12/15/2020	6.7					
1/19/2021	7.4					
3/10/2021	<1					
3/11/2021		22.7	35.5			
3/16/2021					379	
3/17/2021				1300		250
8/12/2021		17.4	28.6			
8/13/2021	56.1					
8/18/2021				768		
8/19/2021					223	228
2/1/2022	56.3					
2/7/2022		20.6	33			
2/8/2022					360	238
2/9/2022				1190		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	13.2					
8/10/2022		19.7	34			206
8/11/2022				1200	365	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	395					
5/24/2016		834				
7/12/2016	460	930				
9/1/2016	430	890				
10/25/2016	440	950				
12/7/2016	410					
12/8/2016		910				
1/26/2017	440	970				
3/22/2017	460					
3/23/2017		980				
5/25/2017	430	920				
10/4/2017	490	870				
6/5/2018		962				
6/6/2018	520					
10/3/2018	651	1170				
4/4/2019			915			
4/5/2019	642	1030		392	585	
9/25/2019	434	920	767			
9/26/2019					556	
9/27/2019				520		
1/22/2020						1250
3/27/2020				419		
3/31/2020	484	934				
4/1/2020			889		478	1210
6/17/2020			901			1210
9/15/2020		1080				
9/16/2020	467					
9/17/2020				468	490	
9/21/2020			1010			1290
3/17/2021				461	486	
3/18/2021	447	1050	829			1360
8/18/2021	280					740
8/19/2021		934	724	412 (M1)	432	
2/8/2022	364	960	779	449		1220
2/10/2022					430	
8/10/2022	423	946				1010
8/11/2022			910	472	389	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	1100	1160	286	
9/21/2020		1220		
9/23/2020	1080		256	
3/12/2021			237	
3/19/2021		1220		
8/16/2021	987			
8/18/2021		789	207	757
2/8/2022		1190	248	1150
2/9/2022	1050			
8/10/2022	1040		122	
8/11/2022		1020		979

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.001	<0.001	<0.001	<0.001		
7/11/2016	<0.001	<0.001		<0.001		
7/12/2016			<0.001			
8/30/2016	<0.001	<0.001	<0.001	<0.001		
10/19/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016	<0.001	<0.001	<0.001	<0.001		
1/24/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017	<0.001	3E-05 (J)	<0.001	<0.001		
5/22/2017	<0.001	<0.001	<0.001			
5/23/2017				<0.001		
4/2/2018	<0.001	<0.001		<0.001		
4/3/2018			<0.001			
6/4/2018	<0.001	<0.001	<0.001	<0.001		
10/1/2018	<0.001	<0.001	<0.001	<0.001		
3/11/2019				<0.001		
3/12/2019	<0.001	<0.001	<0.001			
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001		<0.001		
9/23/2019	<0.001	<0.001	<0.001			
9/24/2019				<0.001		
3/2/2020	<0.001	<0.001	<0.001	<0.001		
3/25/2020	<0.001	<0.001	<0.001			
3/26/2020				<0.001		
9/15/2020	<0.001	<0.001	<0.001	<0.001		
9/16/2020						<0.001
9/17/2020				<0.001		
11/10/2020						<0.001
11/11/2020				<0.001		
12/15/2020				<0.001		<0.001
1/19/2021						<0.001
1/20/2021				<0.001		
2/8/2021	<0.001			<0.001	<0.001	
2/9/2021		<0.001	<0.001			<0.001
3/10/2021	<0.001			<0.001	<0.001	
3/11/2021		<0.001	<0.001			<0.001
8/11/2021	<0.001					<0.001
8/12/2021		<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001			<0.001
2/7/2022				<0.001	<0.001	
8/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001
8/9/2022				<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.001				
5/20/2016			<0.001			
5/23/2016				0.000306 (J)	<0.001	<0.001
7/11/2016		<0.001	<0.001			
7/12/2016				0.0003 (J)	<0.001	<0.001
8/30/2016		<0.001	<0.001			
9/1/2016				0.0003 (J)	<0.001	<0.001
10/20/2016		<0.001	<0.001			
10/24/2016				0.0004	<0.001	
10/25/2016						<0.001
12/7/2016				0.0003 (J)	<0.001	<0.001
12/8/2016		<0.001	<0.001			
1/24/2017		<0.001	<0.001			
1/26/2017				0.0003 (J)	<0.001	<0.001
3/21/2017		<0.001	<0.001			
3/22/2017						<0.001
3/23/2017				0.0003 (J)	<0.001	
5/23/2017		<0.001	<0.001			
5/24/2017				0.0003 (J)	<0.001	<0.001
4/3/2018		<0.001	<0.001		<0.001	<0.001
4/4/2018				0.00028 (J)		
6/5/2018		<0.001	<0.001			
6/6/2018				0.00029 (J)	<0.001	<0.001
10/2/2018		<0.001	<0.001			
10/3/2018				0.00029 (J)	<0.001	<0.001
3/12/2019		<0.001	<0.001			
3/14/2019				0.00028 (J)	<0.001	
3/15/2019						<0.001
4/2/2019		<0.001	<0.001			
4/4/2019					<0.001	<0.001
4/5/2019				0.00028 (J)		
9/24/2019		<0.001	<0.001	0.0003 (J)	<0.001	
9/25/2019						<0.001
3/2/2020		<0.001	<0.001			
3/3/2020				0.00026 (J)	<0.001	<0.001
3/25/2020			5.7E-05 (J)			
3/26/2020		<0.001			<0.001	
3/30/2020				0.00028 (J)		<0.001
9/15/2020		<0.001	<0.001			
9/16/2020	<0.001					
9/17/2020					<0.001	<0.001
9/18/2020				0.00028 (J)		
11/10/2020	<0.001					
12/15/2020	<0.001					
1/19/2021	<0.001					
2/9/2021	<0.001	<0.001	<0.001			
2/10/2021						<0.001
2/11/2021				0.00026 (J)		
2/12/2021					<0.001	
3/10/2021	<0.001					
3/11/2021		<0.001	<0.001			
3/16/2021					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.00034 (J)		<0.001
8/12/2021		<0.001	<0.001			
8/13/2021	<0.001					
8/18/2021				0.00027 (J)		
8/19/2021					<0.001	<0.001
2/1/2022	<0.001					
2/7/2022		<0.001	<0.001			
2/8/2022					<0.001	<0.001
2/9/2022				0.00025 (J)		
8/2/2022	<0.001					
8/10/2022		<0.001	<0.001			<0.001
8/11/2022				0.00024 (J)	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.001					
5/24/2016		<0.001				
7/12/2016	0.0001 (J)	0.0002 (J)				
9/1/2016	<0.001	<0.001				
10/25/2016	<0.001	<0.001				
12/7/2016	<0.001					
12/8/2016		<0.001				
1/26/2017	<0.001	<0.001				
3/22/2017	0.0001 (J)					
3/23/2017		0.0002 (J)				
5/25/2017	0.0001 (J)	0.0002 (J)				
4/3/2018	<0.001	0.00014 (J)				
6/5/2018		0.00016 (J)				
6/6/2018	<0.001					
10/3/2018	<0.001	<0.001				
3/14/2019		<0.001			<0.001	
3/15/2019	<0.001		<0.001	<0.001		
4/4/2019			<0.001			
4/5/2019	0.00013 (J)	0.00014 (J)		<0.001	<0.001	
9/25/2019	0.00012 (J)	0.00019 (J)	<0.001			
9/26/2019					<0.001	
9/27/2019				<0.001		
3/2/2020				<0.001	<0.001	
3/3/2020	0.00011 (J)	0.00013 (J)	<0.001			
3/27/2020				<0.001		
3/31/2020	0.00014 (J)	0.00015 (J)				
4/1/2020			<0.001		<0.001	0.00029 (J)
6/17/2020			<0.001			0.00028 (J)
9/15/2020		0.00016 (J)				
9/16/2020	<0.001					
9/17/2020				<0.001	<0.001	
9/21/2020			<0.001			0.00029 (J)
2/11/2021	<0.001	<0.001	<0.001			
2/12/2021					<0.001	0.00025 (J)
2/15/2021				<0.001		
3/17/2021				<0.001	<0.001	
3/18/2021	<0.001	0.00016 (J)	<0.001			0.00031 (J)
8/18/2021	<0.001					0.0004 (J)
8/19/2021		0.0002 (J)	<0.001	<0.001	<0.001	
2/8/2022	<0.001	<0.001	<0.001	<0.001		0.00025 (J)
2/10/2022					<0.001	
8/10/2022	<0.001	<0.001				<0.001
8/11/2022			<0.001	<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00015 (J)	0.00013 (J)	<0.001	
9/21/2020		<0.001		
9/23/2020	<0.001		<0.001	
2/11/2021			<0.001	
2/15/2021		<0.001		
3/12/2021			<0.001	
3/19/2021		<0.001		
8/16/2021	<0.001			
8/18/2021		<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001
2/9/2022	<0.001			
8/10/2022	<0.001		<0.001	
8/11/2022		<0.001		<0.001

Time Series

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	421	143	267	165		
7/11/2016	363	125		266		
7/12/2016			249			
8/30/2016	330	168	254	292		
10/19/2016	380	176	357	338		
12/6/2016	377	145	285	356		
1/24/2017	342	129	300	131		
3/21/2017	340	103	288	132		
5/22/2017	338	92	263			
5/23/2017				183		
10/3/2017	343	127	300	161		
6/4/2018	415	140	266	240		
10/1/2018	354	135	291	106		
4/1/2019			284			
4/2/2019	452	133		230		
9/23/2019	442	129	268			
9/24/2019				131		
3/25/2020	496	138	284			
3/26/2020				69		
9/15/2020	265	124	258	93		
9/16/2020						272
9/17/2020				188		
11/10/2020						307
11/11/2020				175		
12/15/2020				193		289
1/19/2021						270
1/20/2021				158		
3/10/2021	348			53	163	
3/11/2021		169	267			279
8/11/2021	366					277
8/12/2021		118	265	55	179	
2/1/2022	270	156	350			156
2/7/2022				54	190	
8/2/2022	400	196	287	48		278
8/9/2022					182	

Time Series

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		168				
5/20/2016			223			
5/23/2016				4130	1270	570
7/11/2016		158	225			
7/12/2016				3140	1100	585
8/30/2016		141	232			
9/1/2016				3200	1180	625
10/20/2016		99	225			
10/24/2016				2920	1090	
10/25/2016						563
12/7/2016				2740	1040	561
12/8/2016		116	235			
1/24/2017		156	272			
1/26/2017				3080	1260	608
3/21/2017		144	222			
3/22/2017						599
3/23/2017				3060	1360	
5/23/2017		134	231			
5/24/2017				3140	1320	598
10/3/2017		147	243			
10/4/2017				3210	1340	626
6/5/2018		152	235			
6/6/2018				2620	1120	678
10/2/2018		146	228			
10/3/2018				2430	1140	700
4/2/2019		144	238			
4/4/2019					926	704
4/5/2019				2310		
9/24/2019		133	222	2470	1140	
9/25/2019						813
3/25/2020			240			
3/26/2020		104			1000	
3/30/2020				2590		787
9/15/2020		116	217			
9/16/2020	270					
9/17/2020					956	804
9/18/2020				2440		
11/10/2020	287					
12/15/2020	295					
1/19/2021	278					
3/10/2021	289					
3/11/2021		118	215			
3/16/2021					92	
3/17/2021				1640		768
8/12/2021		158	229			
8/13/2021	436					
8/18/2021				2350		
8/19/2021					958	816
2/1/2022	444					
2/7/2022		135	224			
2/8/2022					866	852
2/9/2022				2310		

Time Series

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	311					
8/10/2022		134	217			894
8/11/2022				1060	940	

Time Series

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	1010					
5/24/2016		1900				
7/12/2016	976	1950				
9/1/2016	1060	2000				
10/25/2016	<25	1870				
12/7/2016	866					
12/8/2016		1930				
1/26/2017	1000	1950				
3/22/2017	1080					
3/23/2017		2080				
5/25/2017	1080	1970				
10/4/2017	1210	2200				
6/5/2018		1880				
6/6/2018	1180					
10/3/2018	1250	2180				
4/4/2019			1800			
4/5/2019	1260	1610		890	1400	
9/25/2019	1280	1960	1970			
9/26/2019					1400	
9/27/2019				1110		
1/22/2020						2310
3/27/2020				1100		
3/31/2020	1310	1860				
4/1/2020			1940		1530	2590
6/17/2020			2100			2540
9/15/2020		1890				
9/16/2020	1220					
9/17/2020				1090	1360	
9/21/2020			2060			2340
3/17/2021				998	990	
3/18/2021	1020	1390	1390			1790
8/18/2021	1290					3690
8/19/2021		1750	1920	1030	1440	
2/8/2022	1160	1770	1810	1070		2480
2/10/2022					1260	
8/10/2022	1390	1890				2050
8/11/2022			356	960	2700	

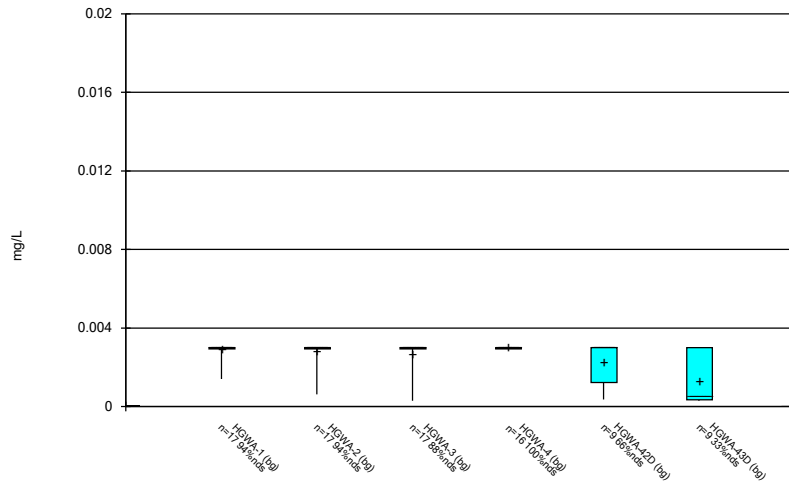
Time Series

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 10/31/2022 2:07 PM View: Descriptive
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	2320	2310	888	
9/21/2020		2210		
9/23/2020	2430		894	
3/12/2021			890	
3/19/2021		1690		
8/16/2021	2340			
8/18/2021		2390	950	2610
2/8/2022		2410	882	2430
2/9/2022	2260			
8/10/2022	2310		2770	
8/11/2022		1070		2080

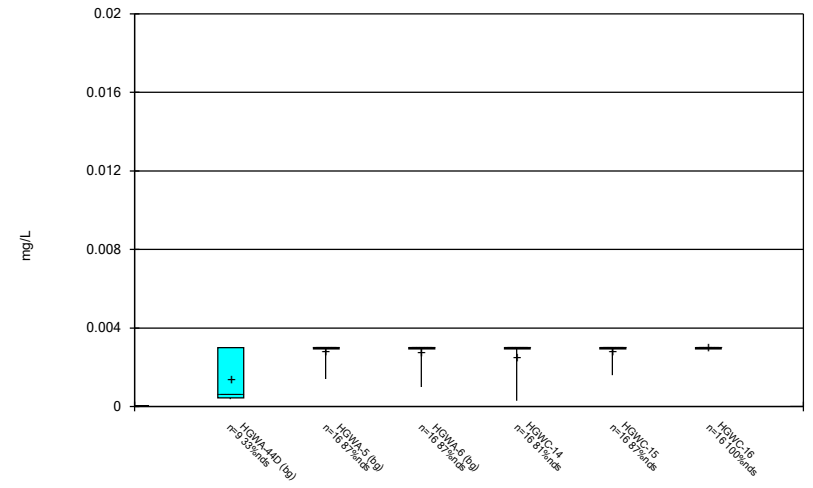
FIGURE B.

Box & Whiskers Plot



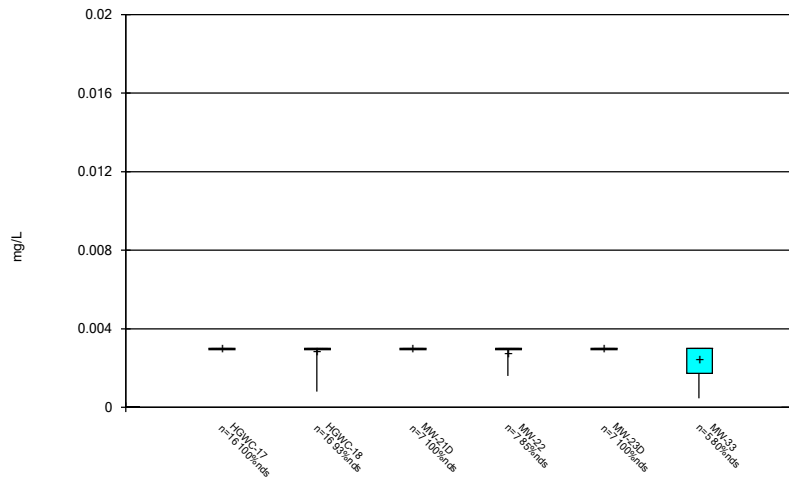
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Box & Whiskers Plot



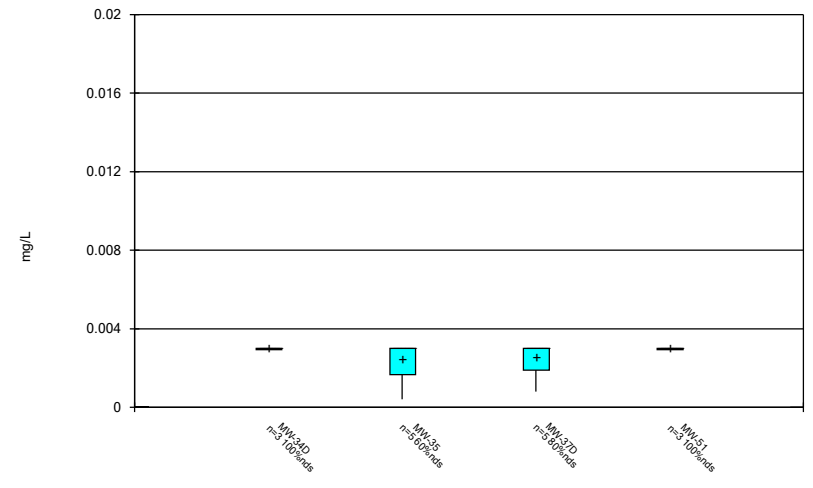
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



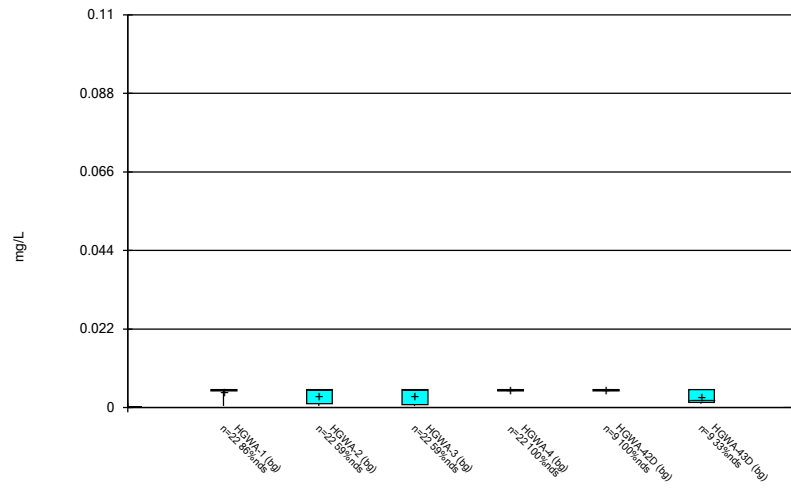
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



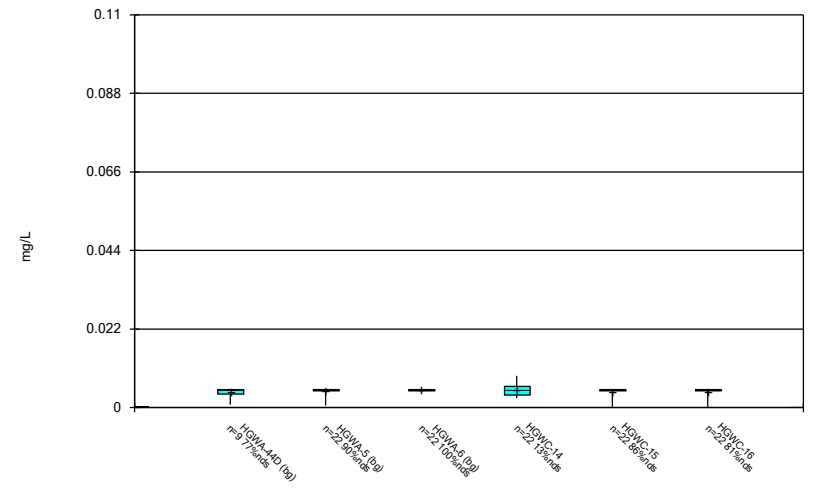
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Box & Whiskers Plot



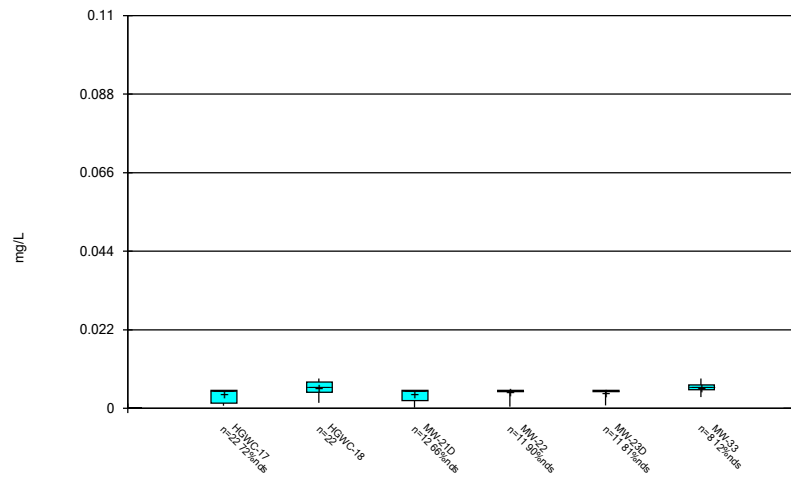
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Box & Whiskers Plot



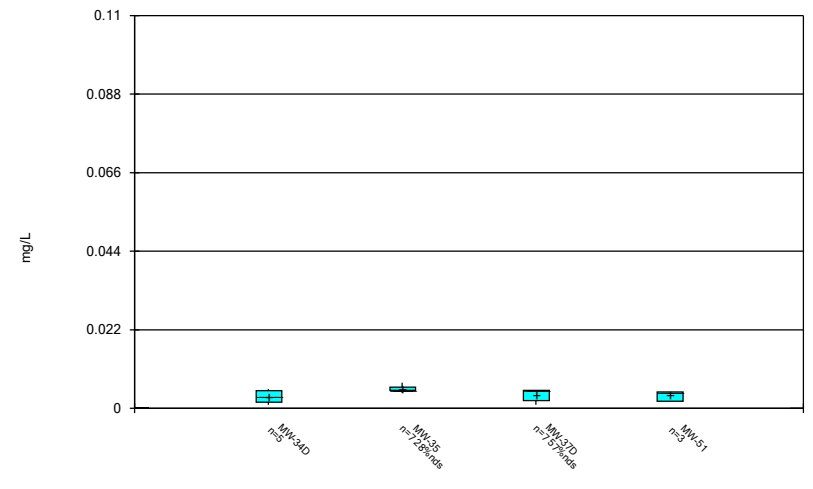
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Box & Whiskers Plot



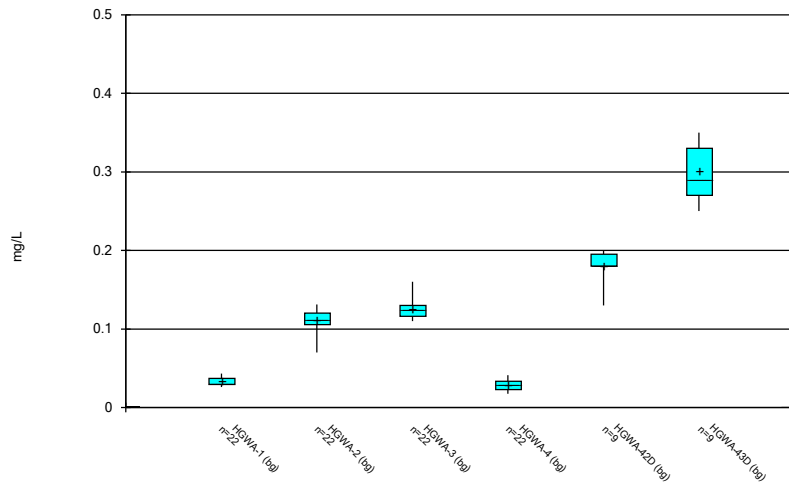
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Box & Whiskers Plot



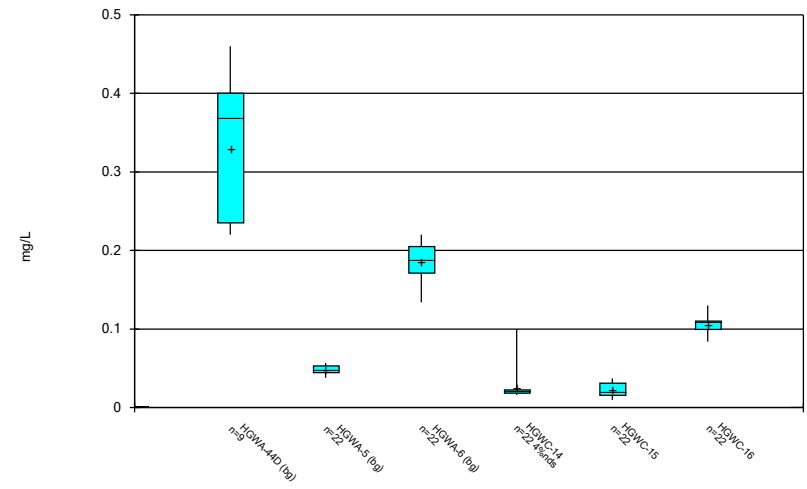
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Box & Whiskers Plot



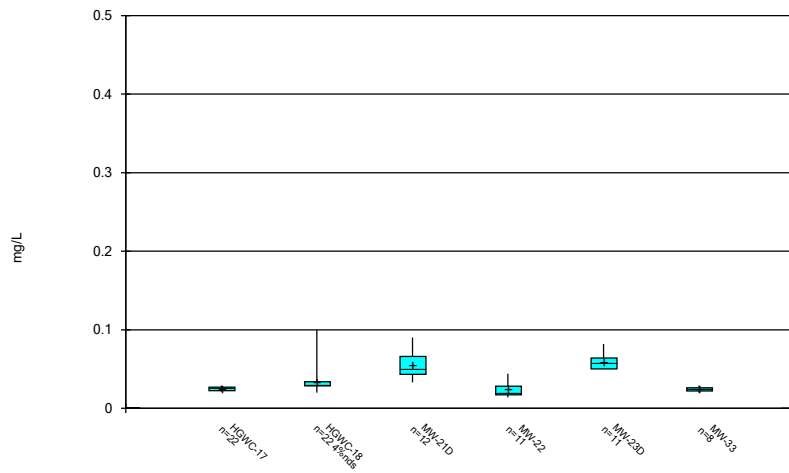
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Box & Whiskers Plot



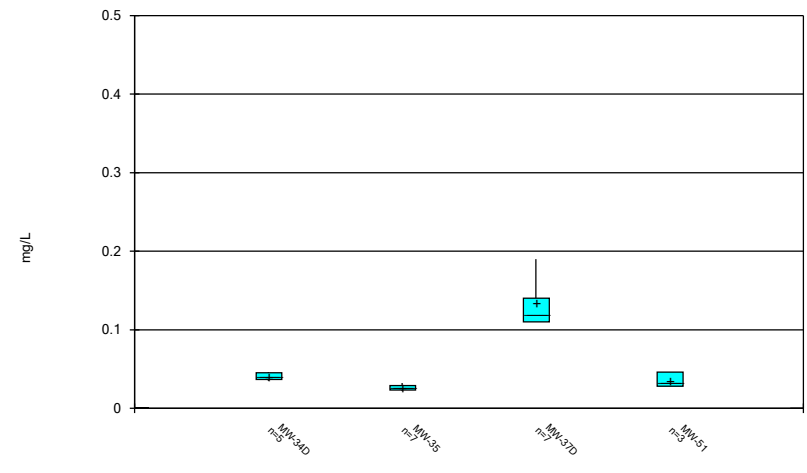
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Box & Whiskers Plot



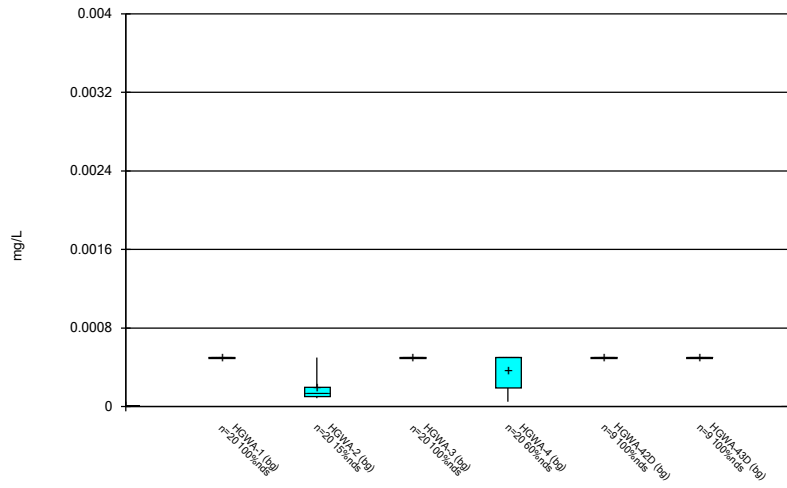
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Box & Whiskers Plot



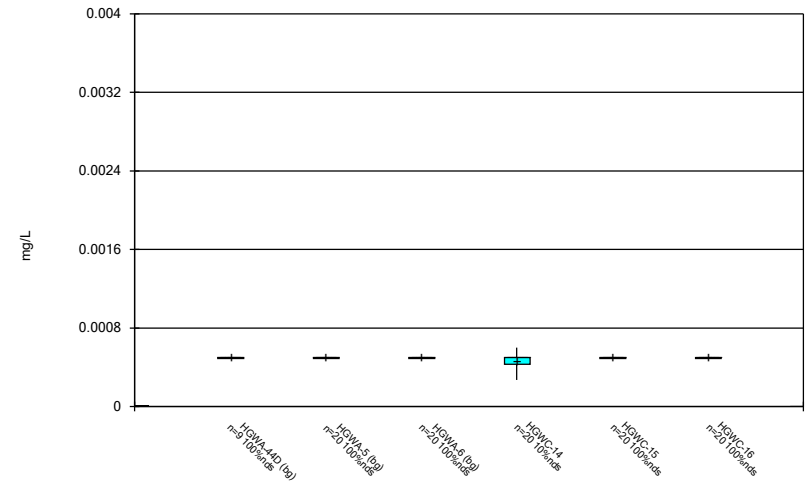
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Box & Whiskers Plot



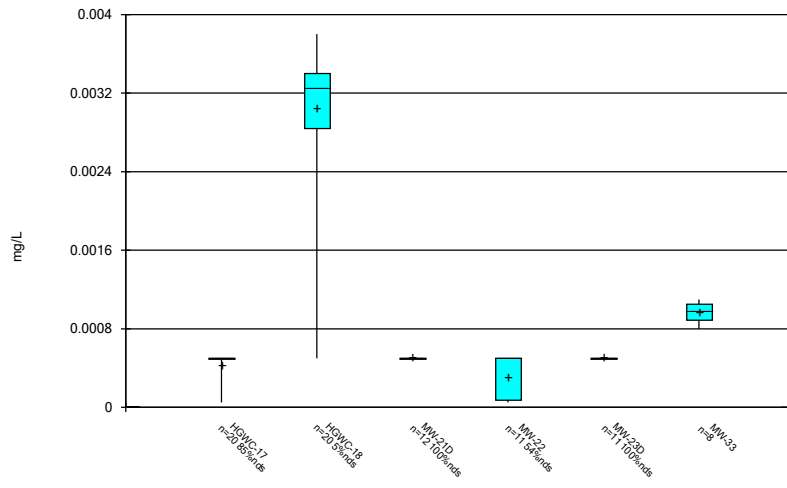
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Box & Whiskers Plot



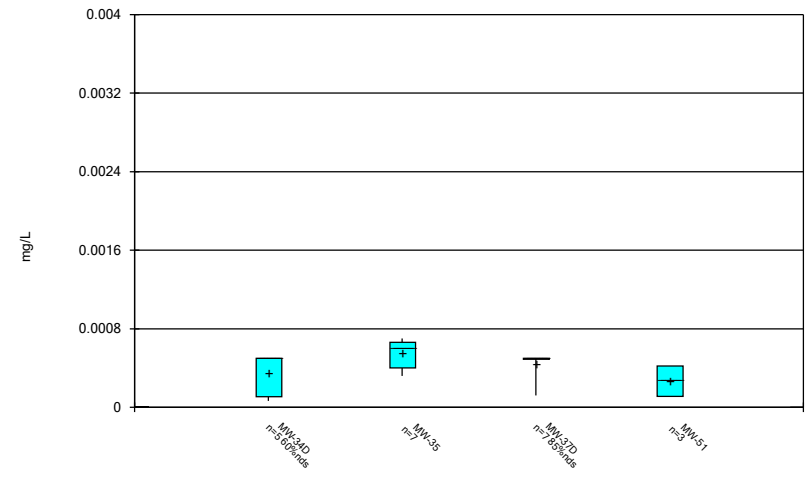
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Box & Whiskers Plot



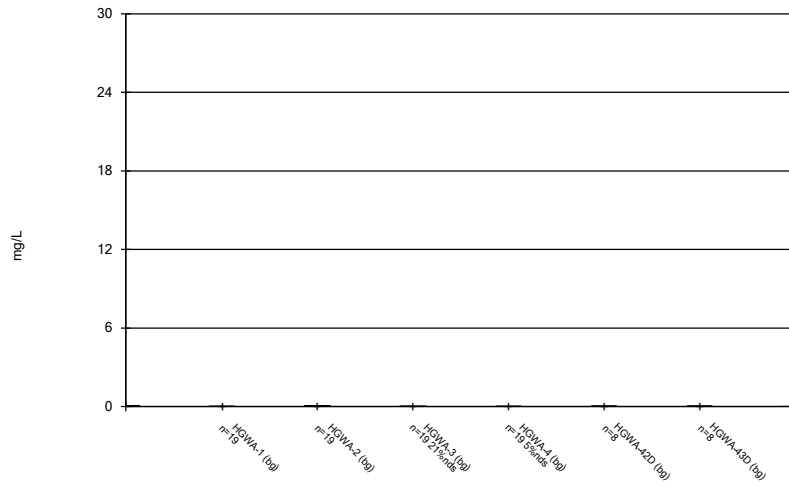
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Box & Whiskers Plot



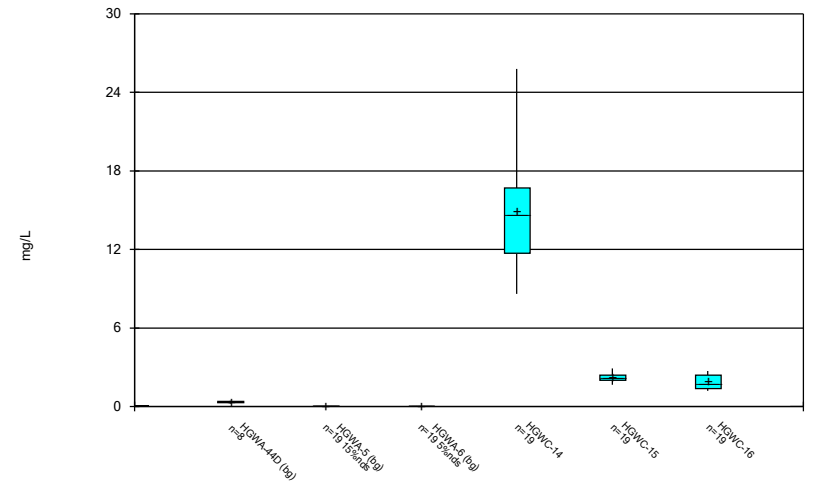
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Box & Whiskers Plot



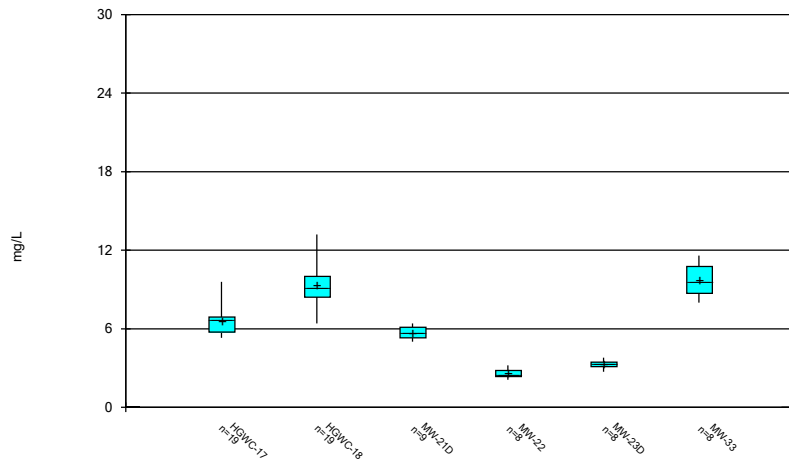
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Box & Whiskers Plot



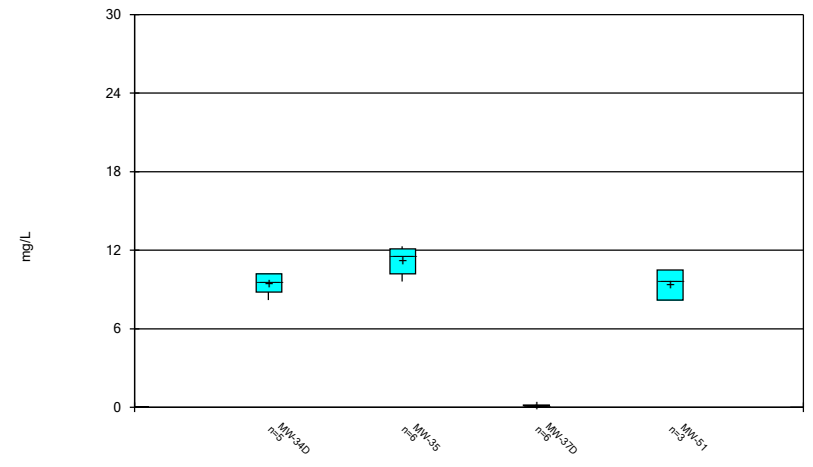
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Box & Whiskers Plot



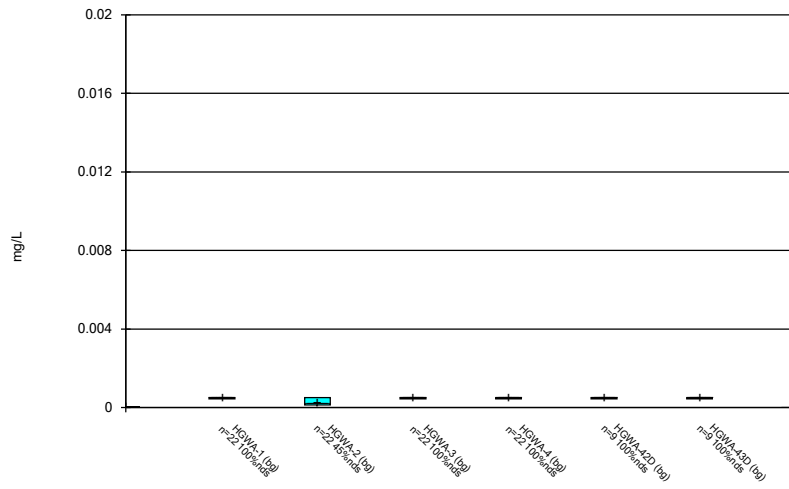
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Box & Whiskers Plot



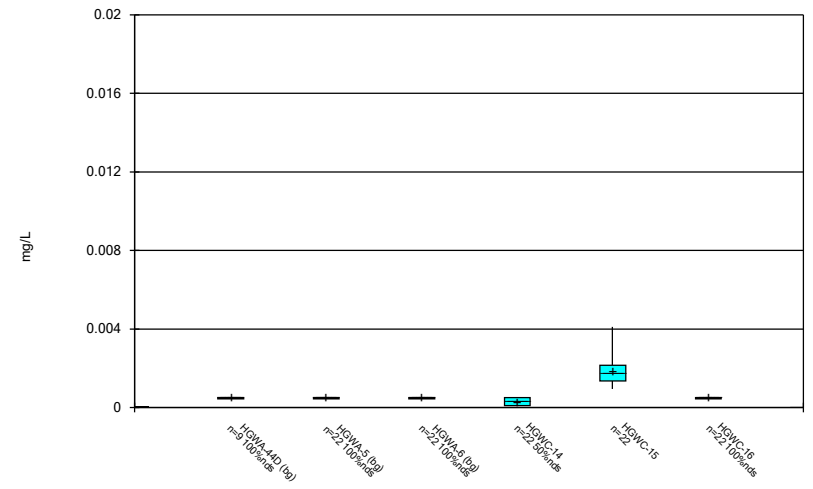
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Box & Whiskers Plot



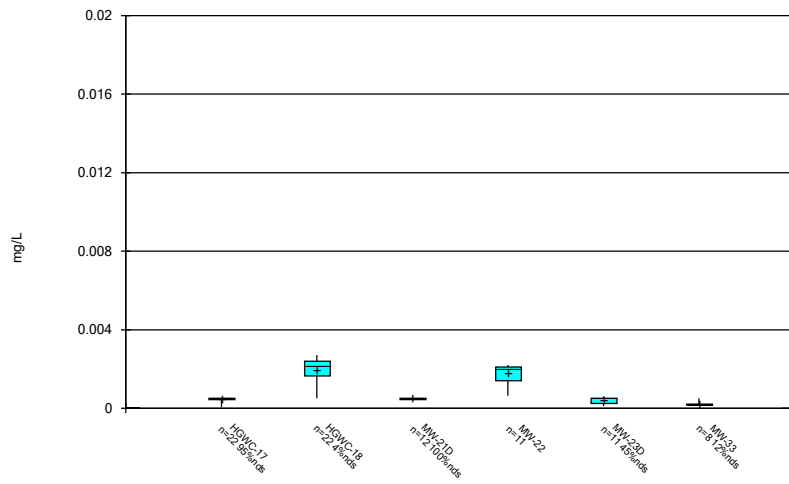
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Box & Whiskers Plot



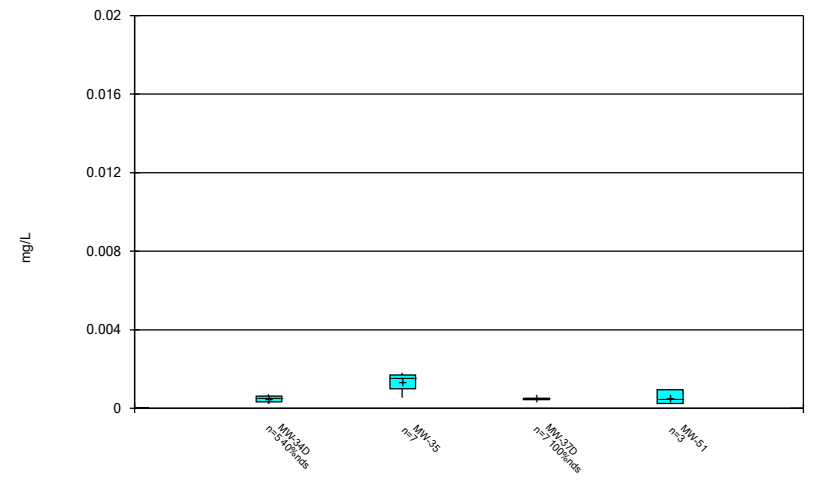
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



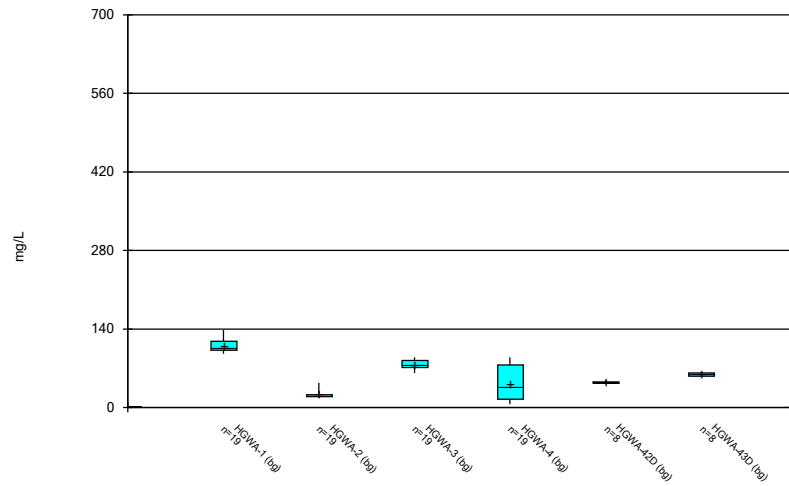
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Box & Whiskers Plot



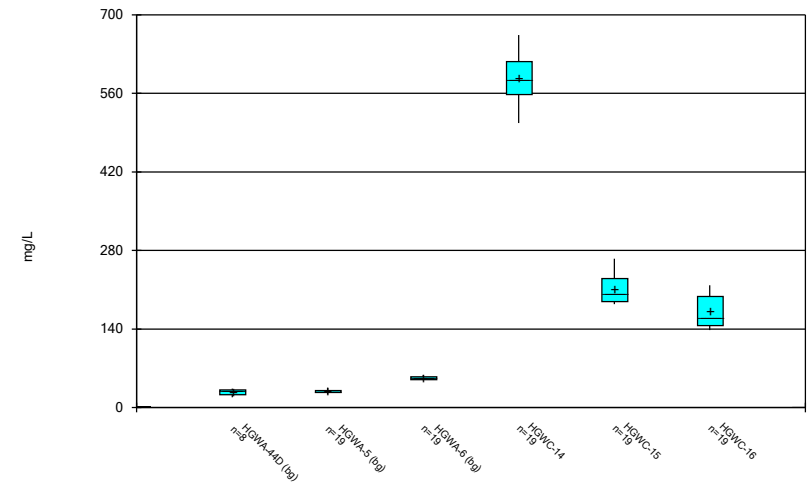
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Box & Whiskers Plot



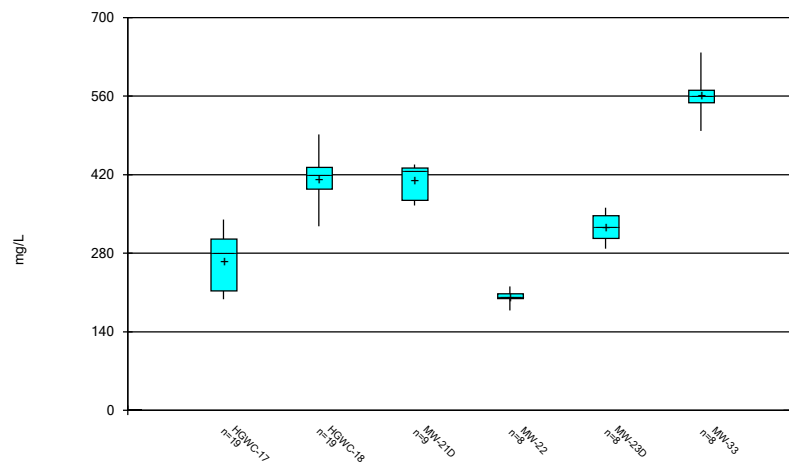
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Box & Whiskers Plot



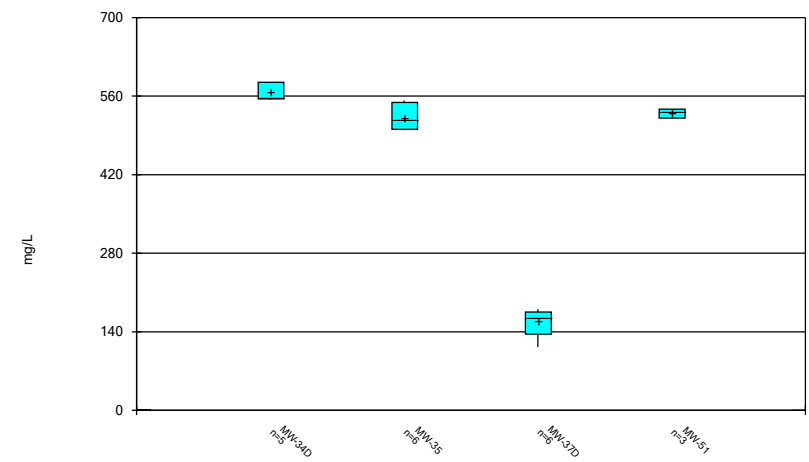
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Box & Whiskers Plot



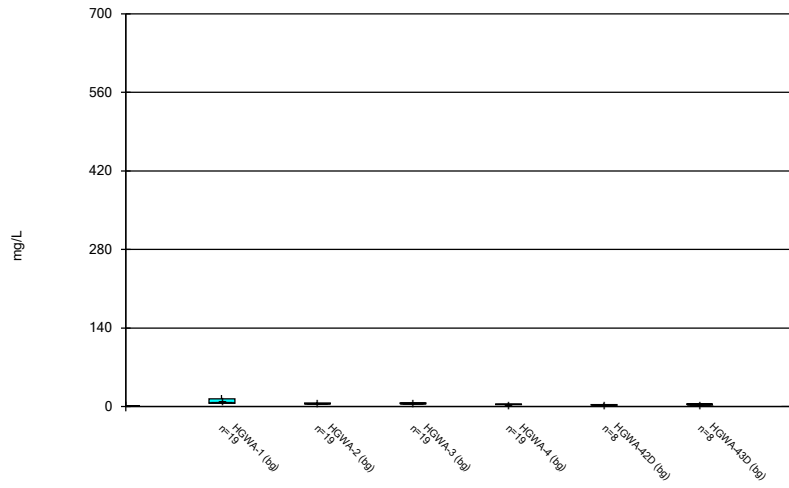
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Box & Whiskers Plot



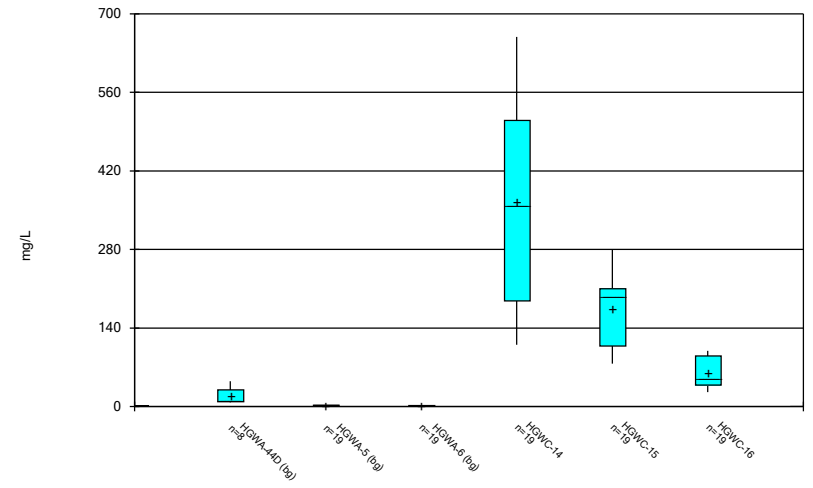
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Box & Whiskers Plot



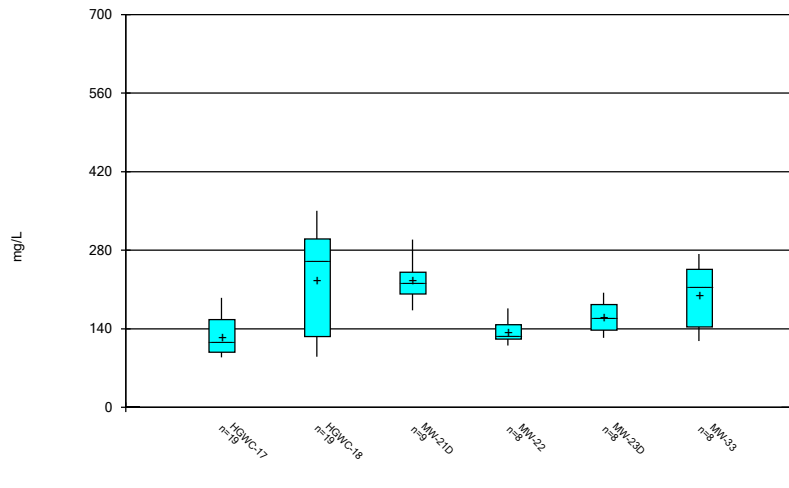
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Box & Whiskers Plot



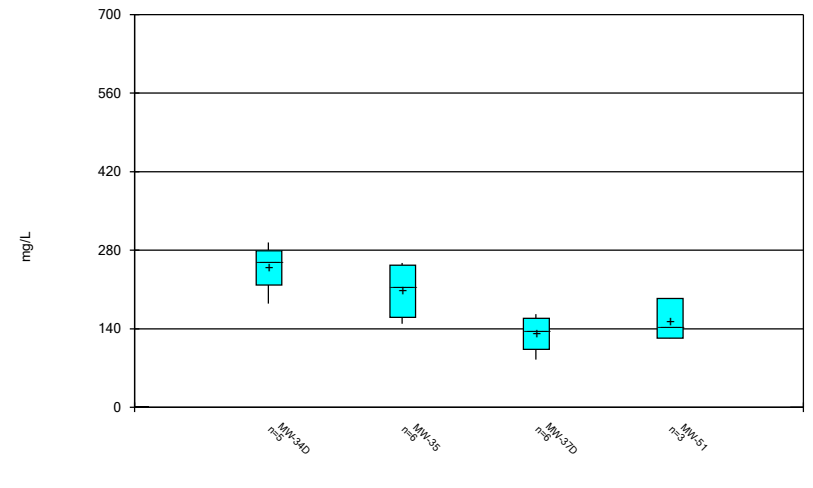
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Box & Whiskers Plot



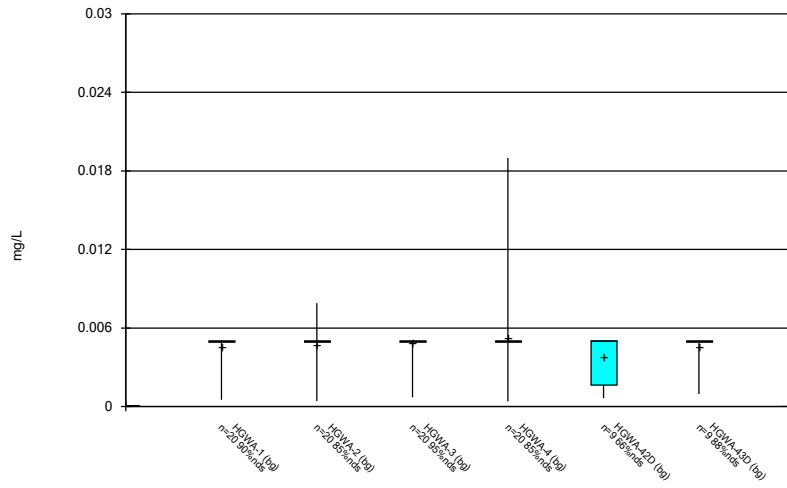
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Box & Whiskers Plot



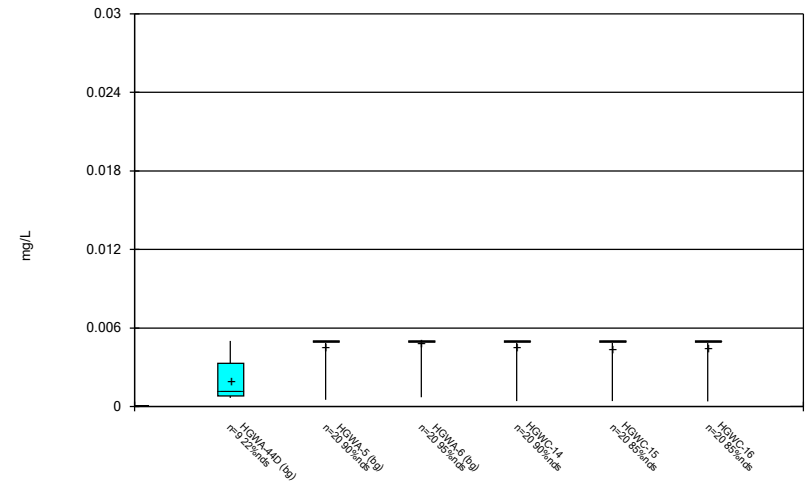
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Box & Whiskers Plot



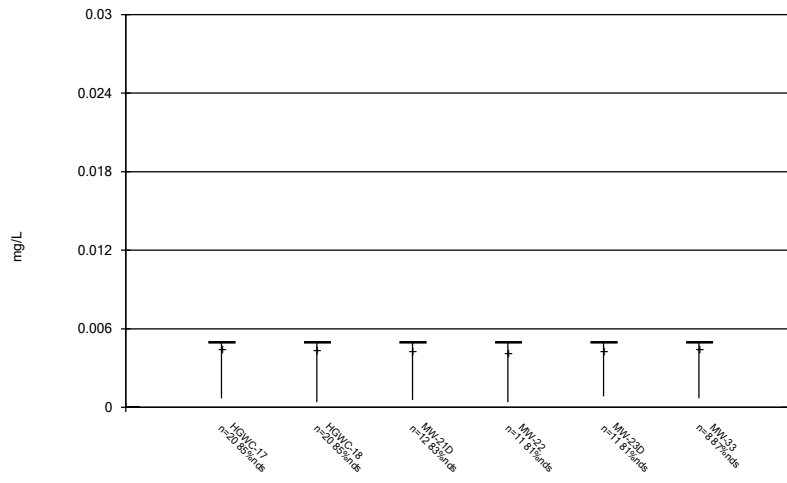
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Box & Whiskers Plot



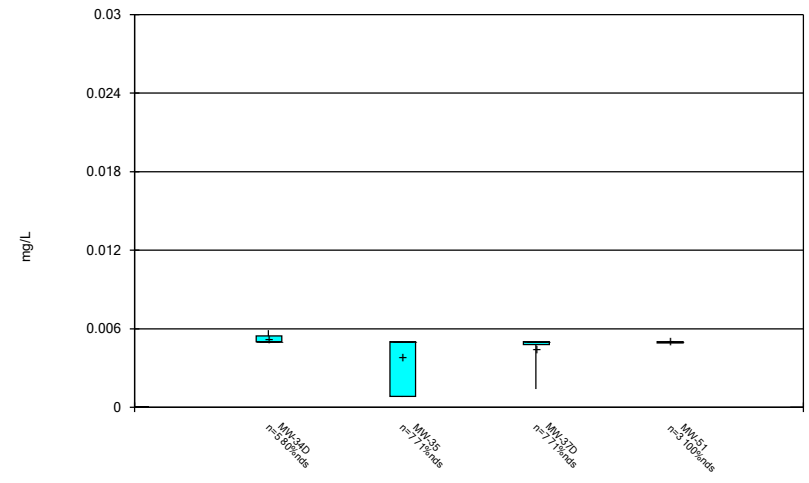
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Box & Whiskers Plot



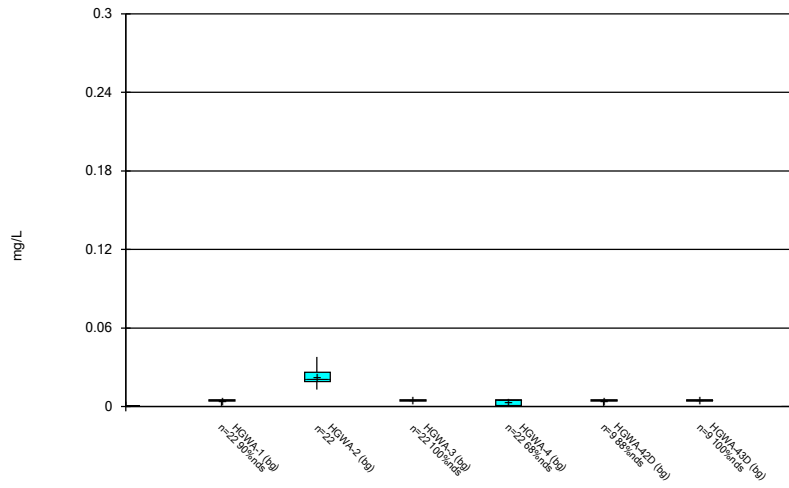
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Box & Whiskers Plot



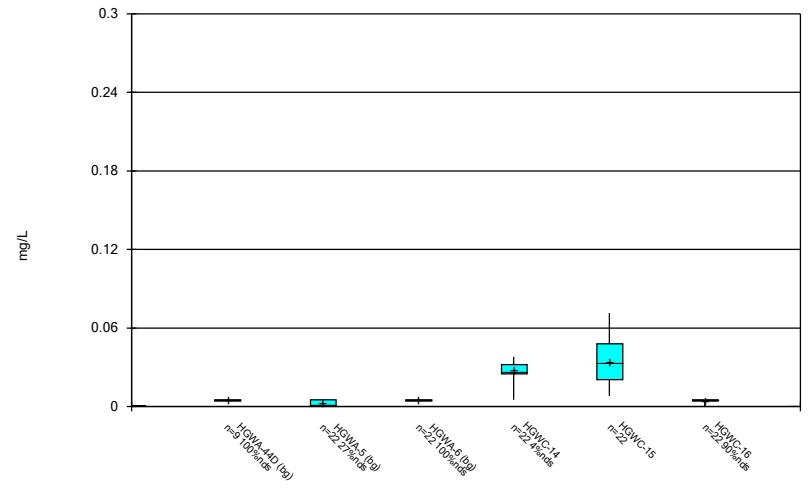
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Box & Whiskers Plot



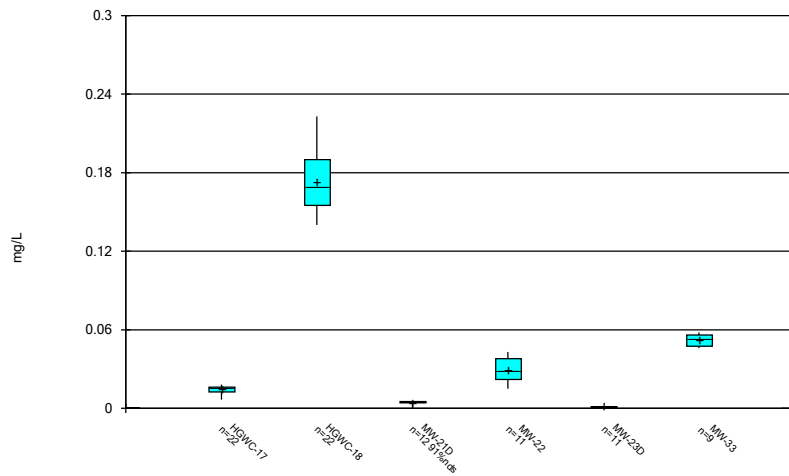
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Box & Whiskers Plot



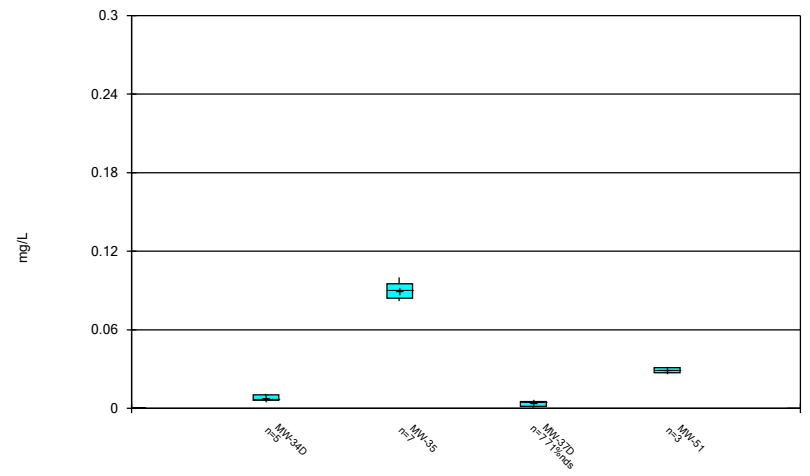
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Box & Whiskers Plot



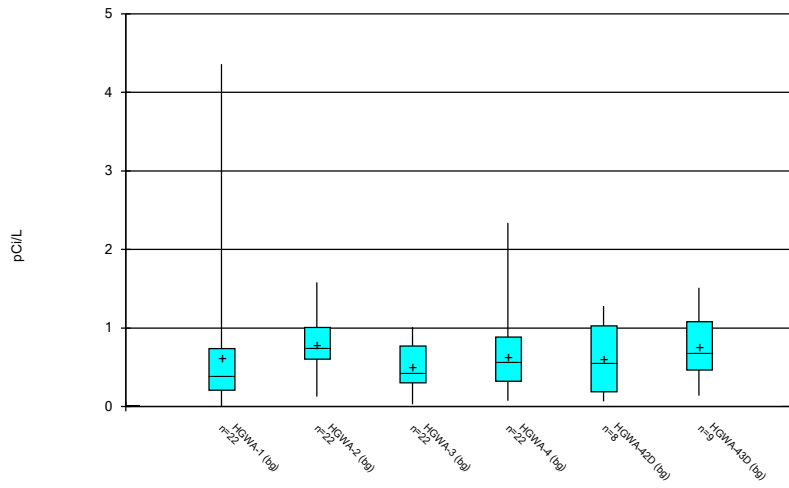
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Box & Whiskers Plot



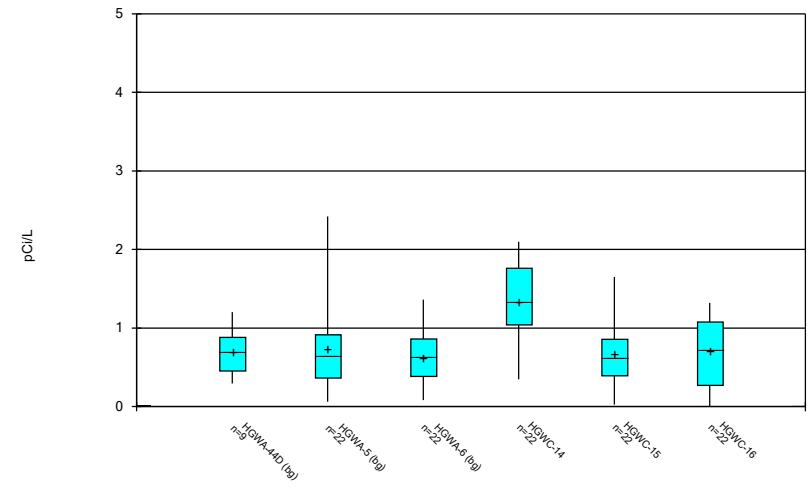
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Box & Whiskers Plot



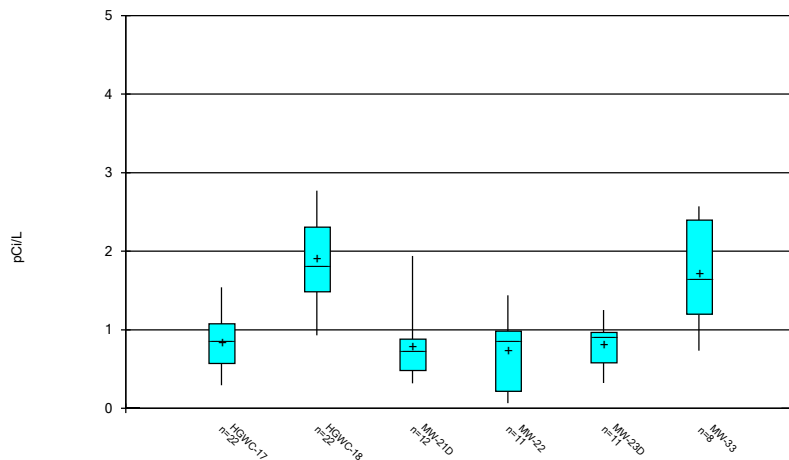
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



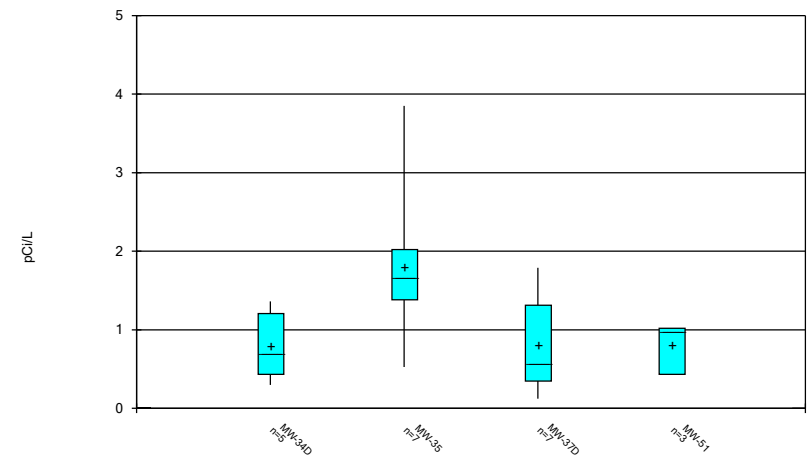
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Box & Whiskers Plot



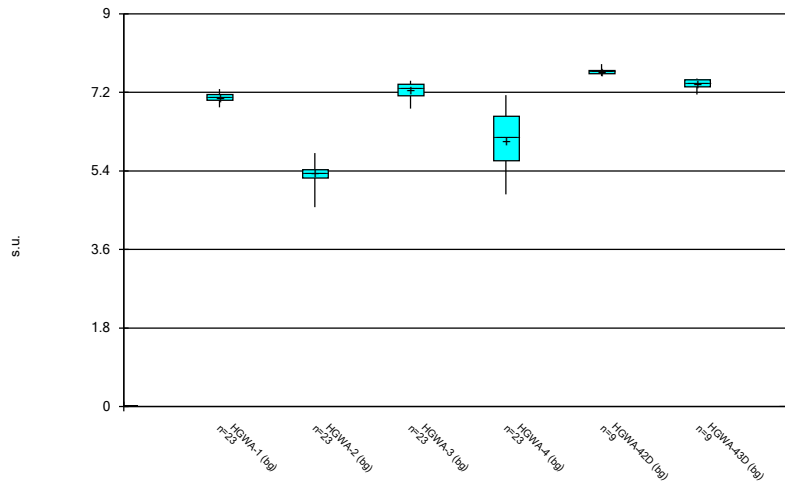
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Box & Whiskers Plot



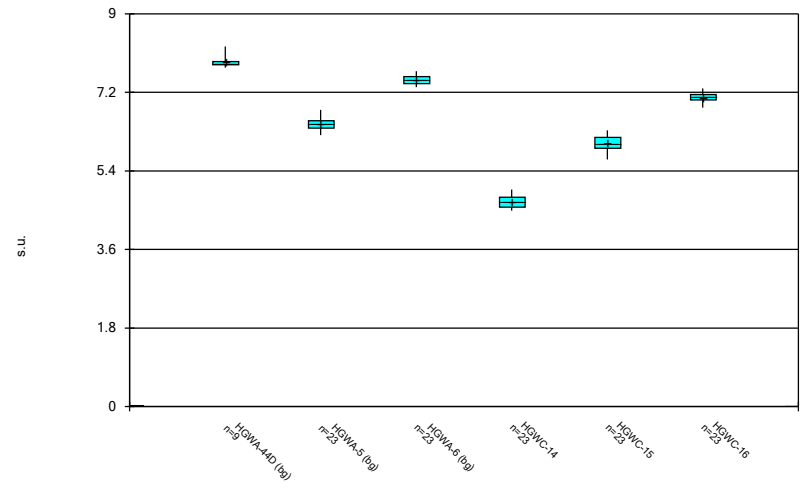
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Box & Whiskers Plot



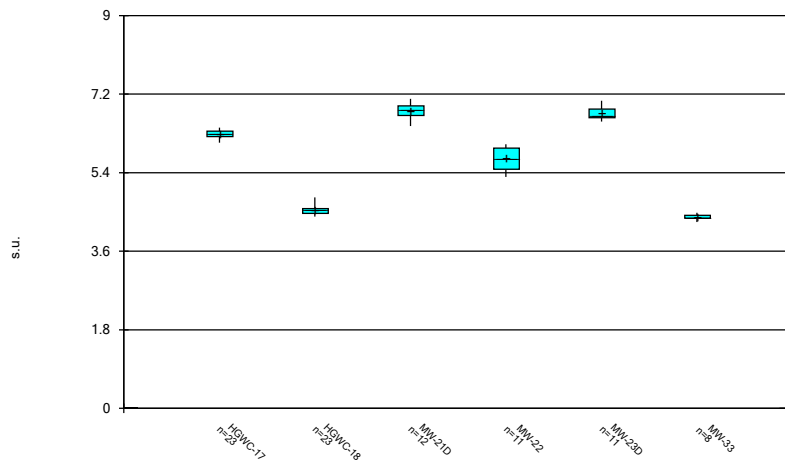
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Box & Whiskers Plot



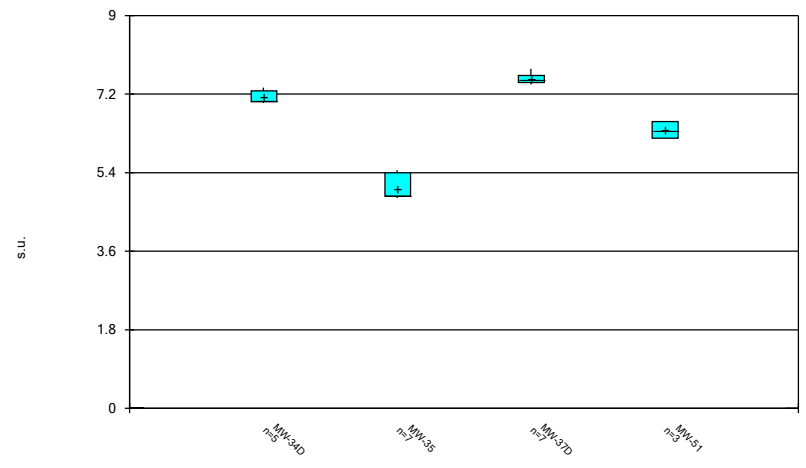
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Box & Whiskers Plot



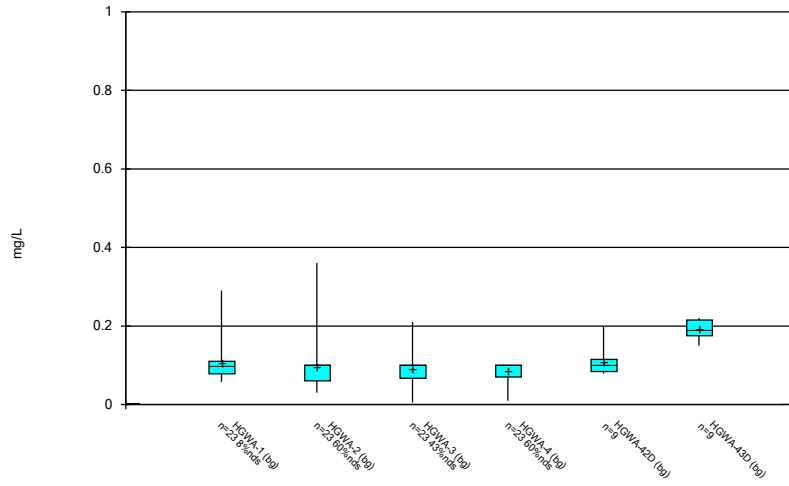
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Box & Whiskers Plot



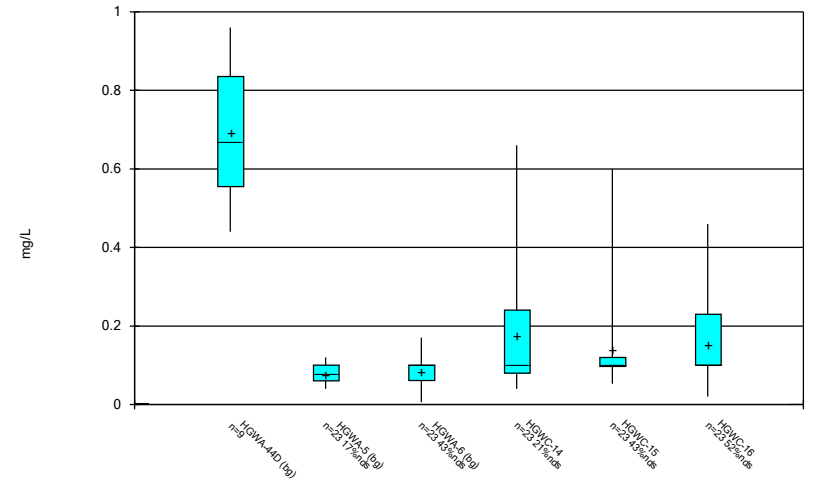
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Box & Whiskers Plot



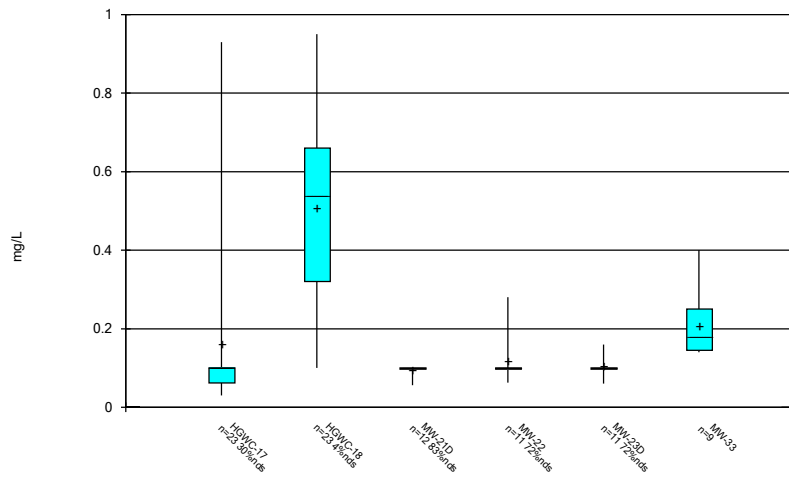
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Box & Whiskers Plot



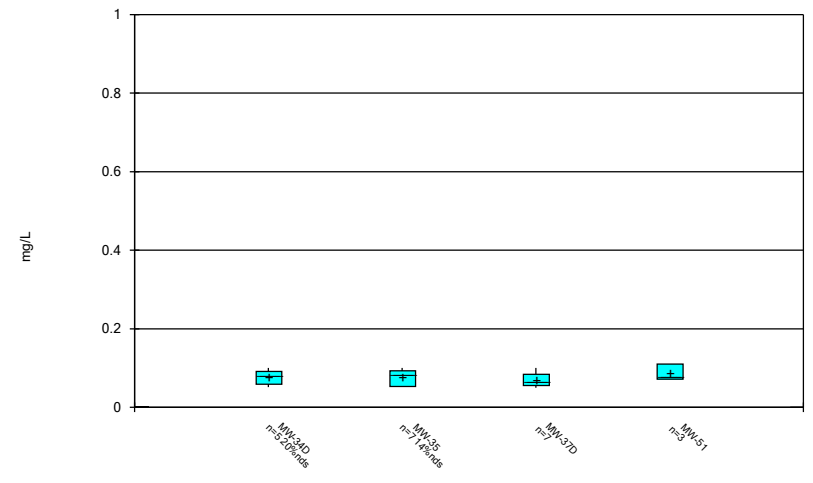
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Box & Whiskers Plot



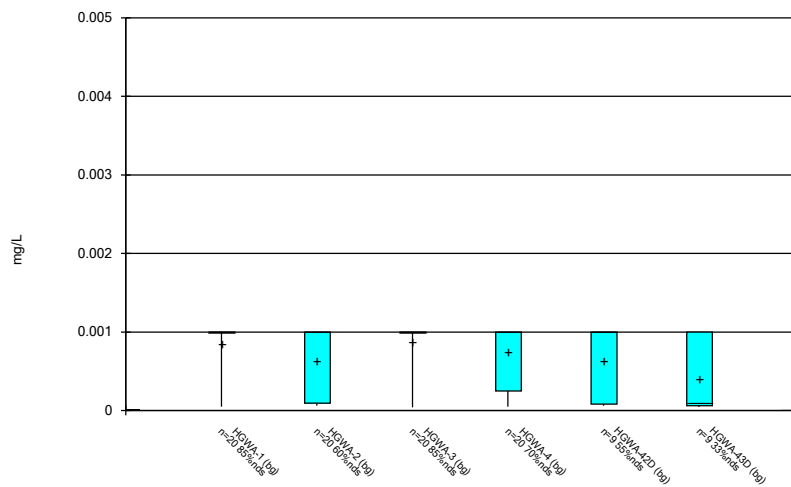
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Box & Whiskers Plot



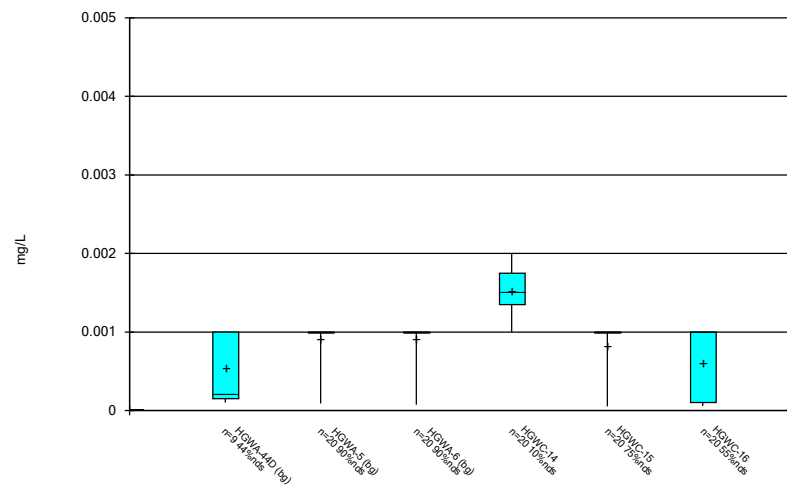
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Box & Whiskers Plot



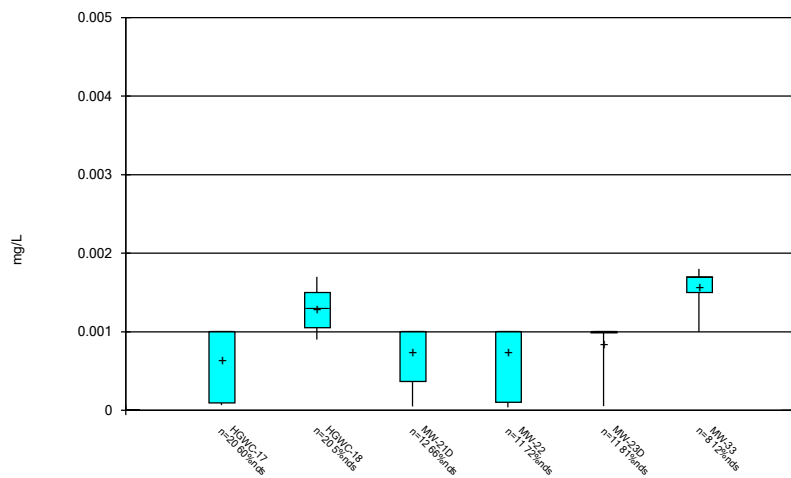
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Box & Whiskers Plot



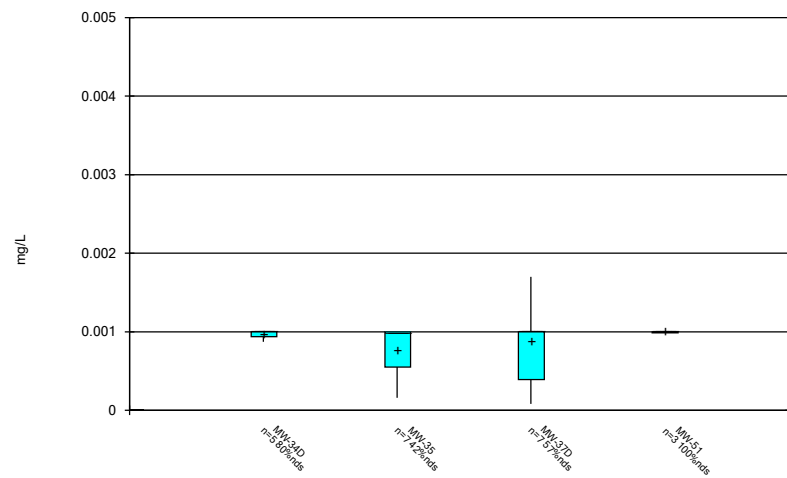
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Box & Whiskers Plot



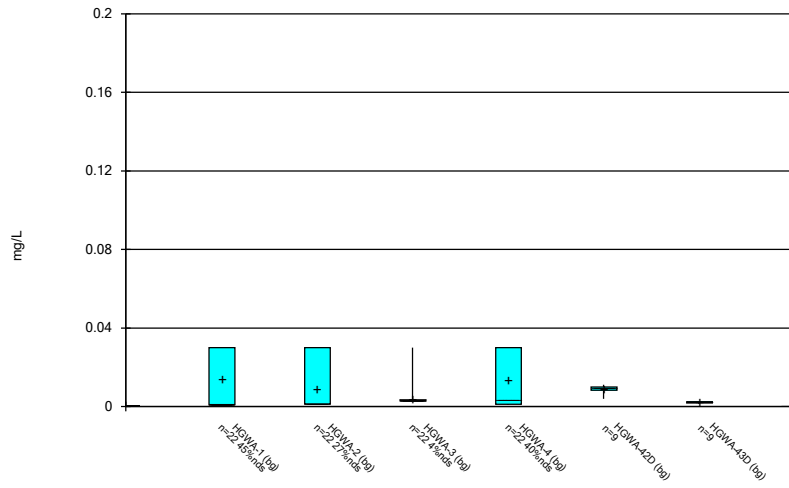
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



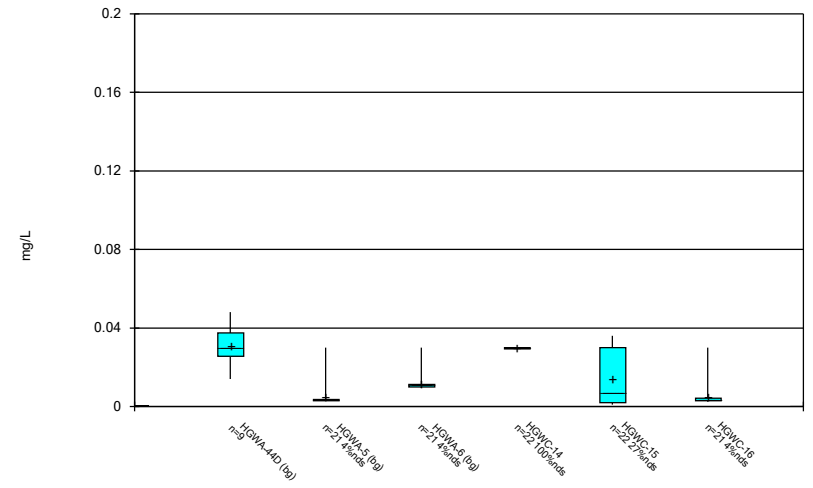
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Box & Whiskers Plot



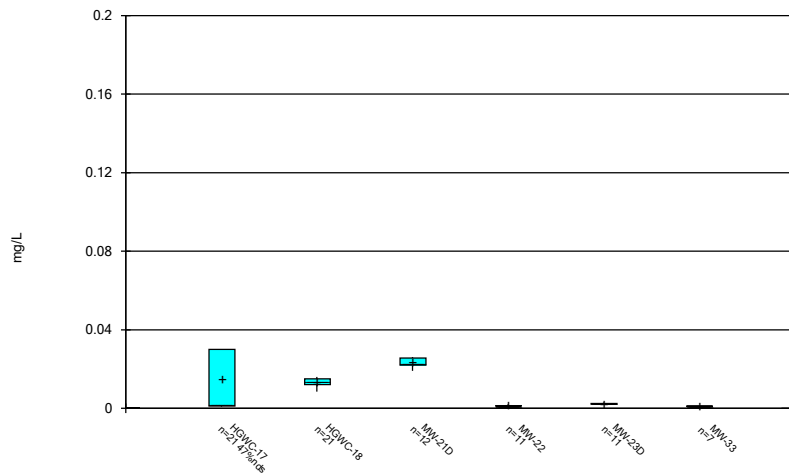
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Box & Whiskers Plot



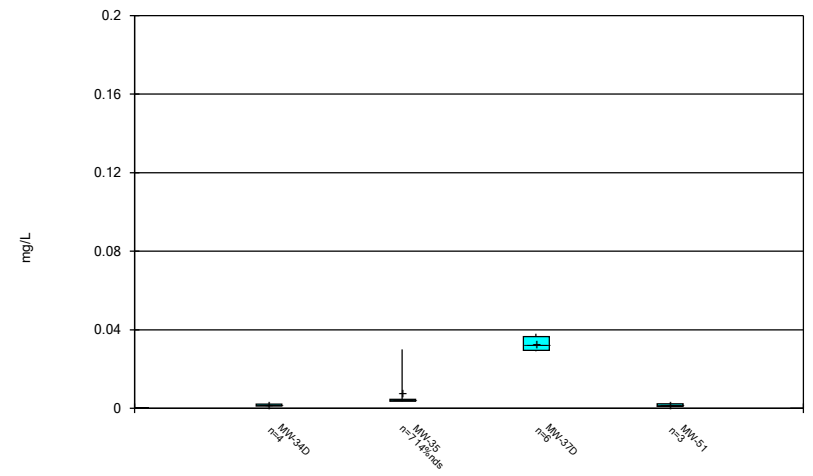
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Box & Whiskers Plot



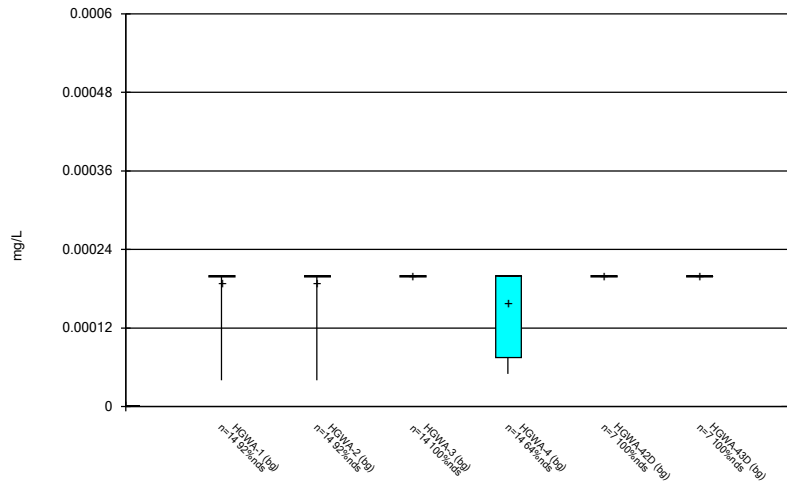
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Box & Whiskers Plot



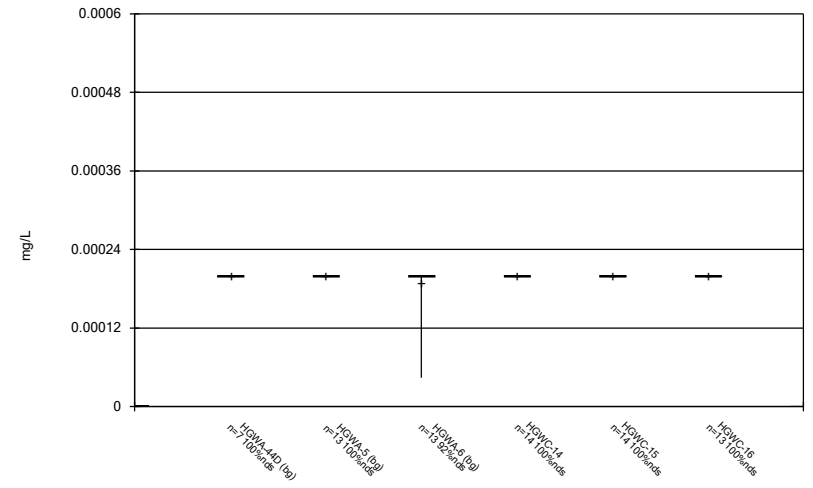
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Box & Whiskers Plot



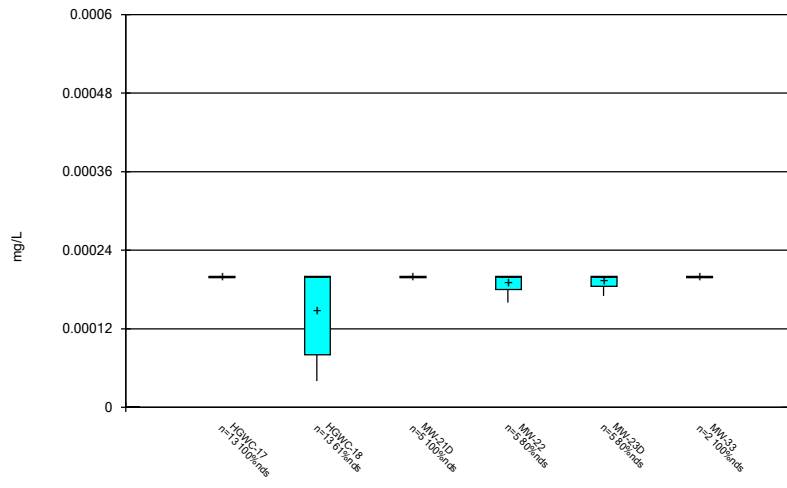
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Box & Whiskers Plot



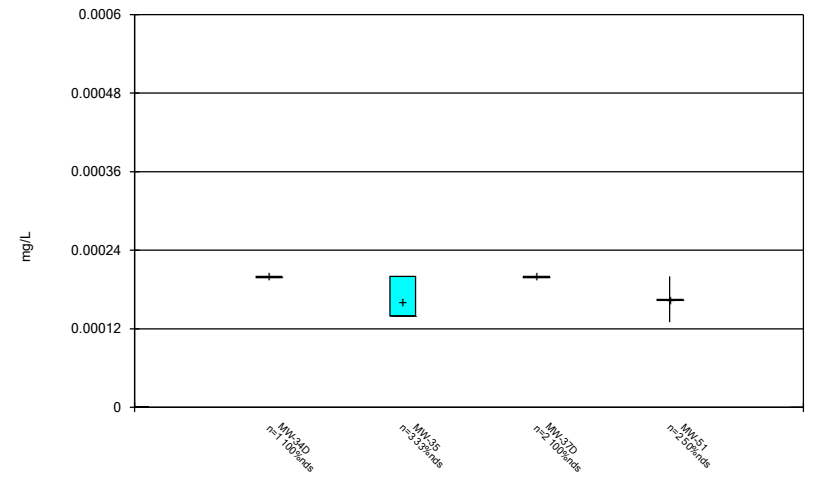
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Box & Whiskers Plot



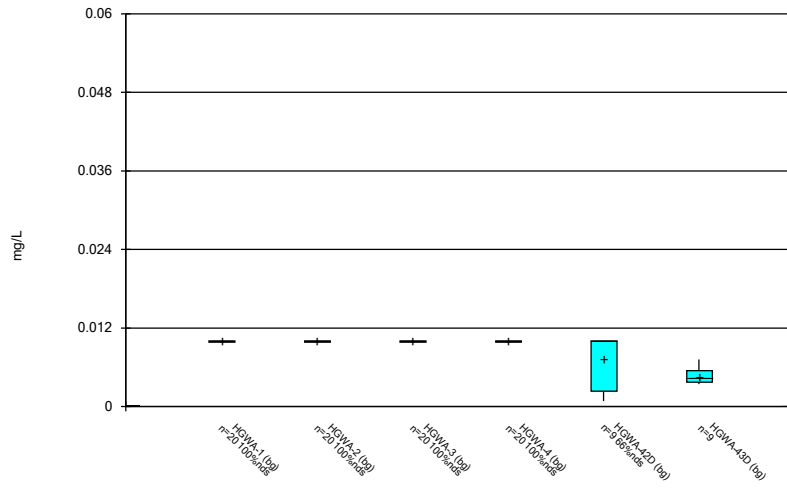
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Box & Whiskers Plot



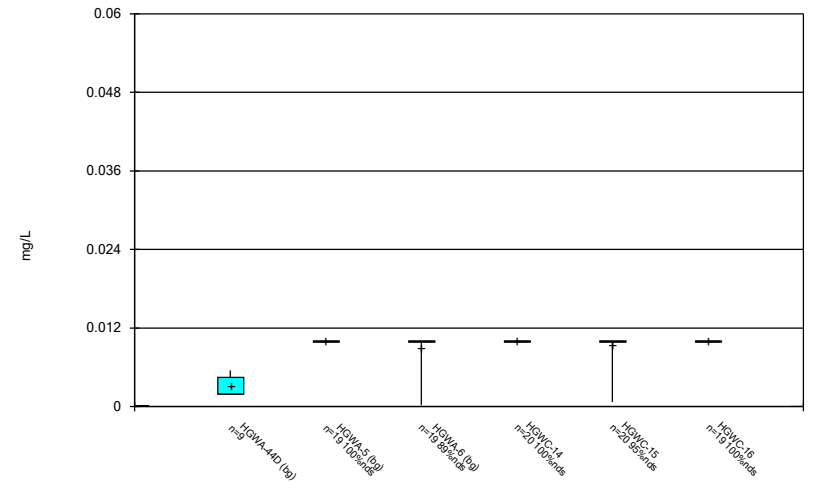
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Box & Whiskers Plot



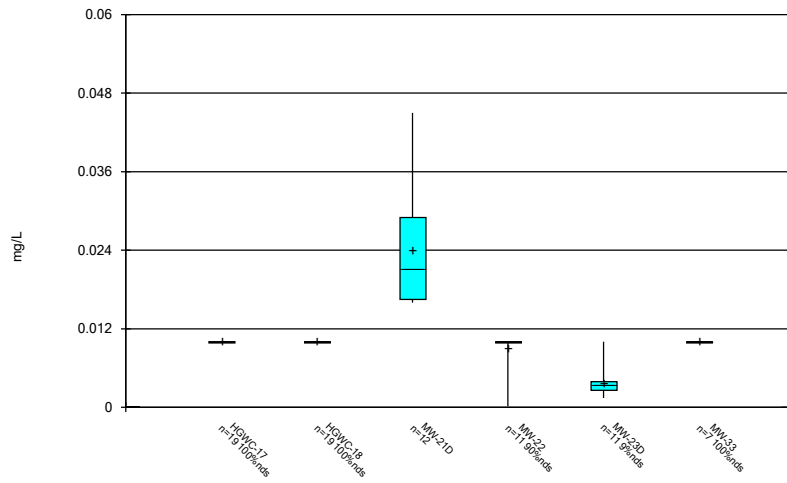
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Box & Whiskers Plot



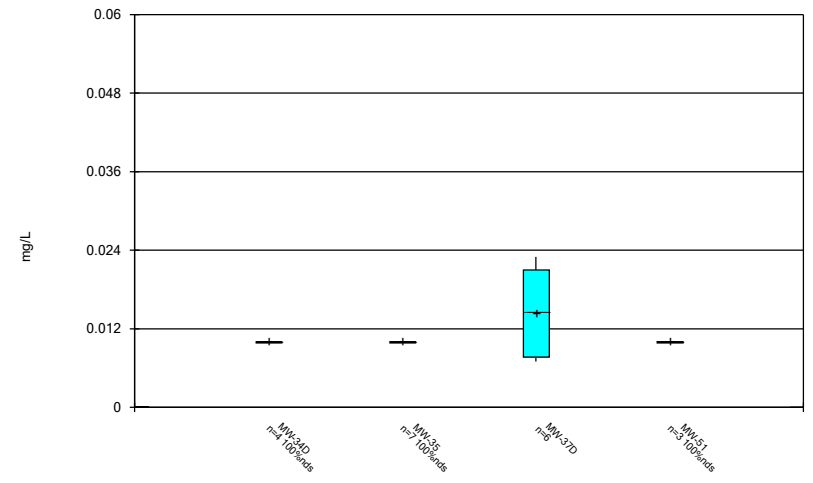
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Box & Whiskers Plot



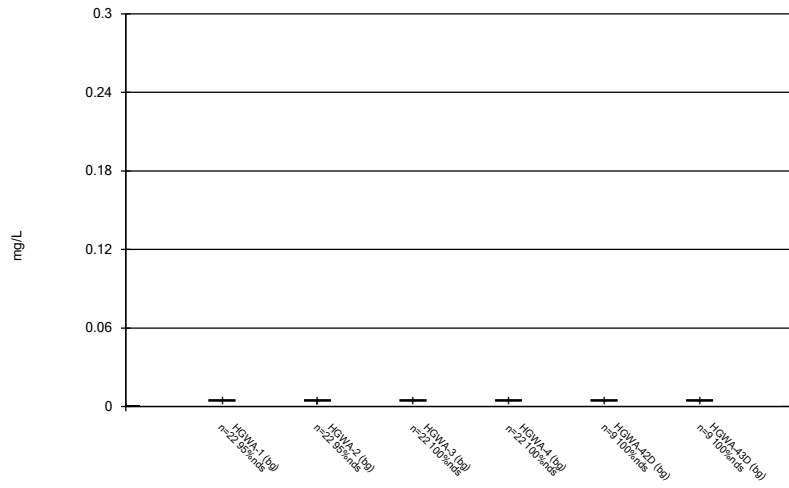
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Box & Whiskers Plot



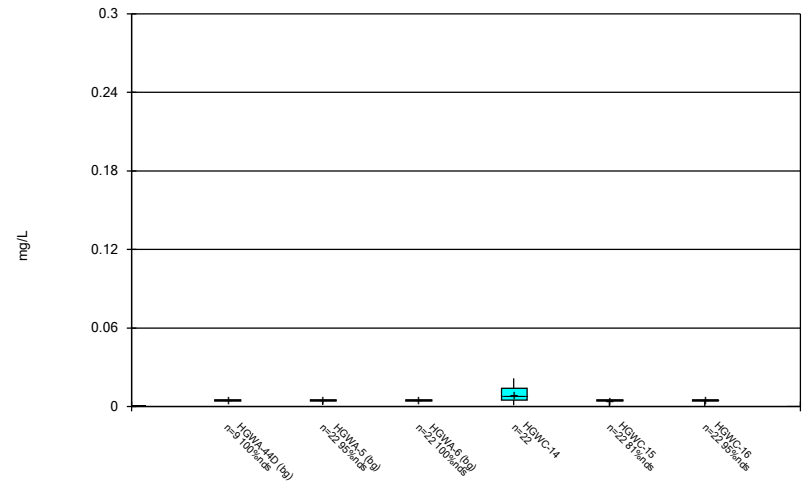
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Box & Whiskers Plot



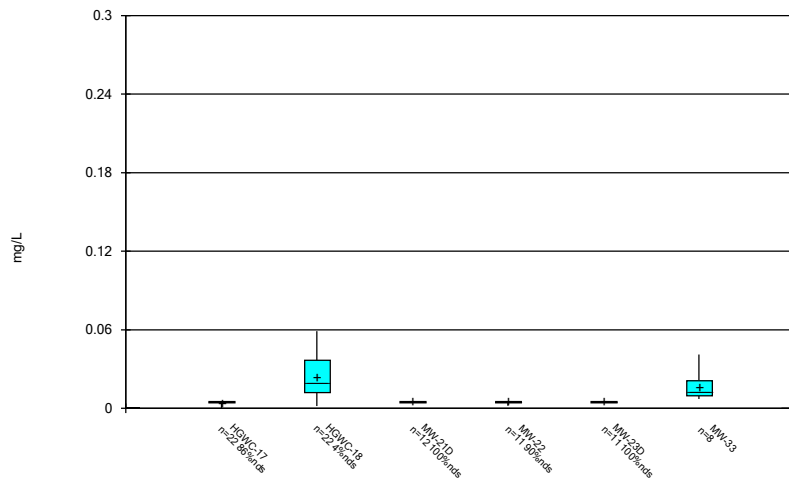
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Box & Whiskers Plot



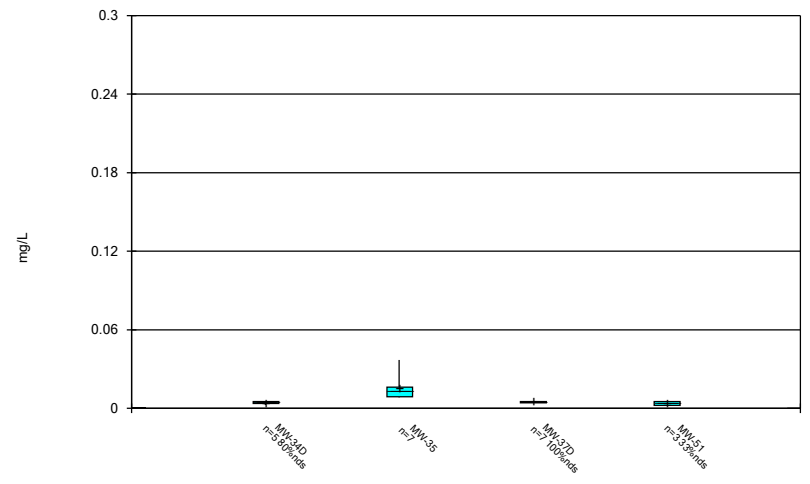
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Box & Whiskers Plot



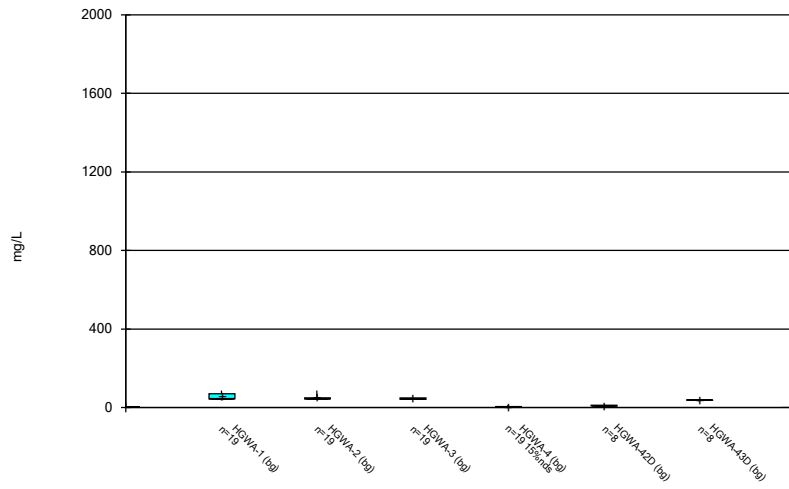
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Box & Whiskers Plot



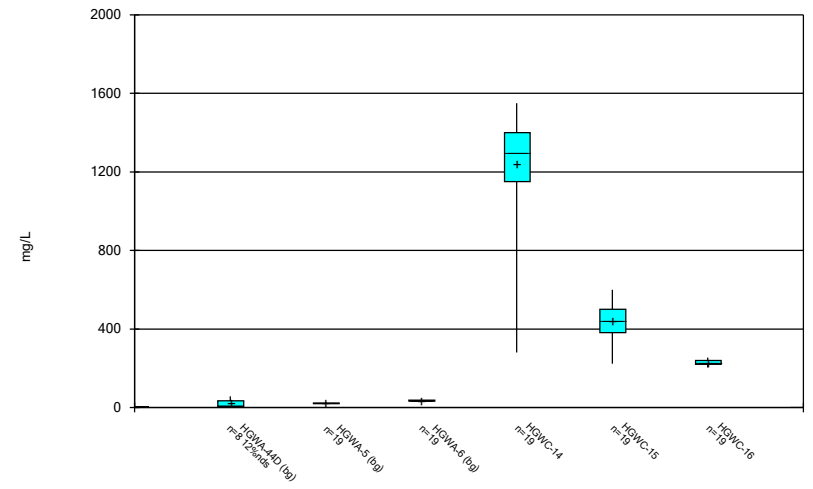
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Box & Whiskers Plot



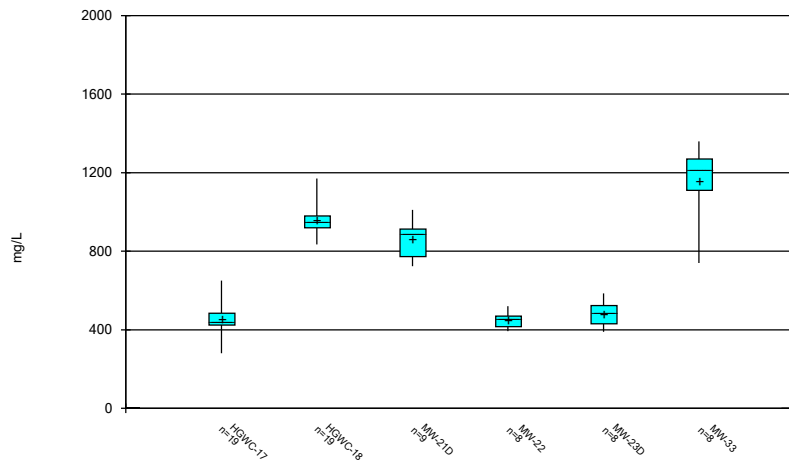
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Box & Whiskers Plot



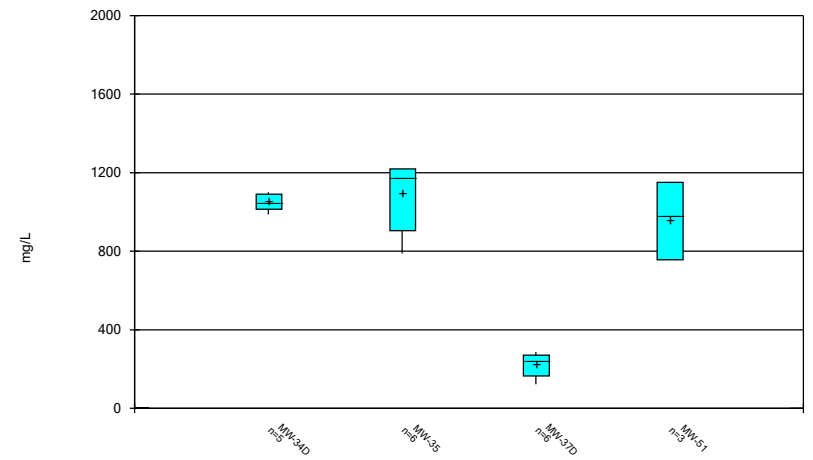
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Box & Whiskers Plot



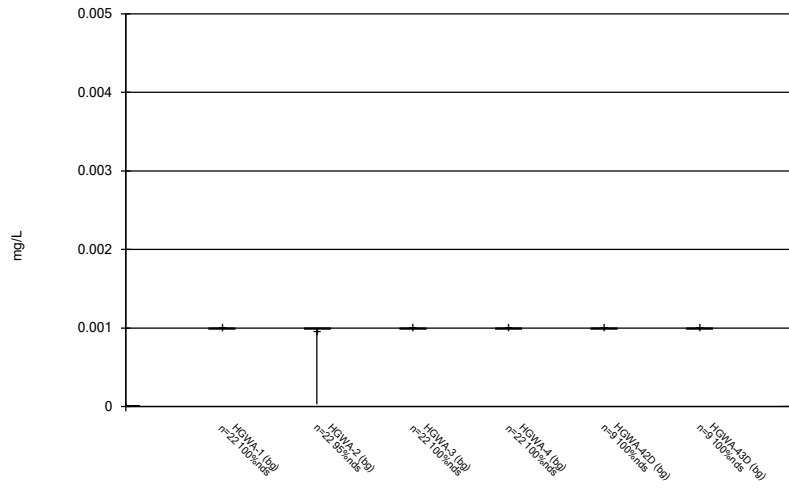
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



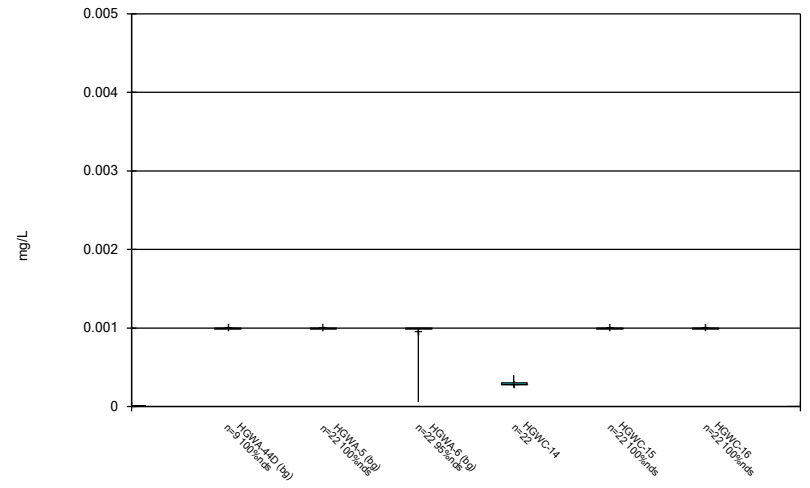
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



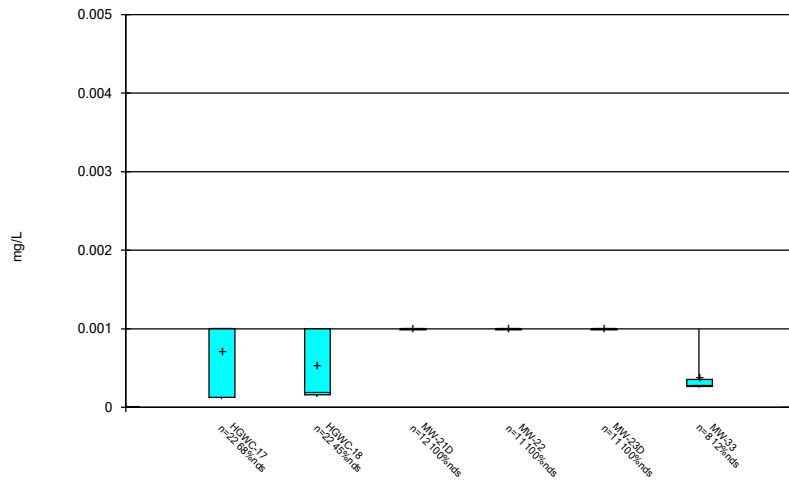
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Box & Whiskers Plot



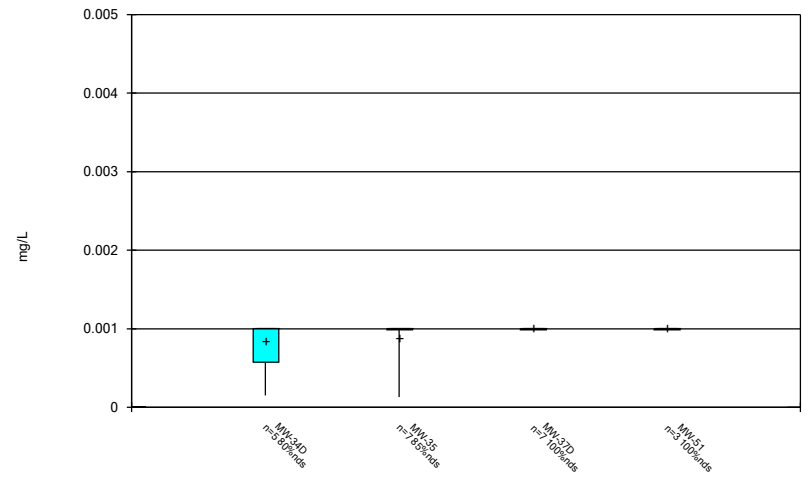
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Box & Whiskers Plot



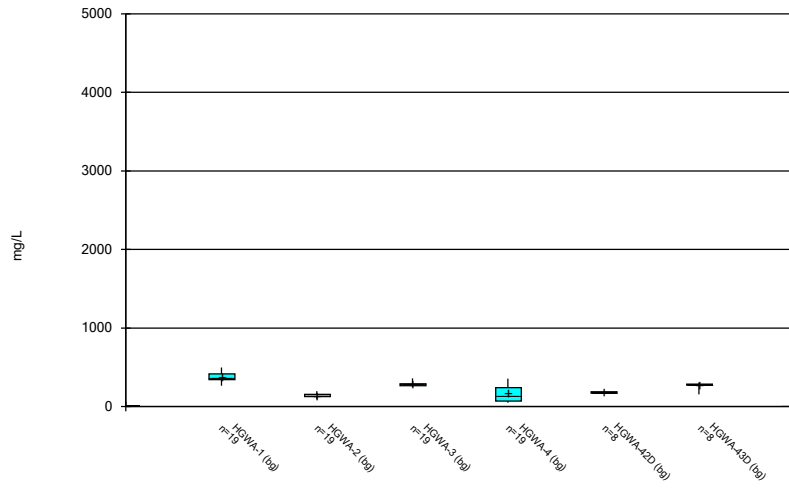
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Box & Whiskers Plot



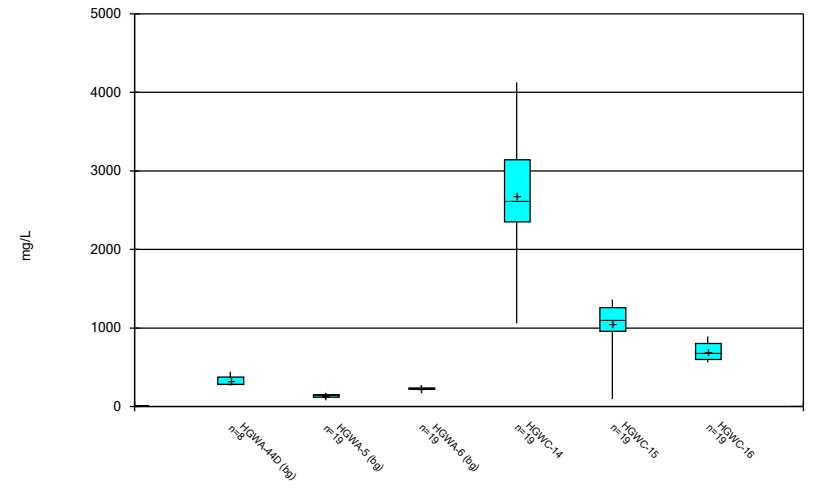
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



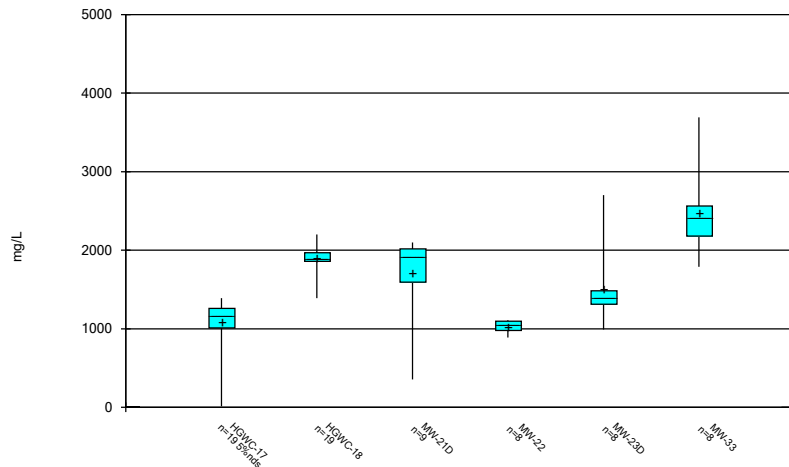
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Box & Whiskers Plot



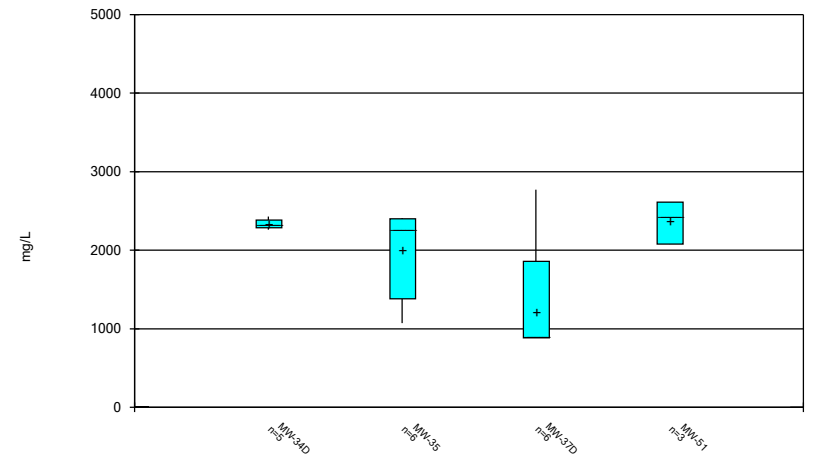
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Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/31/2022 2:08 PM View: Descriptive Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/31/2022 2:08 PM View: Descriptive Plant Hammond Client: Southern Company Data: Hammond AP-2

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/2/2022, 12:57 PM

No values were flagged.

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/21/2022, 8:14 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)	HGWC-14	0.44	n/a	8/11/2022	8.8	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	8/11/2022	2.1	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	8/10/2022	2.2	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	8/10/2022	6.9	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	8/10/2022	8.4	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	145.3	n/a	8/11/2022	519	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-15	145.3	n/a	8/11/2022	210	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-16	145.3	n/a	8/10/2022	207	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-17	145.3	n/a	8/10/2022	316	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-18	145.3	n/a	8/10/2022	433	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Chloride (mg/L)	HGWC-14	44.8	n/a	8/11/2022	147	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-15	44.8	n/a	8/11/2022	89.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-16	44.8	n/a	8/10/2022	98.3	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-17	44.8	n/a	8/10/2022	148	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-18	44.8	n/a	8/10/2022	95.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-18	8.25	4.57	8/10/2022	4.41	Yes	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-14	86.9	n/a	8/11/2022	1200	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-15	86.9	n/a	8/11/2022	365	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-16	86.9	n/a	8/10/2022	206	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-17	86.9	n/a	8/10/2022	423	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-18	86.9	n/a	8/10/2022	946	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	8/11/2022	1060	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	8/11/2022	940	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	8/10/2022	894	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	8/10/2022	1390	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	8/10/2022	1890	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	

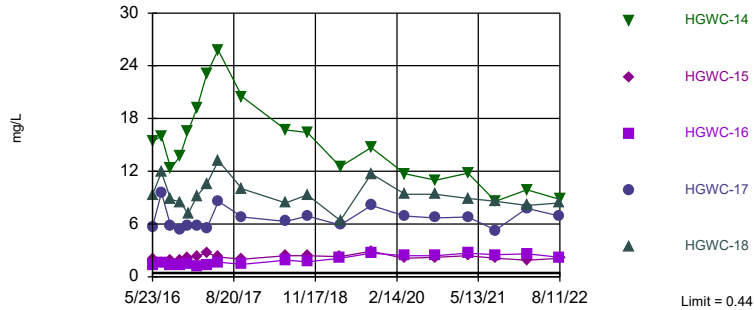
Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/21/2022, 8:14 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)	HGWC-14	0.44	n/a	8/11/2022	8.8	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	8/11/2022	2.1	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	8/10/2022	2.2	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	8/10/2022	6.9	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	8/10/2022	8.4	Yes	138	n/a	n/a	6.522	n/a	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	145.3	n/a	8/11/2022	519	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-15	145.3	n/a	8/11/2022	210	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-16	145.3	n/a	8/10/2022	207	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-17	145.3	n/a	8/10/2022	316	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Calcium (mg/L)	HGWC-18	145.3	n/a	8/10/2022	433	Yes	138	3.79	0.6636	0	None	ln(x)	0.001504	Param Inter 1 of 2	
Chloride (mg/L)	HGWC-14	44.8	n/a	8/11/2022	147	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-15	44.8	n/a	8/11/2022	89.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-16	44.8	n/a	8/10/2022	98.3	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-17	44.8	n/a	8/10/2022	148	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Chloride (mg/L)	HGWC-18	44.8	n/a	8/10/2022	95.2	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-14	8.25	4.57	8/11/2022	4.93	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-15	8.25	4.57	8/11/2022	6.29	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-16	8.25	4.57	8/10/2022	7.09	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-17	8.25	4.57	8/10/2022	6.29	No	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Field pH (s.u.)	HGWC-18	8.25	4.57	8/10/2022	4.41	Yes	165	n/a	n/a	0	n/a	n/a	0.0001452	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-14	0.96	n/a	8/11/2022	0.085J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-15	0.96	n/a	8/11/2022	0.097J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-16	0.96	n/a	8/10/2022	0.054J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-17	0.96	n/a	8/10/2022	0.086J	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	HGWC-18	0.96	n/a	8/10/2022	0.3	No	165	n/a	n/a	32.73	n/a	n/a	0.00007258	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-14	86.9	n/a	8/11/2022	1200	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-15	86.9	n/a	8/11/2022	365	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-16	86.9	n/a	8/10/2022	206	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-17	86.9	n/a	8/10/2022	423	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	HGWC-18	86.9	n/a	8/10/2022	946	Yes	138	n/a	n/a	2.899	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	8/11/2022	1060	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	8/11/2022	940	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	8/10/2022	894	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	8/10/2022	1390	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	8/10/2022	1890	Yes	138	n/a	n/a	0	n/a	n/a	0.0001032	NP Inter (normality) 1 of 2	

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit Interwell Non-parametric

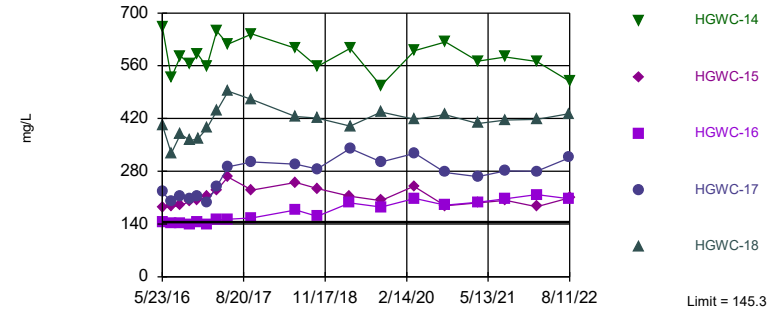


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 138 background values. 6.522% NDs. Annual per-constituent alpha = 0.001032. Individual comparison alpha = 0.0001032 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 10/21/2022 8:07 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit Interwell Parametric

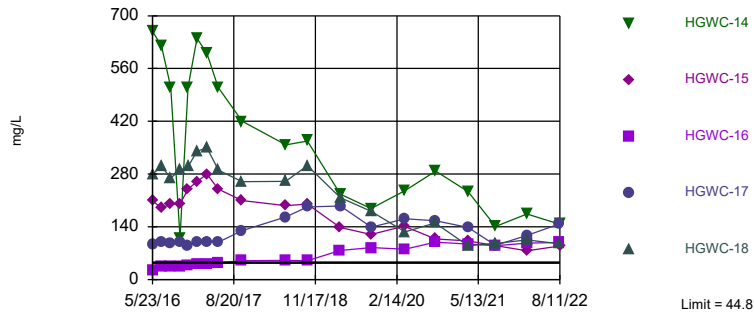


Background Data Summary (based on natural log transformation): Mean=3.79, Std. Dev.=0.6636, n=138. Normality test: Chi Squared @alpha = 0.01, calculated = 14.03, critical = 14.07. Kappa = 1.791 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001504. Comparing 5 points to limit.

Constituent: Calcium Analysis Run 10/21/2022 8:07 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit Interwell Non-parametric

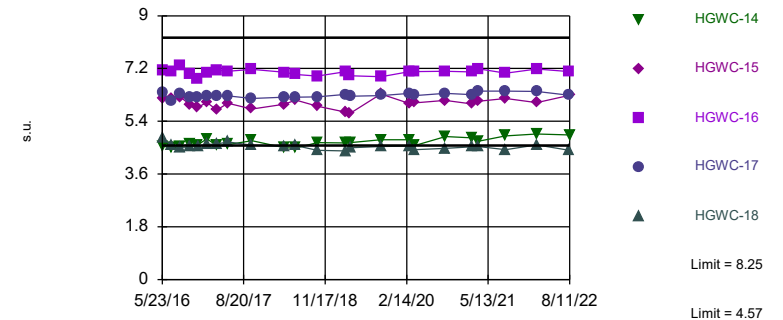


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 138 background values. Annual per-constituent alpha = 0.001032. Individual comparison alpha = 0.0001032 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 10/21/2022 8:07 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limits: HGWC-18

Prediction Limit Interwell Non-parametric



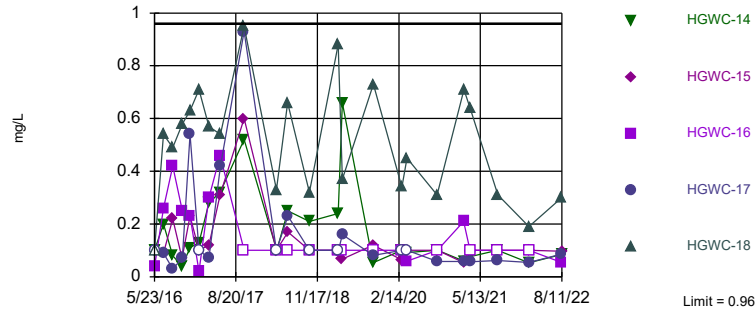
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 165 background values. Annual per-constituent alpha = 0.001451. Individual comparison alpha = 0.0001452 (1 of 2). Comparing 5 points to limit.

Constituent: Field pH Analysis Run 10/21/2022 8:07 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Santas™ v.9.6.35g . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



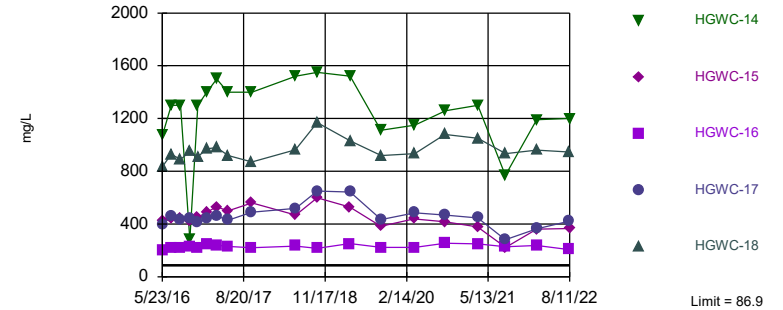
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 165 background values. 32.73% NDs. Annual per-constituent alpha = 0.0007255. Individual comparison alpha = 0.00007258 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 10/21/2022 8:07 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Santas™ v.9.6.35g . UG

Exceeds Limit: HGWC-14, HGWC-15,
HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric



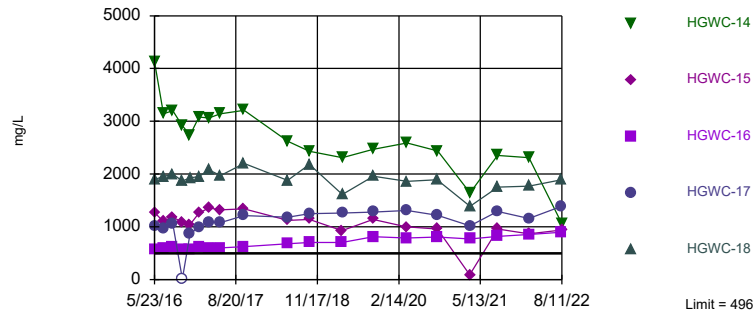
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 138 background values. 2.899% NDs. Annual per-constituent alpha = 0.001032. Individual comparison alpha = 0.0001032 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 10/21/2022 8:08 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Santas™ v.9.6.35g . UG
Hollow symbols indicate censored values.

Exceeds Limit: HGWC-14, HGWC-15,
HGWC-16, HGWC-17, HGWC-18

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 138 background values. Annual per-constituent alpha = 0.001032. Individual comparison alpha = 0.0001032 (1 of 2). Comparing 5 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/21/2022 8:08 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-5 (bg)	HGWA-4 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWA-6 (bg)	HGWC-16	HGWC-15	HGWC-14
3/10/2021	0.015 (J)		0.012 (J)						
3/11/2021		0.0075 (J)		0.015 (J)	0.056	0.018 (J)			
3/16/2021								2.4	
3/17/2021							2.7		11.8
3/18/2021									
8/11/2021	0.02 (J)								
8/12/2021		0.0092 (J)	0.014 (J)	<0.04	0.044	0.014 (J)			
8/13/2021									
8/18/2021									8.6
8/19/2021							2.5	2.1	
2/1/2022	0.016 (J)			0.011 (J)	0.056				
2/7/2022		<0.04	0.017 (J)			0.019 (J)			
2/8/2022							2.6	1.9	
2/9/2022									9.9
8/2/2022	0.012 (J)		0.02 (J)	<0.04	0.047				
8/9/2022									
8/10/2022		0.011 (J)				0.015 (J)	2.2		
8/11/2022								2.1	8.8

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	5.7				
5/24/2016		9.33			
7/11/2016					
7/12/2016	9.58	11.9			
8/30/2016					
9/1/2016	5.76	8.8			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	5.38	8.5			
12/6/2016					
12/7/2016	5.74				
12/8/2016		7.15			
1/24/2017					
1/26/2017	5.78	9.17			
3/21/2017					
3/22/2017	5.52				
3/23/2017		10.6			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	8.58	13.2			
10/3/2017					
10/4/2017	6.8	10			
6/4/2018					
6/5/2018		8.4			
6/6/2018	6.3				
10/1/2018					
10/2/2018					
10/3/2018	6.9	9.3			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	5.9	6.4			
9/23/2019					
9/24/2019					
9/25/2019	8.1	11.7			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	6.9	9.4			
9/15/2020		9.4			
9/16/2020	6.7		0.23	0.061 (J)	
9/17/2020					0.098 (J)
9/18/2020					
11/10/2020			0.29	0.057 (J)	
11/11/2020					0.058 (J)
12/15/2020			0.31	0.052 (J)	0.043 (J)
1/19/2021			0.4	0.049 (J)	
1/20/2021					0.045 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			0.39		0.048
3/11/2021				0.06	
3/16/2021					
3/17/2021					
3/18/2021	6.8	8.9			
8/11/2021				0.042	
8/12/2021					0.044
8/13/2021			0.31		
8/18/2021	5.3				
8/19/2021		8.6			
2/1/2022			0.44	0.05	
2/7/2022					0.047
2/8/2022	7.8	8.1			
2/9/2022					
8/2/2022			0.31	0.043	
8/9/2022					0.055
8/10/2022	6.9	8.4			
8/11/2022					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	225				
5/24/2016		403			
7/11/2016					
7/12/2016	199	328			
8/30/2016					
9/1/2016	213	379			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	206	362			
12/6/2016					
12/7/2016	212				
12/8/2016		366			
1/24/2017					
1/26/2017	198	394			
3/21/2017					
3/22/2017	239				
3/23/2017		440			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	292	492			
10/3/2017					
10/4/2017	305	470			
6/4/2018					
6/5/2018		425			
6/6/2018	299				
10/1/2018					
10/2/2018					
10/3/2018	286	421			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	340	400			
9/23/2019					
9/24/2019					
9/25/2019	305	437			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	328	418			
9/15/2020		430			
9/16/2020	277		30	56	
9/17/2020					43.8
9/18/2020					
11/10/2020			33.6	63.3	
11/11/2020					44.4
12/15/2020			28.7	62.6	47.3
1/19/2021			33	60.1	
1/20/2021					41.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			18.3		43.4
3/11/2021				59.6	
3/16/2021					
3/17/2021					
3/18/2021	266	407			
8/11/2021				61	
8/12/2021					43.6
8/13/2021			28.9		
8/18/2021	281				
8/19/2021		416			
2/1/2022			24.8	55.9	
2/7/2022					48.7
2/8/2022	280	418			
2/9/2022					
8/2/2022			20.9	54.1	
8/9/2022					44.1
8/10/2022	316	433			
8/11/2022					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	94				
5/24/2016		280			
7/11/2016					
7/12/2016	100	300			
8/30/2016					
9/1/2016	95	270			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	98	290			
12/6/2016					
12/7/2016	89				
12/8/2016		300			
1/24/2017					
1/26/2017	99	340			
3/21/2017					
3/22/2017	100				
3/23/2017		350			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	99	290			
10/3/2017					
10/4/2017	130	260			
6/4/2018					
6/5/2018		261			
6/6/2018	166				
10/1/2018					
10/2/2018					
10/3/2018	193	302			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	195	217			
9/23/2019					
9/24/2019					
9/25/2019	139	181			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	161	126			
9/15/2020		150			
9/16/2020	156		7.2	4.1	
9/17/2020					5.8
9/18/2020					
11/10/2020			7.8	4.4	
11/11/2020					3.1
12/15/2020			9.4	4.7	3.2
1/19/2021			9.5	4.1	
1/20/2021					2.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			12.3		3
3/11/2021				4.5	
3/16/2021					
3/17/2021					
3/18/2021	138	90.2			
8/11/2021				3.5	
8/12/2021					2.6
8/13/2021			39.9		
8/18/2021	90.7				
8/19/2021		95.8			
2/1/2022			44.8	4.1	
2/7/2022					3.1
2/8/2022	117	105			
2/9/2022					
8/2/2022			19.8	4.3	
8/9/2022					3.7
8/10/2022	148	95.2			
8/11/2022					

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 10/21/2022 8:14 PM View: All

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-17	HGWC-14	HGWC-15
5/19/2016	7.27	6.51	7.45	5.81	6.62				
5/20/2016						7.58			
5/23/2016							6.4	4.56	6.17
5/24/2016									
7/11/2016	7.06	6.65		5.68	6.54	7.32			
7/12/2016			7.32				6.09	4.49	6.17
8/30/2016	7.28	7.14	7.43	5.63	6.38	7.69			
9/1/2016							6.35	4.54	6.22
10/19/2016	7.02	7.08	7.03	5.46					
10/20/2016					6.52	7.43			
10/24/2016								4.63	5.97
10/25/2016							6.23		
12/6/2016	7.09	7	7.08	5.38					
12/7/2016							6.23	4.6	5.87
12/8/2016					6.5	7.56			
1/24/2017	7.2	6.16	7.39	5.37	6.59	7.52			
1/26/2017							6.24	4.8	6.05
3/21/2017	7.01	6.07	6.83	4.9	6.55	7.4			
3/22/2017							6.25		
3/23/2017								4.57	5.79
5/22/2017	7.11		7.02	5.2					
5/23/2017		6.28			6.5	7.53			
5/24/2017								4.61	6.01
5/25/2017							6.27		
10/3/2017	7.21	6.45	7.47	5.3	6.63	7.51			
10/4/2017							6.18	4.74	5.82
4/2/2018	7.1	6.23		5.4					
4/3/2018			7.38		6.59	7.53	6.22		5.98
4/4/2018								4.5	
6/4/2018	7.06	6.82	7.38	5.27					
6/5/2018					6.44	7.37			
6/6/2018							6.22	4.49	6.12
10/1/2018	7.09	5.73	7.13	5.31					
10/2/2018					6.35	7.36			
10/3/2018							6.23	4.67	5.92
3/11/2019		6.27							
3/12/2019	7.03		7.29	5.42	6.42	7.5			
3/14/2019								4.66	5.71
3/15/2019							6.32		
4/1/2019			7.16						
4/2/2019	6.86	6.66		5.41	6.38	7.46			
4/4/2019									5.66
4/5/2019							6.26	4.67	
9/23/2019	7.02		7.3	5.33					
9/24/2019		6.16			6.4	7.41		4.77	6.33
9/25/2019							6.28		
3/2/2020	7.1	5.63	7.12	5.43	6.8	7.67			
3/3/2020							6.35	4.77	6
3/25/2020	6.95		7.4	5.36		7.39			
3/26/2020		5.77			6.38				6.03
3/30/2020								4.57	
3/31/2020							6.28		

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 10/21/2022 8:14 PM View: All

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-17	HGWC-14	HGWC-15
9/15/2020	7.15	5.75	7.29	5.22	6.33	7.37			
9/16/2020							6.35		
9/17/2020									6.11
9/18/2020								4.88	
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									
2/8/2021	7.11	4.94							
2/9/2021			7.23	5.42	6.35	7.4			
2/10/2021									
2/11/2021							6.31	4.84	
2/12/2021									5.99
3/10/2021	6.95	5.28							
3/11/2021			7.33	5.8	6.48	7.56			
3/16/2021									6.08
3/17/2021								4.72	
3/18/2021							6.43		
8/11/2021	6.98								
8/12/2021		5.26	7.31	5.05	6.46	7.47			
8/13/2021									
8/18/2021							6.43	4.9	
8/19/2021									6.18
2/1/2022	7.19		7.45	5.24					
2/7/2022		5.24			6.51	7.65			
2/8/2022							6.42		6.04
2/9/2022								4.97	
8/2/2022	7.03	4.86	7.02	4.57					
8/9/2022									
8/10/2022					6.22	7.53	6.29		
8/11/2022								4.93	6.29

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	7.15				
5/24/2016		4.83			
7/11/2016					
7/12/2016	7.1	4.58			
8/30/2016					
9/1/2016	7.29	4.51			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	7.03	4.53			
12/6/2016					
12/7/2016	6.85				
12/8/2016		4.56			
1/24/2017					
1/26/2017	7.07	4.61			
3/21/2017					
3/22/2017	7.15				
3/23/2017		4.63			
5/22/2017					
5/23/2017					
5/24/2017	7.11				
5/25/2017		4.69			
10/3/2017					
10/4/2017	7.17	4.58			
4/2/2018					
4/3/2018	7.07	4.54			
4/4/2018					
6/4/2018					
6/5/2018		4.57			
6/6/2018	7				
10/1/2018					
10/2/2018					
10/3/2018	6.94	4.41			
3/11/2019					
3/12/2019					
3/14/2019		4.39			
3/15/2019	7.09				
4/1/2019					
4/2/2019					
4/4/2019	6.95				
4/5/2019		4.5			
9/23/2019					
9/24/2019					
9/25/2019	6.92	4.54			
3/2/2020					
3/3/2020	7.1	4.55			
3/25/2020					
3/26/2020					
3/30/2020	7.09				
3/31/2020		4.43			

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
9/15/2020		4.47			
9/16/2020			7.83	7.52	
9/17/2020	7.11				7.62
9/18/2020					
11/10/2020			7.84	7.27	
11/11/2020					7.68
12/15/2020			7.87	7.39	7.64
1/19/2021			7.86	7.39	
1/20/2021					7.68
2/8/2021					7.64
2/9/2021			7.84	7.44	
2/10/2021	7.08				
2/11/2021		4.53			
2/12/2021					
3/10/2021			7.92		7.7
3/11/2021				7.46	
3/16/2021					
3/17/2021	7.19				
3/18/2021		4.54			
8/11/2021				7.4	
8/12/2021					7.7
8/13/2021			7.77		
8/18/2021					
8/19/2021	7.04	4.43			
2/1/2022			8.25	7.52	
2/7/2022					7.85
2/8/2022	7.18	4.59			
2/9/2022					
8/2/2022			7.9	7.15	
8/9/2022					7.58
8/10/2022	7.09	4.41			
8/11/2022					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 8:14 PM View: All

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-17	HGWC-14	HGWC-15
5/19/2016	0.105 (J)	0.036 (J)	0.0513 (J)	0.0303 (J)	0.08 (J)				
5/20/2016						0.065 (J)			
5/23/2016							<0.1	<0.1	<0.1
5/24/2016									
7/11/2016	0.16 (J)	0.09 (J)		0.05 (J)	0.09 (J)	0.13 (J)			
7/12/2016			0.12 (J)				0.09 (J)	0.2 (J)	0.09 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)	0.06 (J)	0.08 (J)	0.07 (J)			
9/1/2016							0.03 (J)	0.08 (J)	0.22 (J)
10/19/2016	0.1 (J)	0.07 (J)	0.1 (J)	0.04 (J)					
10/20/2016					0.1 (J)	0.06 (J)			
10/24/2016								0.04 (J)	0.07 (J)
10/25/2016							0.07 (J)		
12/6/2016	0.11 (J)	0.07 (J)	0.21 (J)	0.36					
12/7/2016							0.54	0.11 (J)	0.23 (J)
12/8/2016					0.08 (J)	0.06 (J)			
1/24/2017	0.09 (J)	<0.1	0.06 (J)	<0.1	0.09 (J)	0.02 (J)			
1/26/2017							<0.1	0.13 (J)	<0.1
3/21/2017	0.13 (J)	<0.1	0.005 (J)	<0.1	0.04 (J)	0.08 (J)			
3/22/2017							0.07 (J)		
3/23/2017								0.28 (J)	0.12 (J)
5/22/2017	0.12 (J)		0.05 (J)	<0.1					
5/23/2017		0.01 (J)			0.04 (J)	0.006 (J)			
5/24/2017								0.32	0.31
5/25/2017							0.42		
10/3/2017	0.13 (J)	<0.1	0.13 (J)	<0.1	0.06 (J)	<0.1			
10/4/2017							0.93	0.52	0.6
4/2/2018	<0.1	<0.1		<0.1					
4/3/2018			<0.1		<0.1	<0.1	<0.1		<0.1
4/4/2018								<0.1	
6/4/2018	0.074 (J)	0.097 (J)	<0.1	<0.1					
6/5/2018					0.083 (J)	0.055 (J)			
6/6/2018							0.23 (J)	0.25 (J)	0.17 (J)
10/1/2018	<0.1	<0.1	<0.1	<0.1					
10/2/2018					<0.1	0.076 (J)			
10/3/2018							<0.1	0.21 (J)	<0.1
3/11/2019		0.035 (J)							
3/12/2019	0.29 (J)		0.072 (J)	0.038 (J)	0.079 (J)	0.061 (J)			
3/14/2019								0.24 (J)	<0.1
3/15/2019							<0.1		
4/1/2019			0.029 (J)						
4/2/2019	0.1 (J)	<0.1		0.071 (J)	0.12 (J)	<0.1			
4/4/2019									0.066 (J)
4/5/2019							0.16 (J)	0.66	
9/23/2019	0.078 (J)		<0.1	<0.1					
9/24/2019		<0.1			0.058 (J)	<0.1		0.053 (J)	0.12 (J)
9/25/2019							0.081 (J)		
3/2/2020	0.076 (J)	<0.1	<0.1	<0.1	0.053 (J)	<0.1			
3/3/2020							<0.1	<0.1	0.064 (J)
3/25/2020	0.098 (J)		<0.1	<0.1		<0.1			<0.1
3/26/2020		<0.1			0.066 (J)				<0.1
3/30/2020								0.092 (J)	
3/31/2020							<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 8:14 PM View: All

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-17	HGWC-14	HGWC-15
9/15/2020	0.082 (J)	<0.1	<0.1	<0.1	0.061 (J)	<0.1			
9/16/2020							0.058 (J)		
9/17/2020									<0.1
9/18/2020								<0.1	
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									
2/8/2021	0.078 (J)	<0.1							
2/9/2021			0.074 (J)	<0.1	0.053 (J)	<0.1			
2/10/2021									
2/11/2021							0.058 (J)	0.059 (J)	
2/12/2021									0.053 (J)
3/10/2021	0.079 (J)	<0.1							
3/11/2021			<0.1	0.1	0.06 (J)	0.17			
3/16/2021									<0.1
3/17/2021								0.076 (J)	
3/18/2021							0.057 (J)		
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1	<0.1	<0.1	<0.1			
8/13/2021									
8/18/2021							0.062 (J)	<0.1	
8/19/2021									<0.1
2/1/2022	0.064 (J)		<0.1	<0.1					
2/7/2022		<0.1			<0.1	<0.1			
2/8/2022							0.055 (J)		<0.1
2/9/2022								0.053 (J)	
8/2/2022	0.09 (J)	0.076 (J)	0.067 (J)	0.053 (J)					
8/9/2022									
8/10/2022					0.078 (J)	0.067 (J)	0.086 (J)		
8/11/2022								0.085 (J)	0.097 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	0.038 (J)				
5/24/2016		<0.1			
7/11/2016					
7/12/2016	0.26 (J)	0.54			
8/30/2016					
9/1/2016	0.42	0.49			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	0.25 (J)	0.58			
12/6/2016					
12/7/2016	0.23 (J)				
12/8/2016		0.63			
1/24/2017					
1/26/2017	0.02 (J)	0.71			
3/21/2017					
3/22/2017	0.3				
3/23/2017		0.57			
5/22/2017					
5/23/2017					
5/24/2017	0.46				
5/25/2017		0.54			
10/3/2017					
10/4/2017	<0.1	0.95			
4/2/2018					
4/3/2018	<0.1	0.33			
4/4/2018					
6/4/2018					
6/5/2018		0.66			
6/6/2018	<0.1				
10/1/2018					
10/2/2018					
10/3/2018	<0.1	0.32			
3/11/2019					
3/12/2019					
3/14/2019		0.88			
3/15/2019	<0.1				
4/1/2019					
4/2/2019					
4/4/2019	<0.1				
4/5/2019		0.37			
9/23/2019					
9/24/2019					
9/25/2019	<0.1	0.73			
3/2/2020					
3/3/2020	<0.1	0.34			
3/25/2020					
3/26/2020					
3/30/2020	0.059 (J)				
3/31/2020		0.45			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-16	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
9/15/2020		0.31			
9/16/2020			0.52	0.22	
9/17/2020	<0.1				0.2
9/18/2020					
11/10/2020			0.59	0.19	
11/11/2020					0.1
12/15/2020			0.67	0.21	0.11
1/19/2021			0.74	0.16	
1/20/2021					0.082 (J)
2/8/2021					0.096 (J)
2/9/2021			0.44	0.19	
2/10/2021	0.21				
2/11/2021		0.71			
2/12/2021					
3/10/2021			0.65		0.11
3/11/2021				0.2	
3/16/2021					
3/17/2021	<0.1				
3/18/2021		0.64			
8/11/2021				0.15	
8/12/2021					0.079 (J)
8/13/2021			0.87		
8/18/2021					
8/19/2021	<0.1	0.31			
2/1/2022			0.96	0.19	
2/7/2022					0.085 (J)
2/8/2022	<0.1	0.19			
2/9/2022					
8/2/2022			0.8	0.22	
8/9/2022					0.12
8/10/2022	0.054 (J)	0.3			
8/11/2022					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	395				
5/24/2016		834			
7/11/2016					
7/12/2016	460	930			
8/30/2016					
9/1/2016	430	890			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	440	950			
12/6/2016					
12/7/2016	410				
12/8/2016		910			
1/24/2017					
1/26/2017	440	970			
3/21/2017					
3/22/2017	460				
3/23/2017		980			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	430	920			
10/3/2017					
10/4/2017	490	870			
6/4/2018					
6/5/2018		962			
6/6/2018	520				
10/1/2018					
10/2/2018					
10/3/2018	651	1170			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	642	1030			
9/23/2019					
9/24/2019					
9/25/2019	434	920			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	484	934			
9/15/2020		1080			
9/16/2020	467		6.9	43	
9/17/2020					10.9
9/18/2020					
11/10/2020			6.3	39	
11/11/2020					9.4
12/15/2020			6.7	38.8	10.9
1/19/2021			7.4	37.3	
1/20/2021					9.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			<1		10.8
3/11/2021				38.6	
3/16/2021					
3/17/2021					
3/18/2021	447	1050			
8/11/2021				30.5	
8/12/2021					7.8
8/13/2021			56.1		
8/18/2021	280				
8/19/2021		934			
2/1/2022			56.3	37.5	
2/7/2022					10.4
2/8/2022	364	960			
2/9/2022					
8/2/2022			13.2	37	
8/9/2022					11.2
8/10/2022	423	946			
8/11/2022					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/21/2022 8:14 PM View: All

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	1010				
5/24/2016		1900			
7/11/2016					
7/12/2016	976	1950			
8/30/2016					
9/1/2016	1060	2000			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	<25	1870			
12/6/2016					
12/7/2016	866				
12/8/2016		1930			
1/24/2017					
1/26/2017	1000	1950			
3/21/2017					
3/22/2017	1080				
3/23/2017		2080			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	1080	1970			
10/3/2017					
10/4/2017	1210	2200			
6/4/2018					
6/5/2018		1880			
6/6/2018	1180				
10/1/2018					
10/2/2018					
10/3/2018	1250	2180			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	1260	1610			
9/23/2019					
9/24/2019					
9/25/2019	1280	1960			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	1310	1860			
9/15/2020		1890			
9/16/2020	1220		270	272	
9/17/2020					188
9/18/2020					
11/10/2020			287	307	
11/11/2020					175
12/15/2020			295	289	193
1/19/2021			278	270	
1/20/2021					158

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/21/2022 8:14 PM View: All
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			289		163
3/11/2021				279	
3/16/2021					
3/17/2021					
3/18/2021	1020	1390			
8/11/2021				277	
8/12/2021					179
8/13/2021			436		
8/18/2021	1290				
8/19/2021		1750			
2/1/2022			444	156	
2/7/2022					190
2/8/2022	1160	1770			
2/9/2022					
8/2/2022			311	278	
8/9/2022					182
8/10/2022	1390	1890			
8/11/2022					

FIGURE E.

Appendix III Trend Test - Prediction Limit Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:49 AM

<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>
Boron (mg/L)	HGWA-2 (bg)	0.002545	111	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.225	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2371	111	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.364	91	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.413	-98	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.73	133	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.3871	-130	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	11.55	24	21	Yes	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.0842	-75	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-78.91	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.58	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.69	153	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-36.35	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.3006	-166	-98	Yes	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.619	101	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-29.05	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-235.4	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-57.74	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.76	135	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	61.52	104	74	Yes	19	5.263	n/a	n/a	0.01	NP

Appendix III Trend Test - Prediction Limit Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:49 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0004986	-25	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002545	111	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.0002999	14	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-4 (bg)	-0.0004376	-18	-74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-42D (bg)	-0.001755	-4	-21	No	8	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.01038	-16	-21	No	8	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.07193	13	21	No	8	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-5 (bg)	0.0002744	22	74	No	19	15.79	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-6 (bg)	-0.0003871	-31	-74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.225	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-15	0.02931	24	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2371	111	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-17	0.193	39	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-18	-0.2033	-35	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.19	56	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.7505	51	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.364	91	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-9.413	-98	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-42D (bg)	0.4826	4	21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.927	-14	-21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-5.744	-14	-21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-5 (bg)	0.04382	2	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-6 (bg)	0.4391	40	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-14	-7.037	-31	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-15	1.872	23	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.73	133	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-17	15.94	72	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-18	7.449	48	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6168	52	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.104	-27	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1165	-71	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.3871	-130	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-42D (bg)	-0.3323	-5	-21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	-0.02897	-3	-21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	11.55	24	21	Yes	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-5 (bg)	-0.06895	-48	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.0842	-75	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-78.91	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.58	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.69	153	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-17	8.907	63	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-36.35	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-1 (bg)	-0.02032	-58	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-2 (bg)	-0.05778	-74	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-3 (bg)	-0.00625	-11	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-4 (bg)	-0.3006	-166	-98	Yes	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-42D (bg)	0.07168	11	25	No	9	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-43D (bg)	0.007636	2	25	No	9	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-44D (bg)	0.0535	13	25	No	9	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-5 (bg)	-0.03638	-87	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWA-6 (bg)	-0.005287	-11	-98	No	23	0	n/a	n/a	0.01	NP
Field pH (s.u.)	HGWC-18	-0.02234	-86	-98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.506	26	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.619	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	0.648	45	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-4 (bg)	-0.3516	-53	-74	No	19	15.79	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-42D (bg)	0.07923	1	21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-1.657	-20	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	4.085	12	21	No	8	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-5 (bg)	-0.4294	-42	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-6 (bg)	-0.2041	-34	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-14	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-15	-13.02	-48	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-16	1.567	36	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-17	1.305	4	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-18	15.66	55	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.454	5	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	1.249	6	74	No	19	0	n/a	n/a	0.01	NP

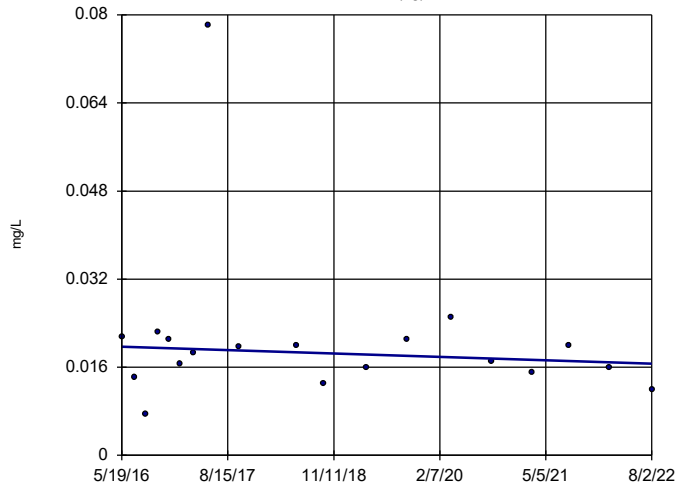
Appendix III Trend Test - Prediction Limit Exceedances - All Results ^{Page 2}

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:49 AM

<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>
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	0.361	8	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-29.05	-108	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-42D (bg)	2.231	2	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-11.77	-8	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	59.96	18	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-5 (bg)	-3.156	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-6 (bg)	-1.315	-31	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-235.4	-117	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-57.74	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	51.76	135	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	61.52	104	74	Yes	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-18	-24.33	-47	-74	No	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

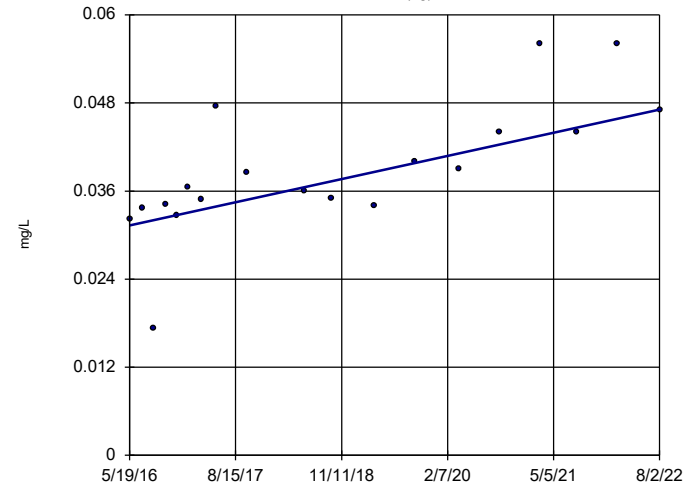
HGWA-1 (bg)



Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

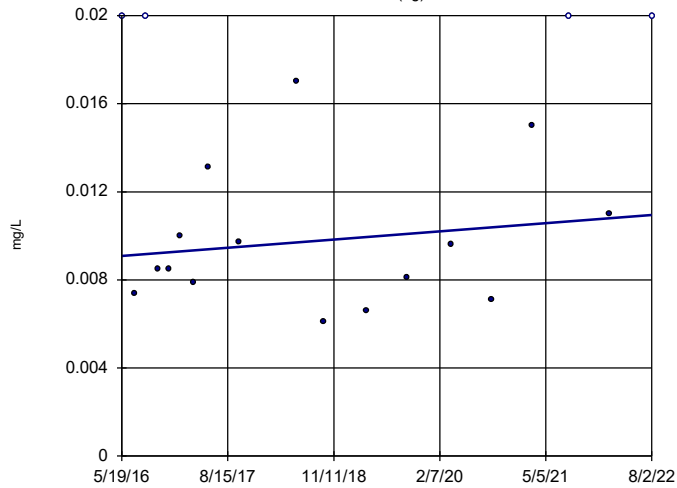
HGWA-2 (bg)



Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

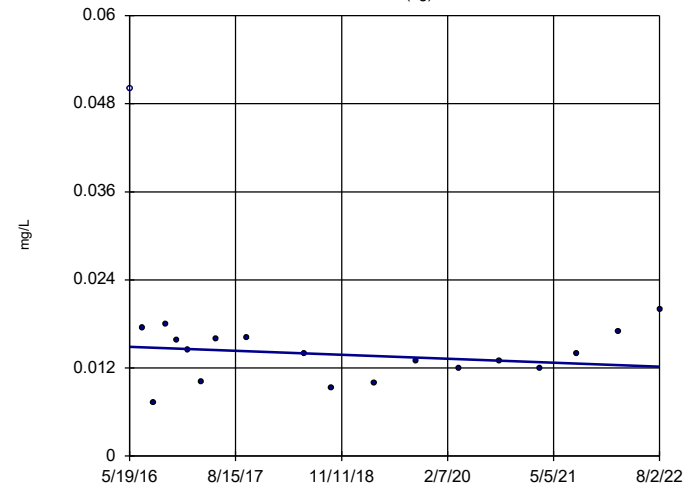
HGWA-3 (bg)



Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

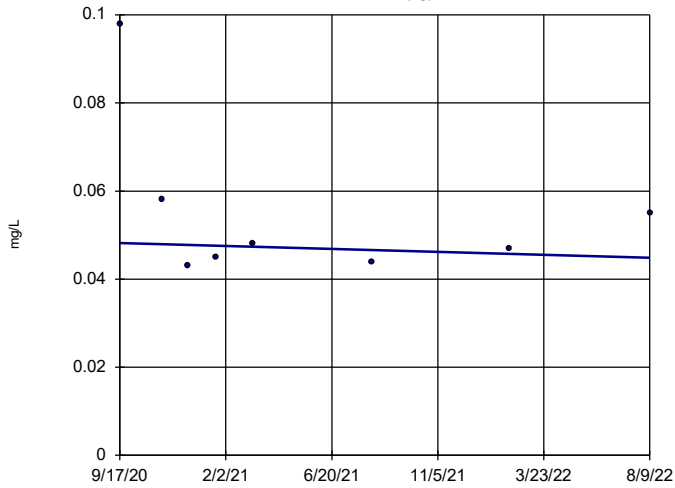
HGWA-4 (bg)



Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

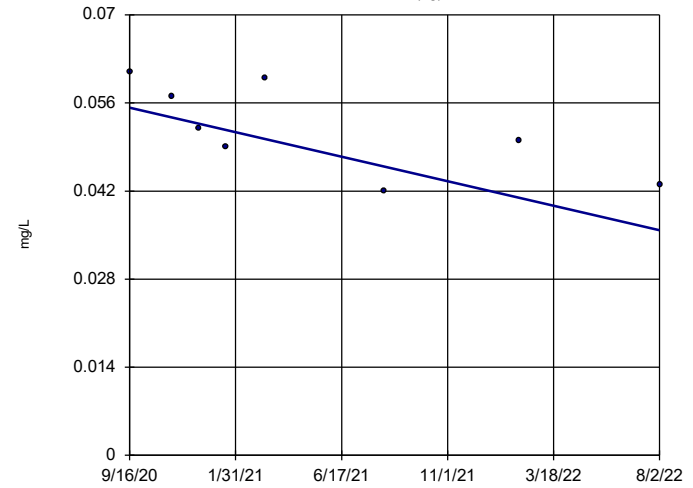


n = 8
 Slope = -0.001755 units per year.
 Mann-Kendall statistic = -4
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

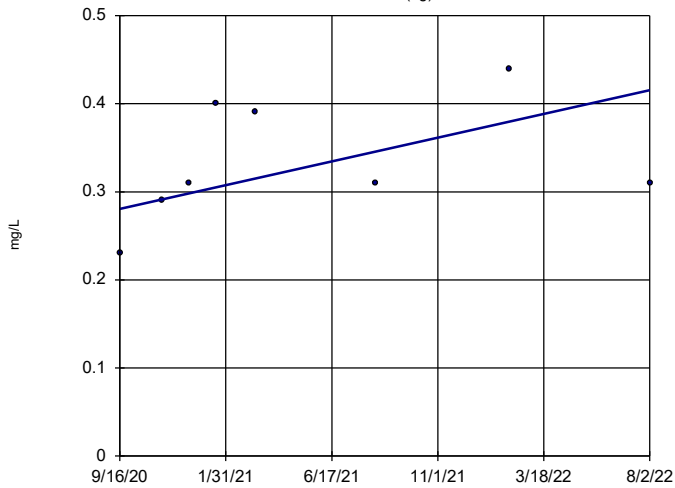


n = 8
 Slope = -0.01038 units per year.
 Mann-Kendall statistic = -16
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

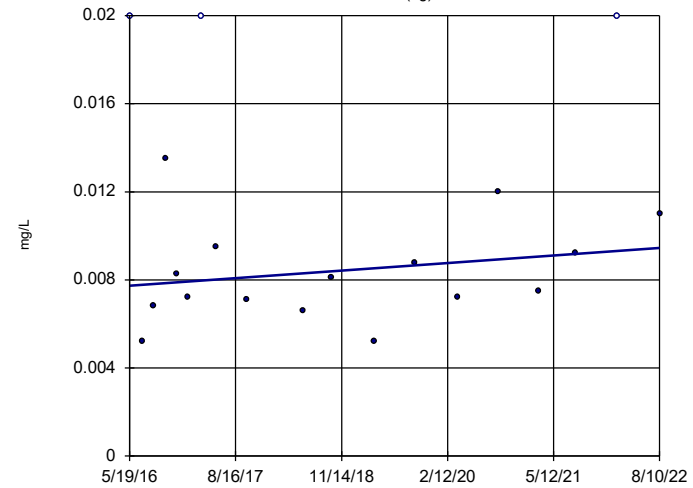


n = 8
 Slope = 0.07193 units per year.
 Mann-Kendall statistic = 13
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

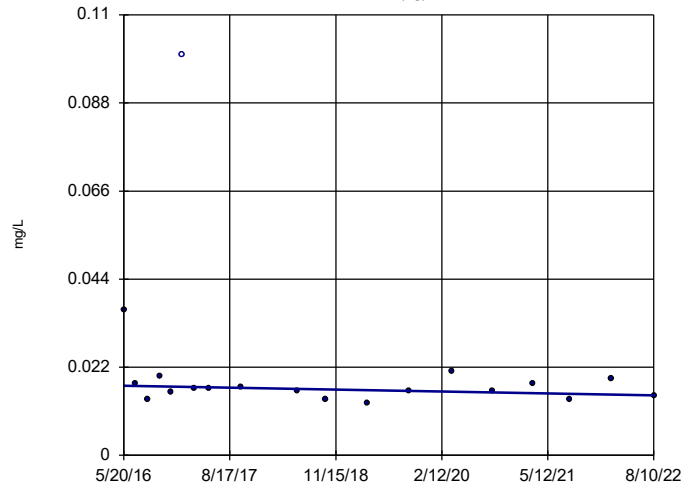
Sen's Slope Estimator

HGWA-5 (bg)



Sen's Slope Estimator

HGWA-6 (bg)

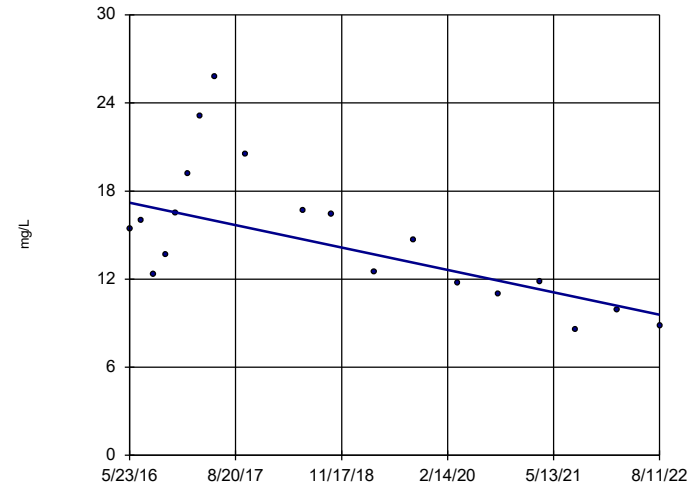


n = 19
Slope = -0.0003871
units per year.
Mann-Kendall
statistic = -31
critical = -74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

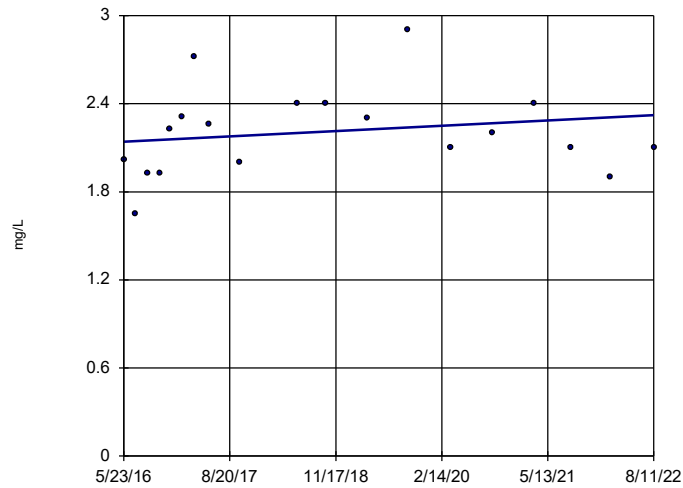


n = 19
Slope = -1.225
units per year.
Mann-Kendall
statistic = -77
critical = -74
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

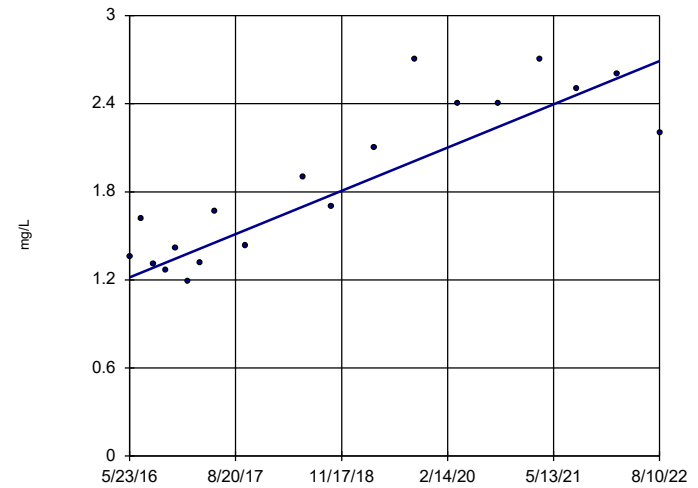


n = 19
Slope = 0.02931
units per year.
Mann-Kendall
statistic = 24
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

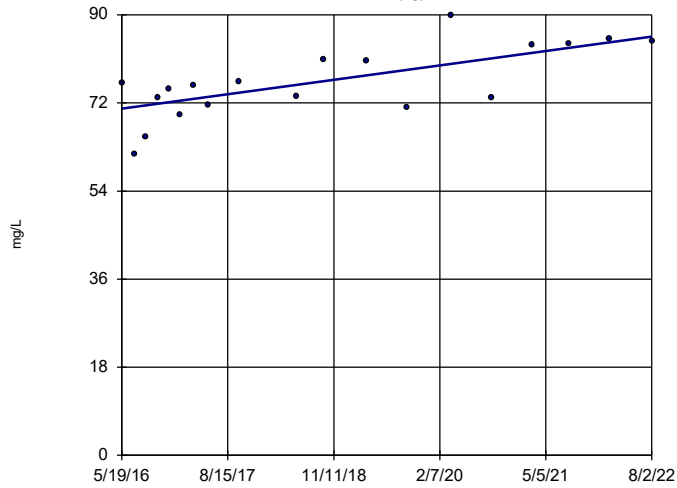


n = 19
Slope = 0.2371
units per year.
Mann-Kendall
statistic = 111
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

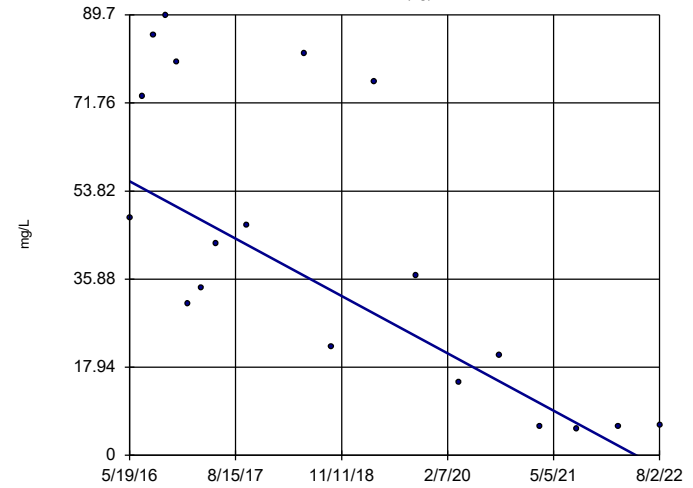


n = 19
 Slope = 2.364
 units per year.
 Mann-Kendall
 statistic = 91
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

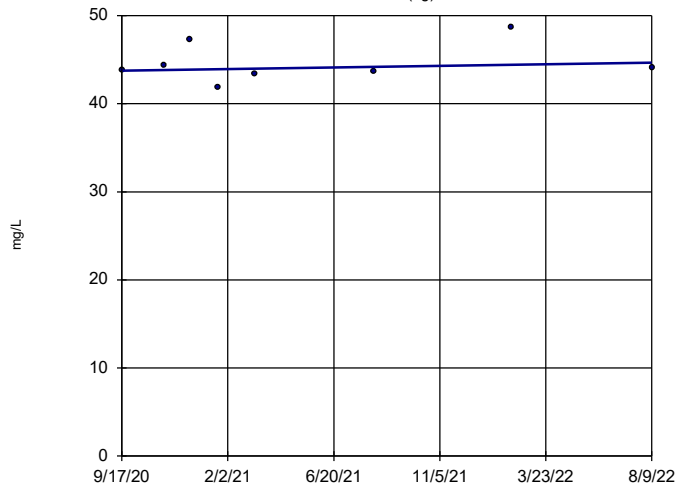


n = 19
 Slope = -9.413
 units per year.
 Mann-Kendall
 statistic = -98
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

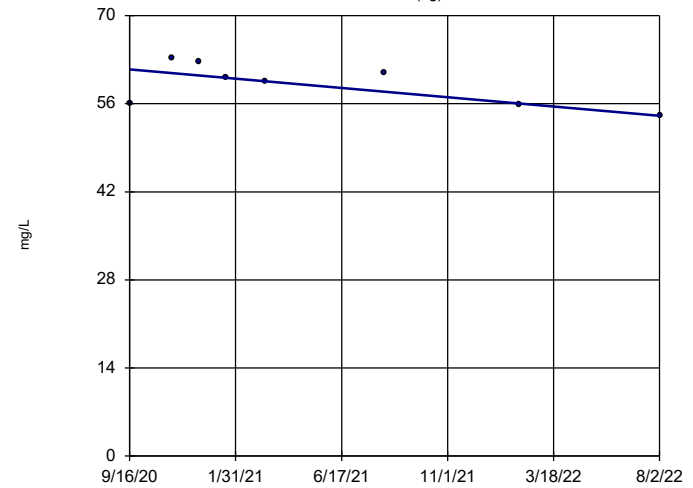


n = 8
 Slope = 0.4826
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

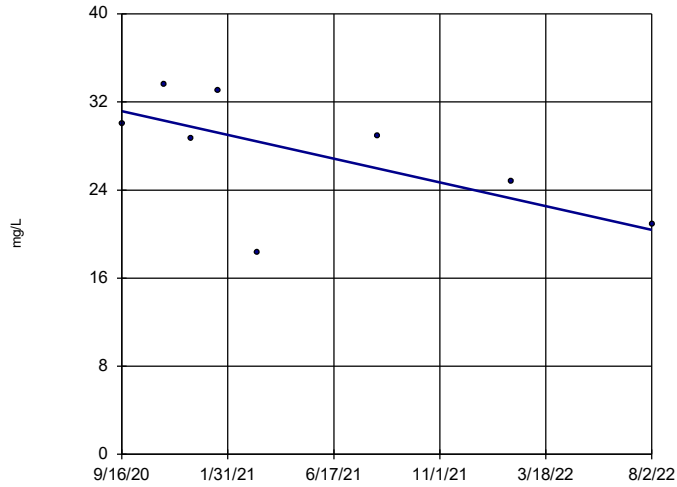


n = 8
 Slope = -3.927
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

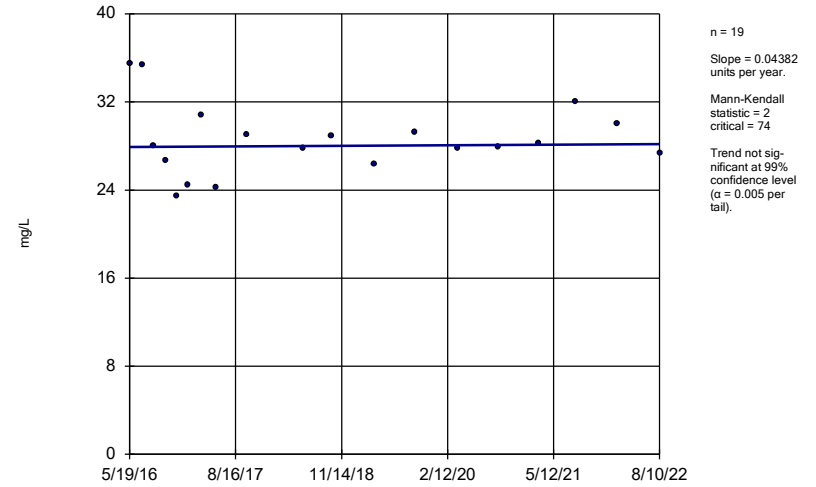
HGWA-44D (bg)



Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

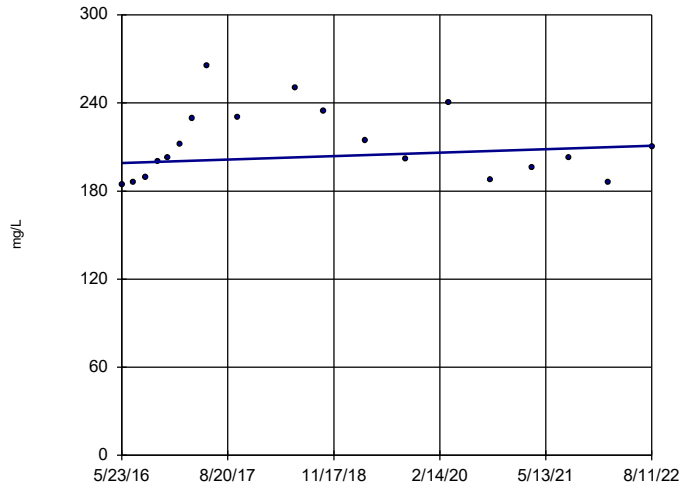
Sen's Slope Estimator

HGWA-5 (bg)



Sen's Slope Estimator

HGWC-15

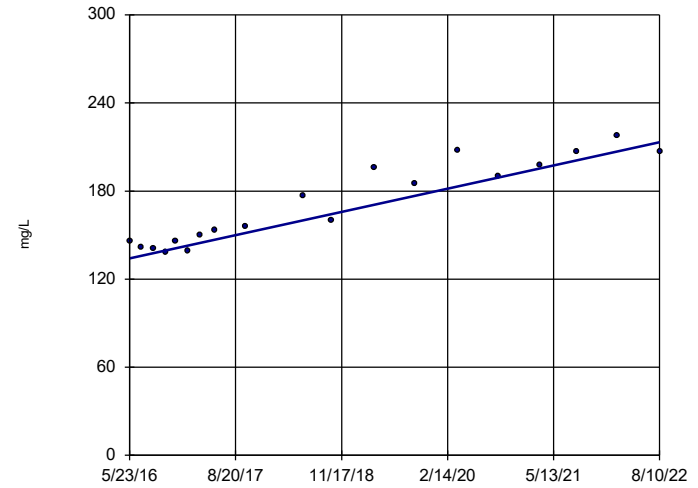


n = 19
 Slope = 1.872
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

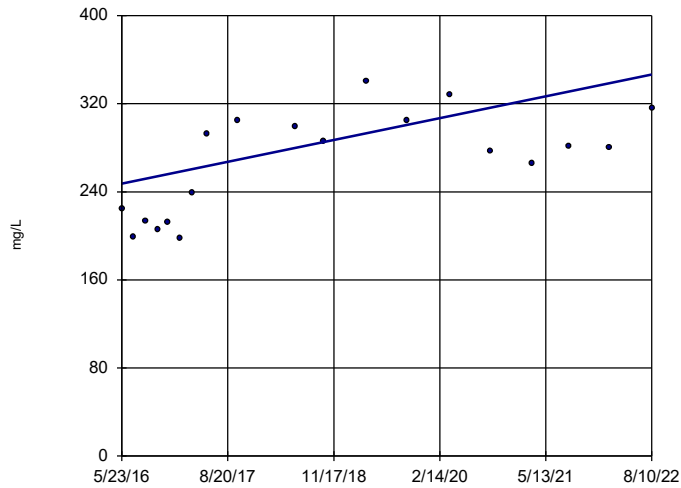


n = 19
 Slope = 12.73
 units per year.
 Mann-Kendall
 statistic = 133
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-17

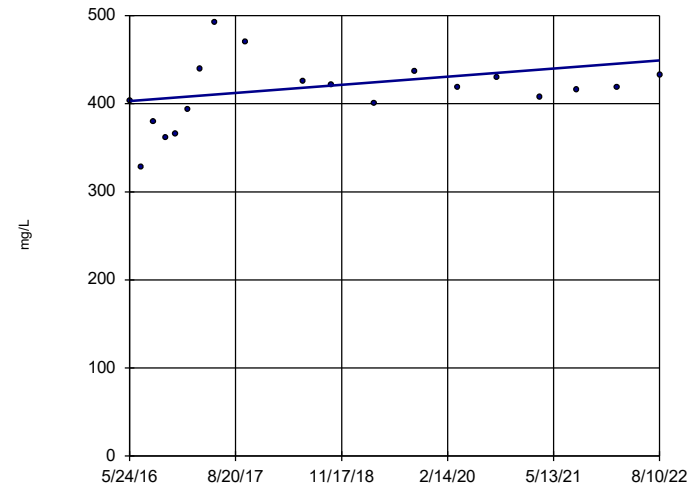


n = 19
 Slope = 15.94
 units per year.
 Mann-Kendall
 statistic = 72
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

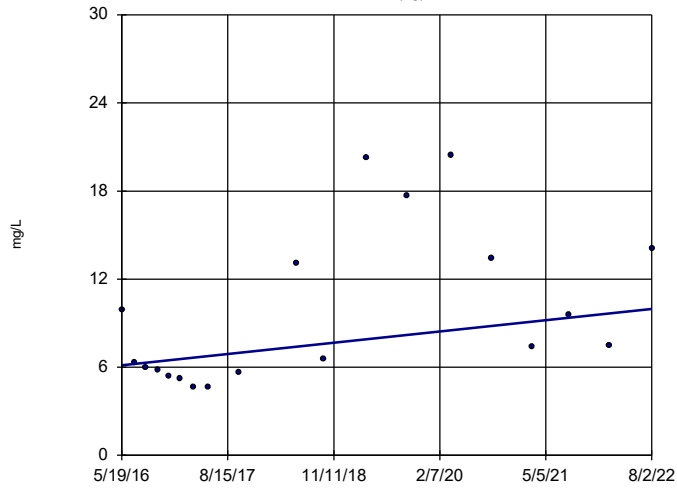


n = 19
 Slope = 7.449
 units per year.
 Mann-Kendall
 statistic = 48
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

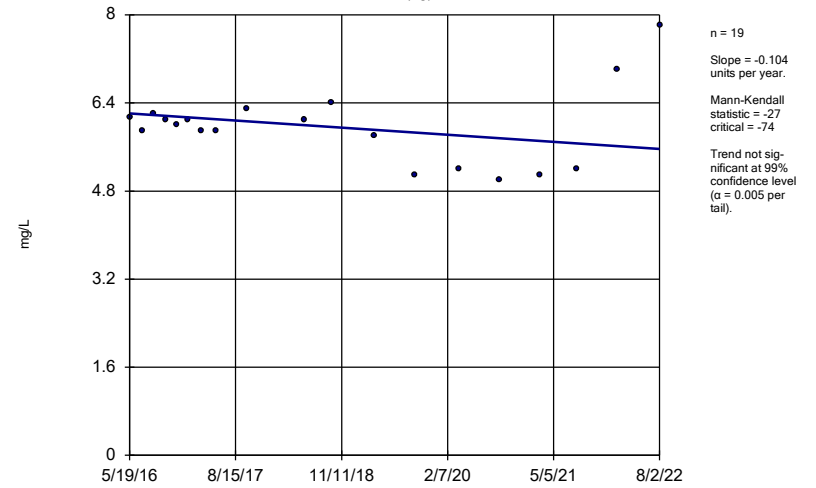
HGWA-1 (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

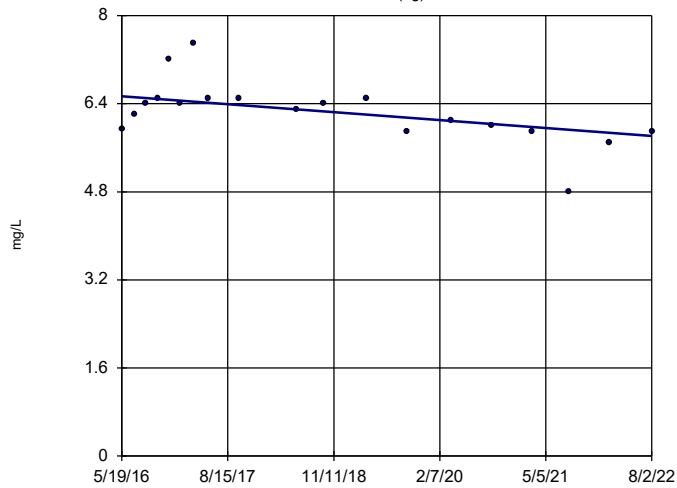
HGWA-2 (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

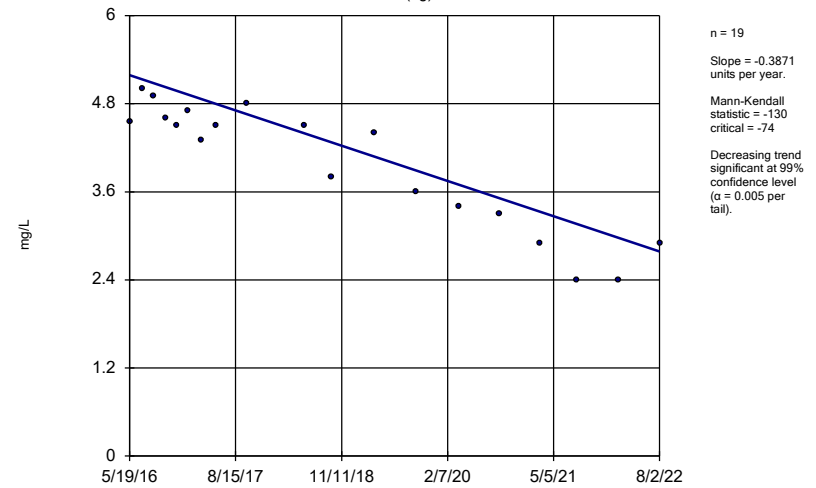
HGWA-3 (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

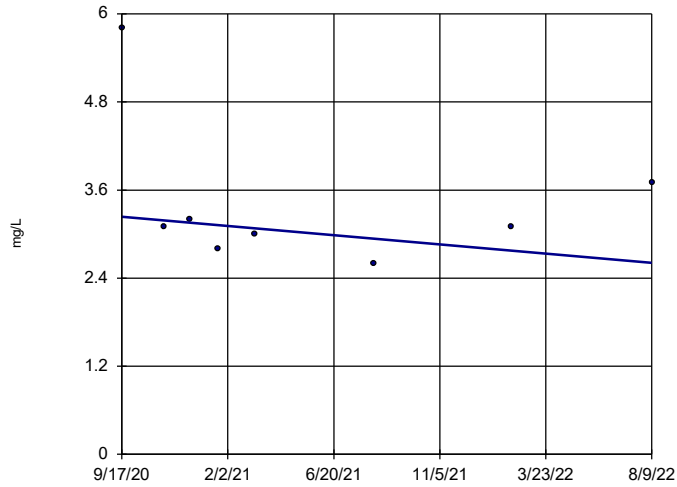
HGWA-4 (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

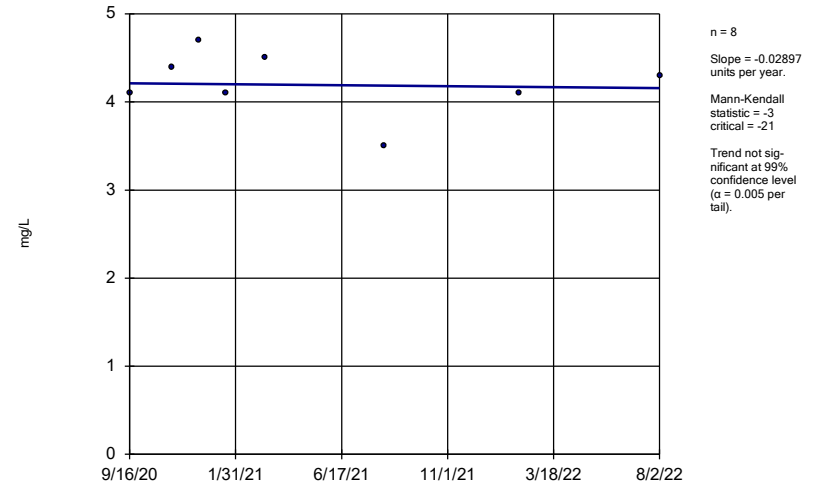
HGWA-42D (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

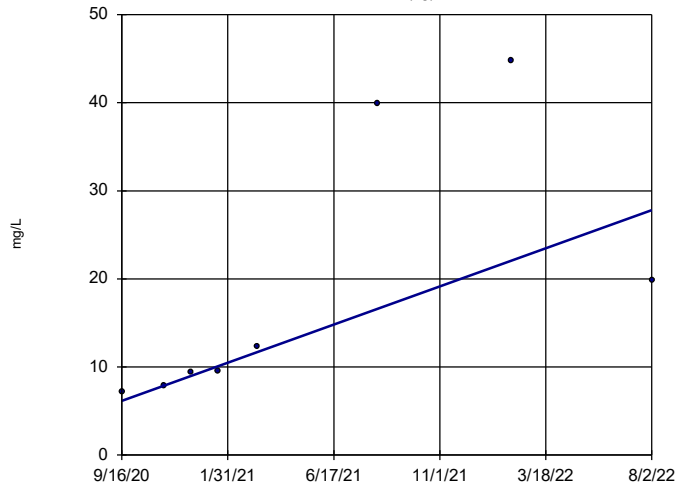
HGWA-43D (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

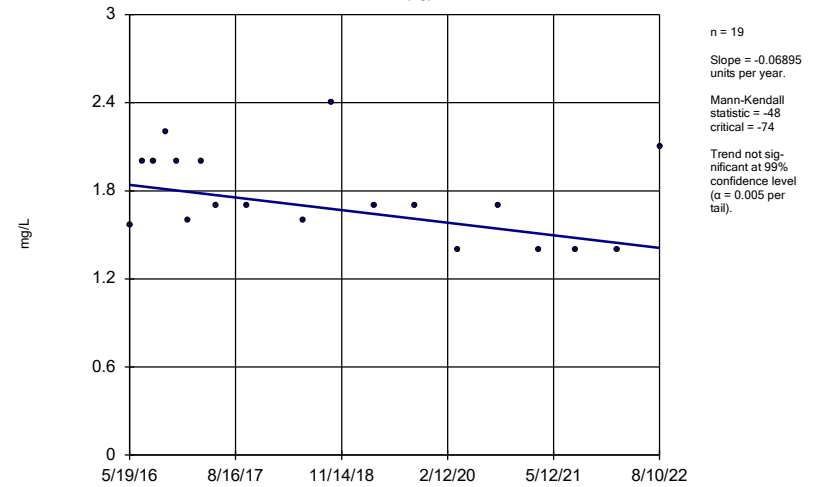
HGWA-44D (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

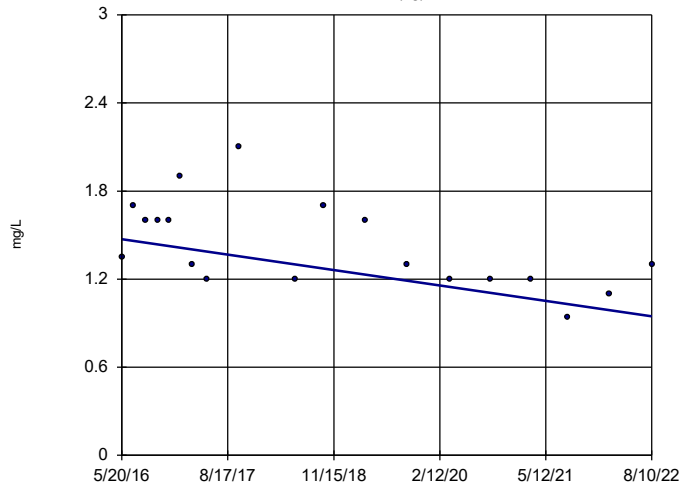
HGWA-5 (bg)



Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

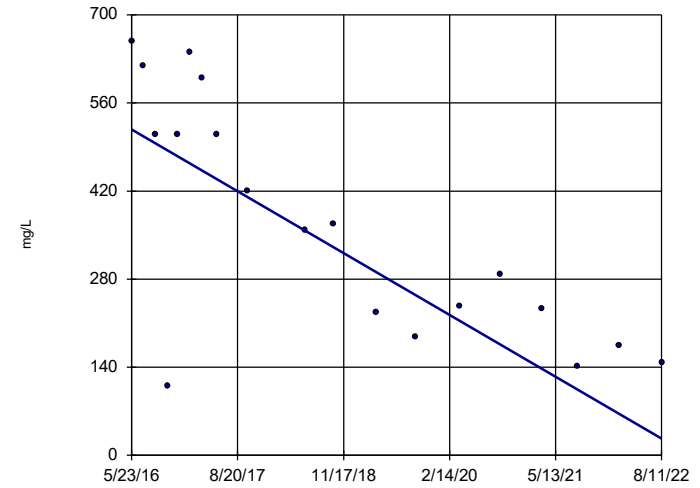


n = 19
 Slope = -0.0842
 units per year.
 Mann-Kendall
 statistic = -75
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

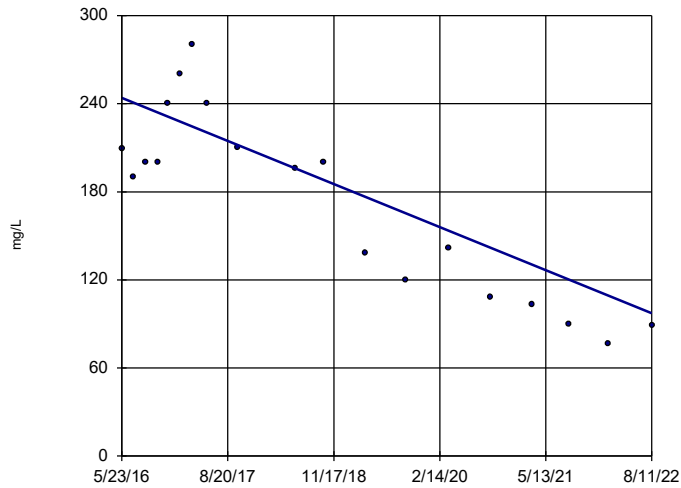


n = 19
 Slope = -78.91
 units per year.
 Mann-Kendall
 statistic = -108
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

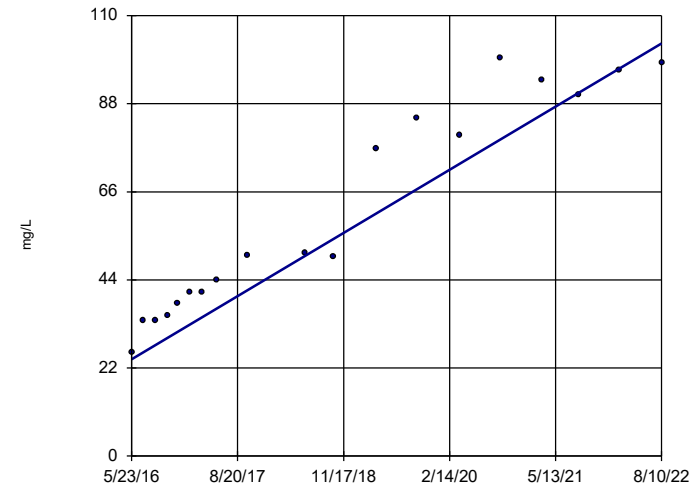


n = 19
 Slope = -23.58
 units per year.
 Mann-Kendall
 statistic = -105
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

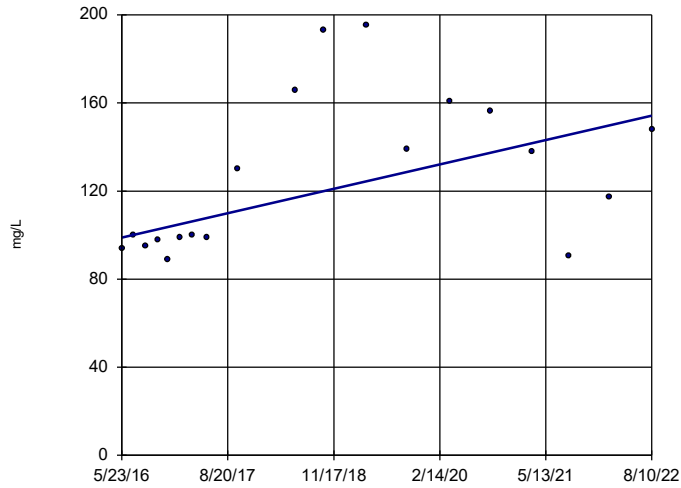


n = 19
 Slope = 12.69
 units per year.
 Mann-Kendall
 statistic = 153
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-17

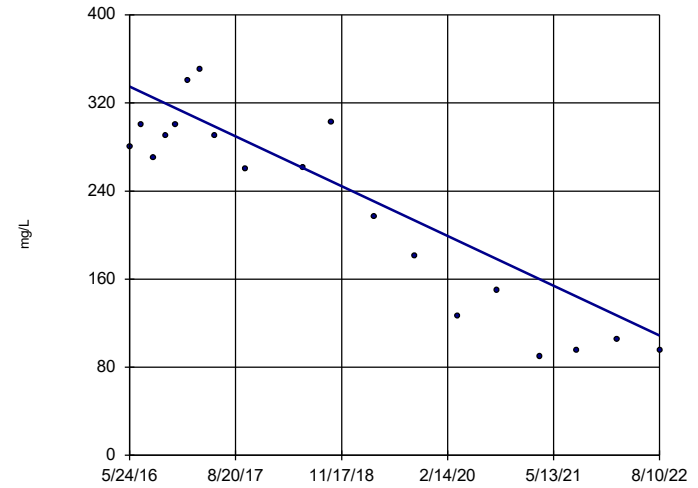


n = 19
 Slope = 8.907
 units per year.
 Mann-Kendall
 statistic = 63
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

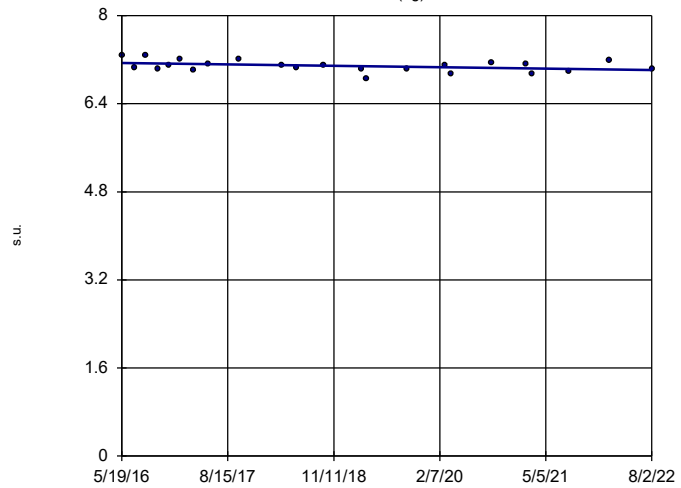


n = 19
 Slope = -36.35
 units per year.
 Mann-Kendall
 statistic = -103
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

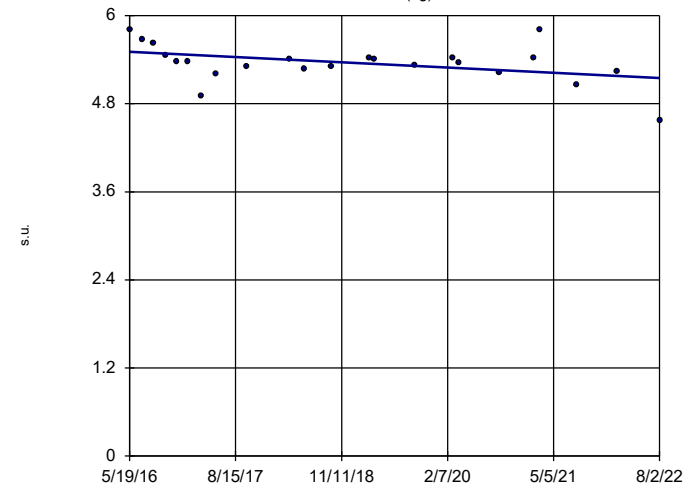


n = 23
 Slope = -0.02032
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

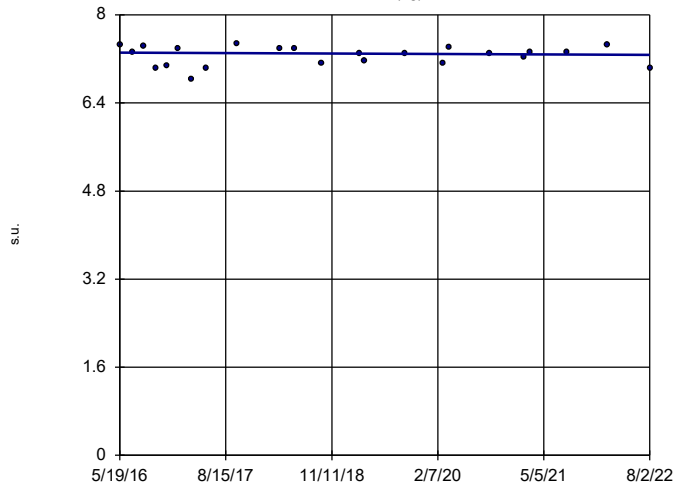


n = 23
 Slope = -0.05778
 units per year.
 Mann-Kendall
 statistic = -74
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

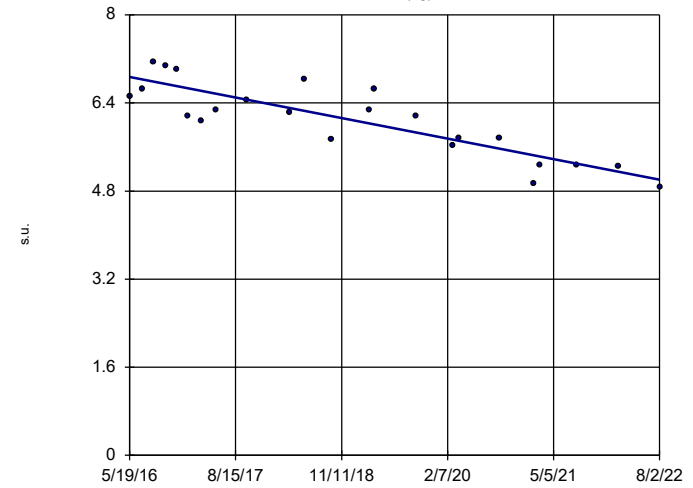


n = 23
 Slope = -0.00625 units per year.
 Mann-Kendall statistic = -11
 critical = -98
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

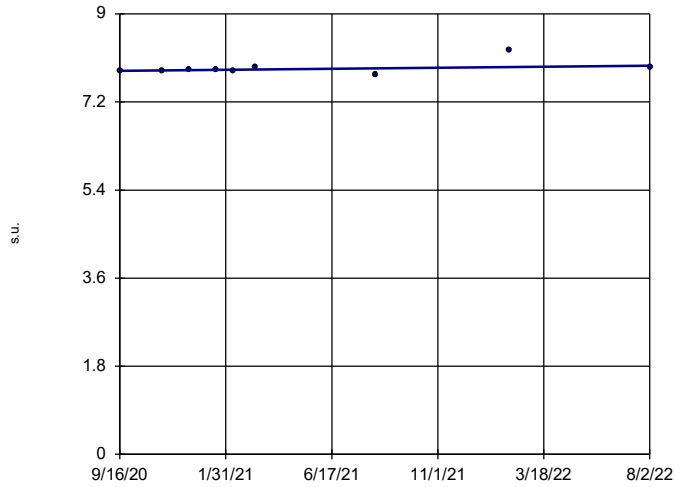
Sen's Slope Estimator

HGWA-4 (bg)



Sen's Slope Estimator

HGWA-44D (bg)

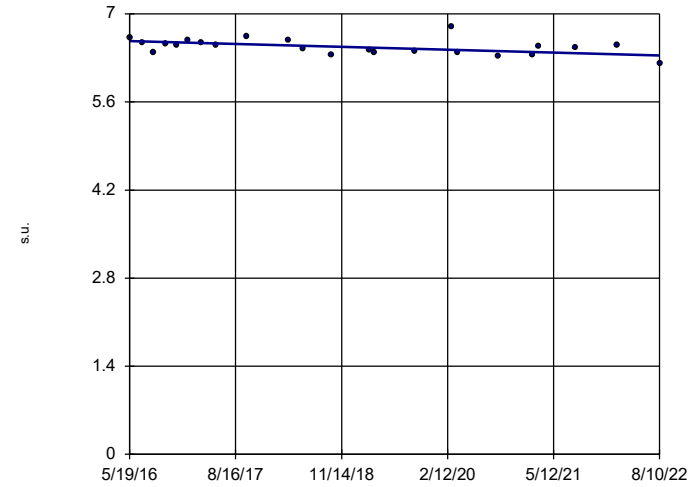


n = 9
 Slope = 0.0535
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

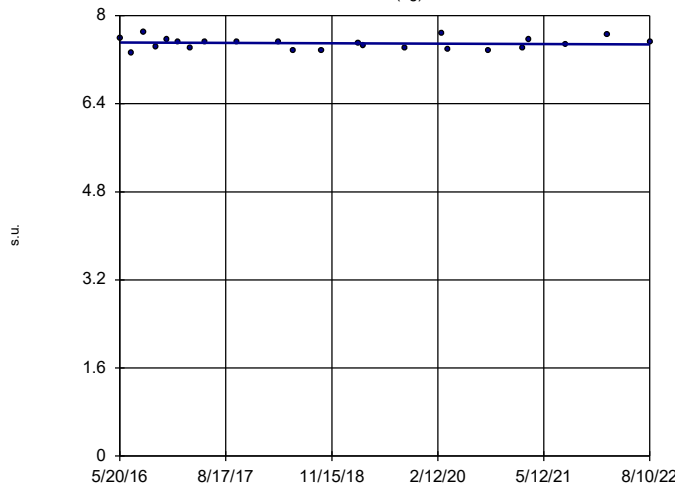


n = 23
 Slope = -0.03638
 units per year.
 Mann-Kendall
 statistic = -87
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

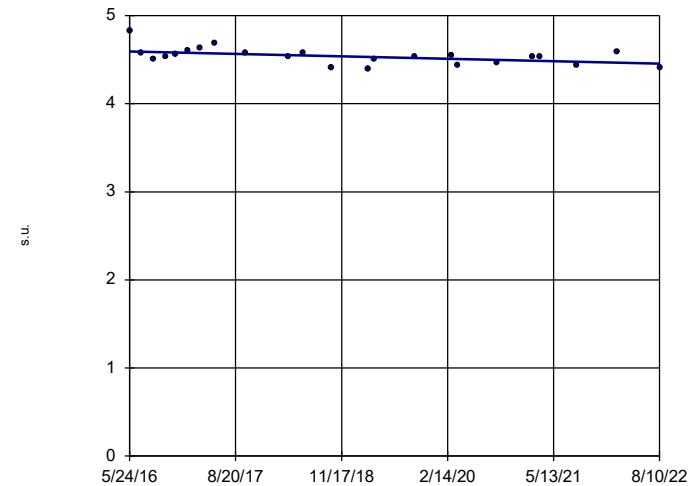


n = 23
 Slope = -0.005287
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

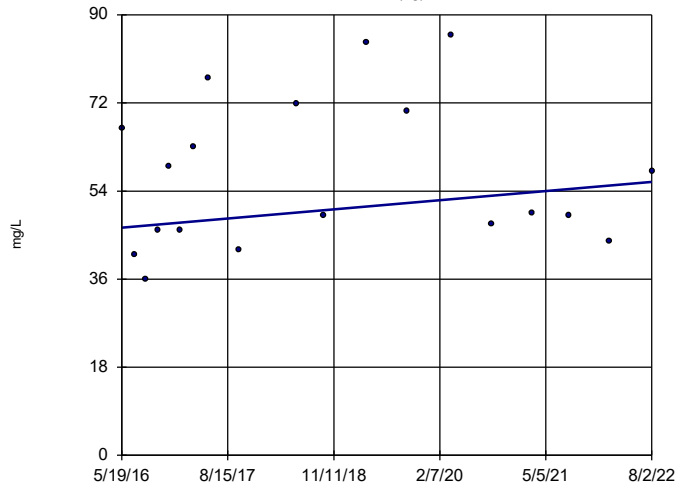


n = 23
 Slope = -0.02234
 units per year.
 Mann-Kendall
 statistic = -86
 critical = -98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Field pH Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

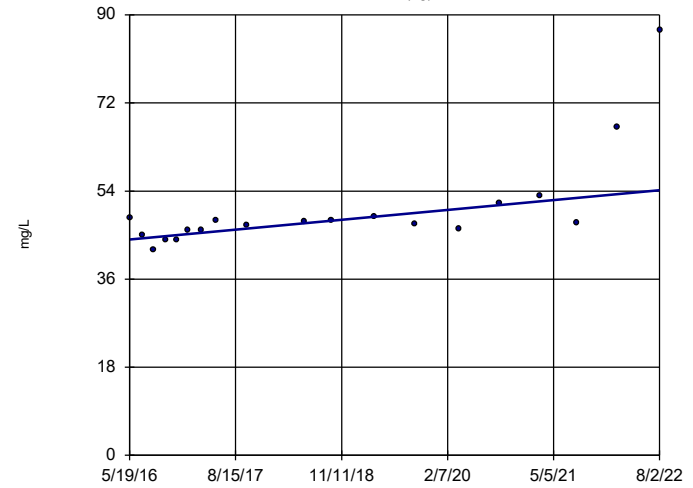


n = 19
 Slope = 1.506
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

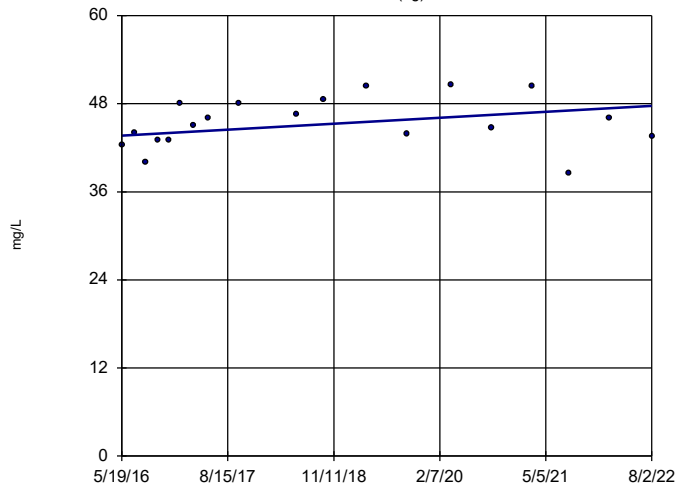


n = 19
 Slope = 1.619
 units per year.
 Mann-Kendall
 statistic = 101
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)



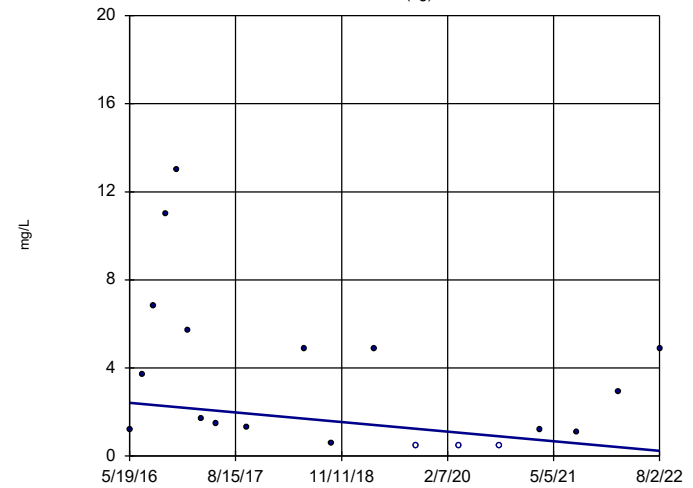
n = 19
 Slope = 0.648
 units per year.
 Mann-Kendall
 statistic = 45
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-4 (bg)

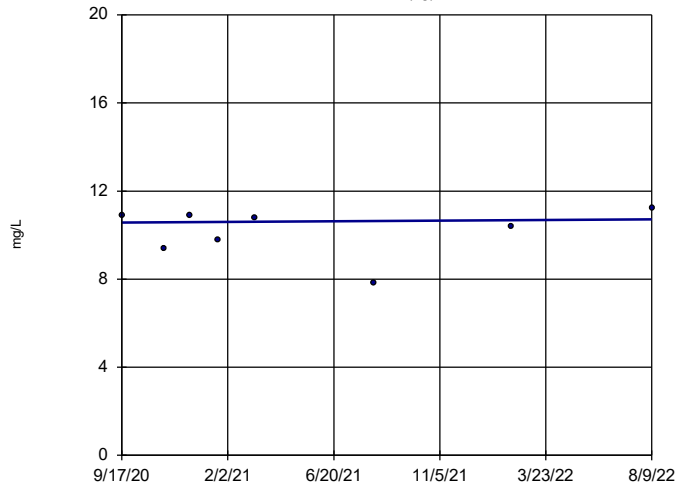


n = 19
 Slope = -0.3516
 units per year.
 Mann-Kendall
 statistic = -53
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

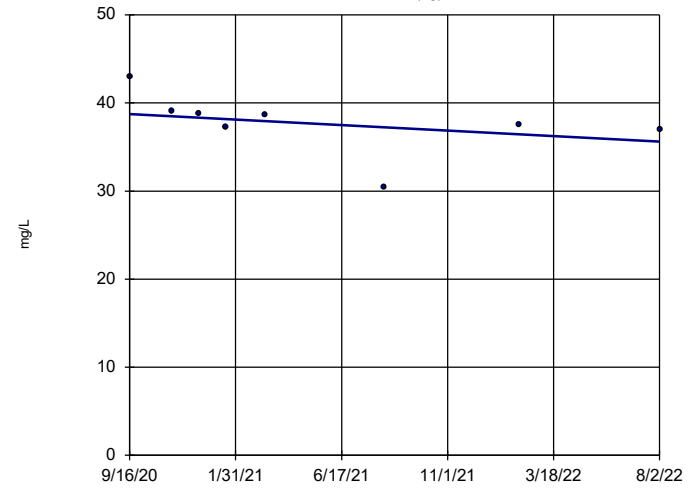


n = 8
 Slope = 0.07923 units per year.
 Mann-Kendall statistic = 1
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

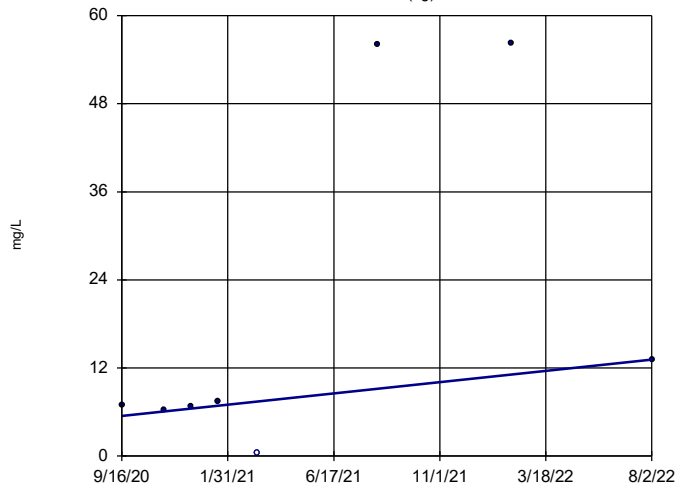


n = 8
 Slope = -1.657 units per year.
 Mann-Kendall statistic = -20
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

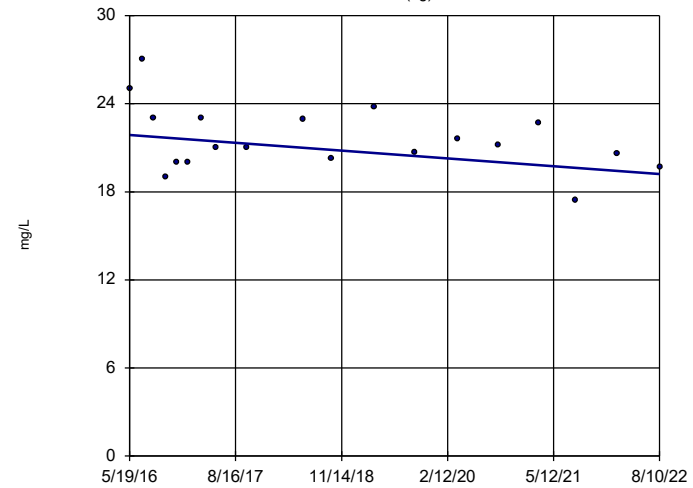


n = 8
 Slope = 4.085 units per year.
 Mann-Kendall statistic = 12
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

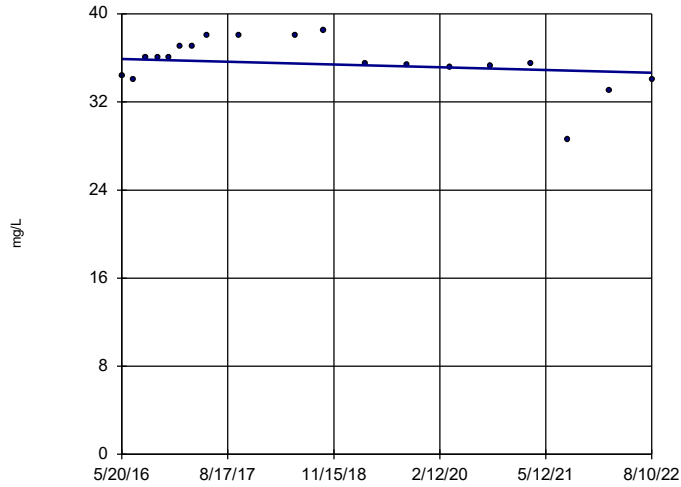
Sen's Slope Estimator

HGWA-5 (bg)



Sen's Slope Estimator

HGWA-6 (bg)

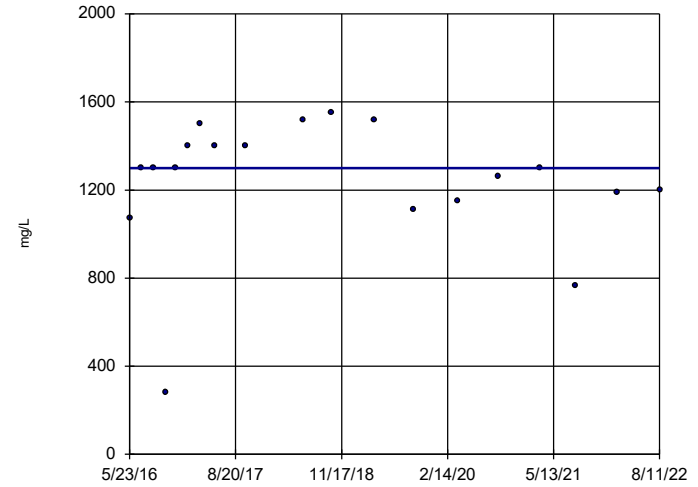


n = 19
 Slope = -0.2041
 units per year.
 Mann-Kendall
 statistic = -.34
 critical = -.74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

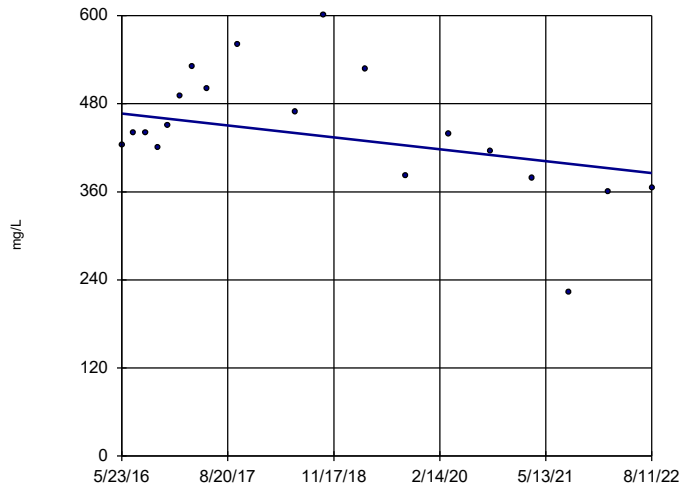


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -.3
 critical = -.74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

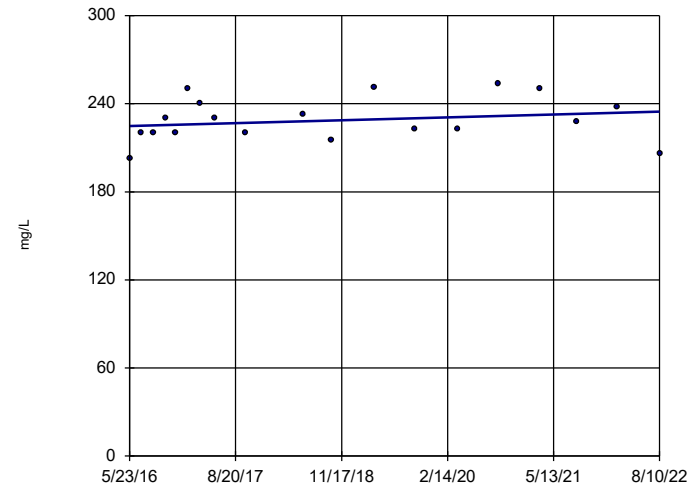


n = 19
 Slope = -13.02
 units per year.
 Mann-Kendall
 statistic = -.48
 critical = -.74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

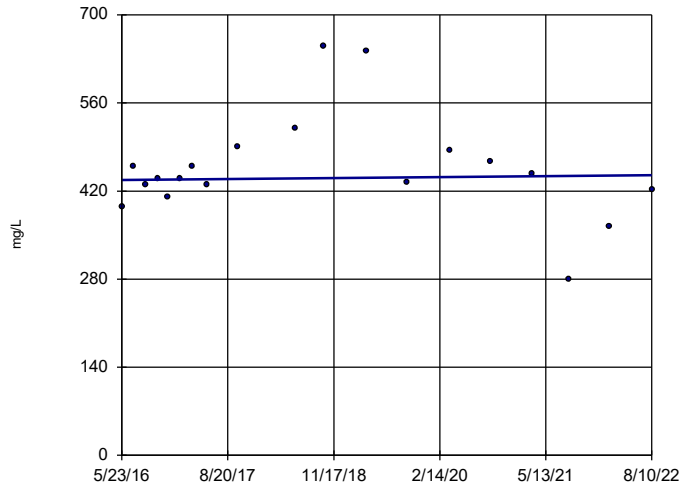


n = 19
 Slope = 1.567
 units per year.
 Mann-Kendall
 statistic = .36
 critical = .74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-17

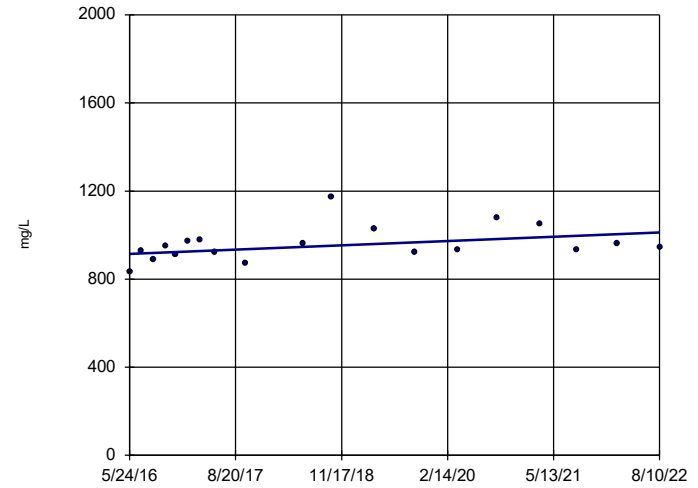


n = 19
 Slope = 1.305 units per year.
 Mann-Kendall statistic = 4
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

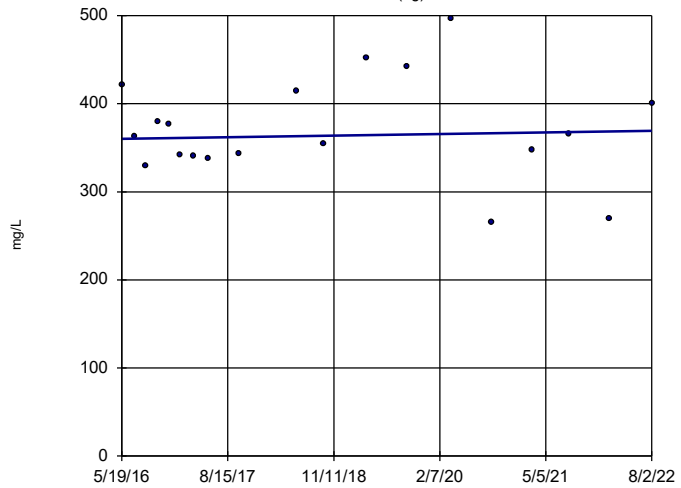


n = 19
 Slope = 15.66 units per year.
 Mann-Kendall statistic = 55
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

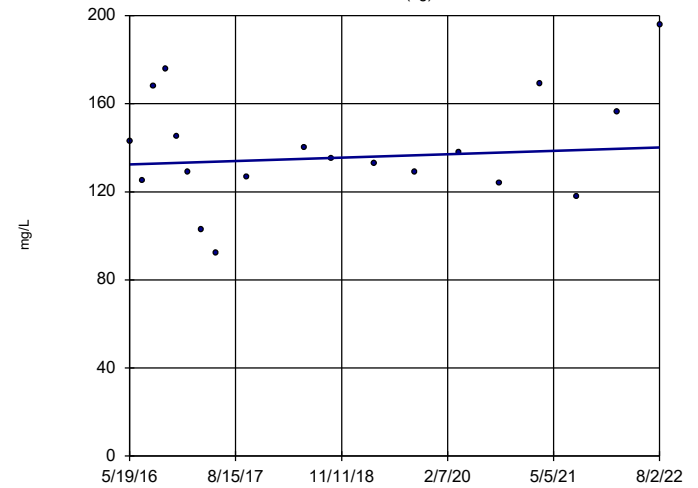


n = 19
 Slope = 1.454 units per year.
 Mann-Kendall statistic = 5
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:47 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

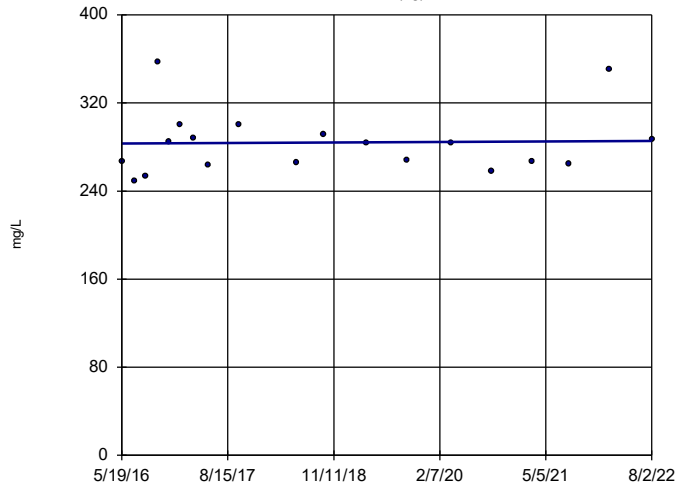


n = 19
 Slope = 1.249 units per year.
 Mann-Kendall statistic = 6
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

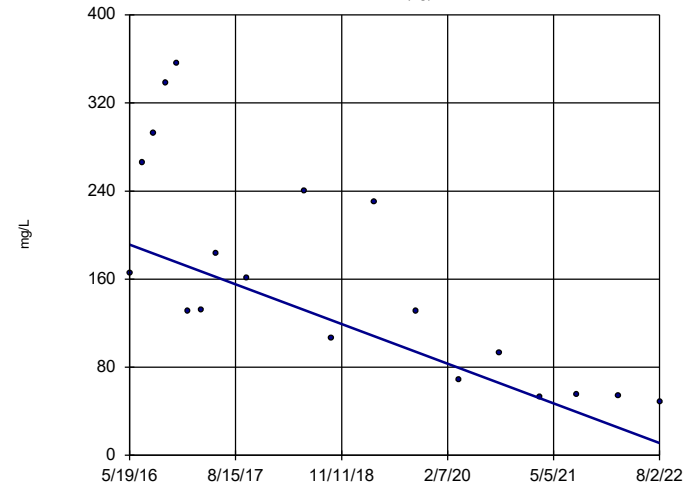


n = 19
 Slope = 0.361 units per year.
 Mann-Kendall statistic = 8
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

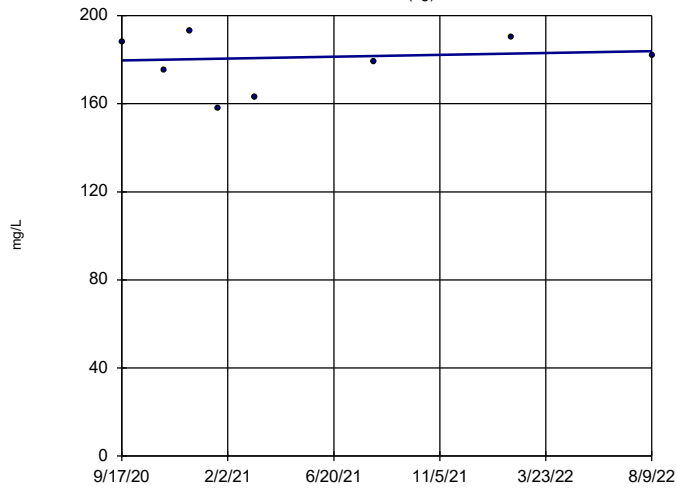


n = 19
 Slope = -29.05 units per year.
 Mann-Kendall statistic = -108
 critical = -74
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

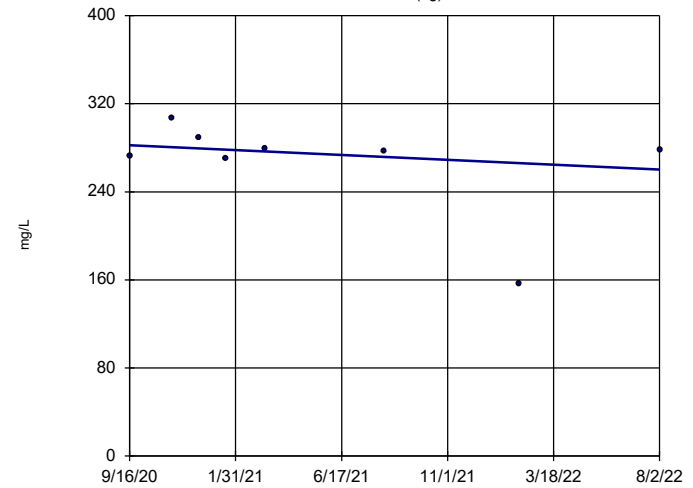


n = 8
 Slope = 2.231 units per year.
 Mann-Kendall statistic = 2
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

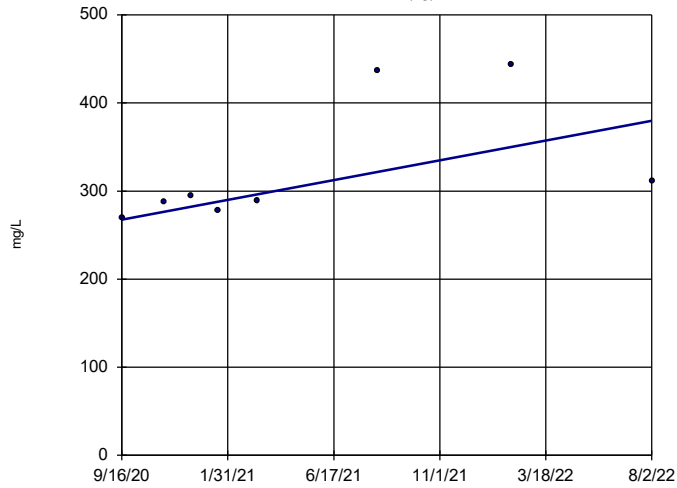


n = 8
 Slope = -11.77 units per year.
 Mann-Kendall statistic = -8
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

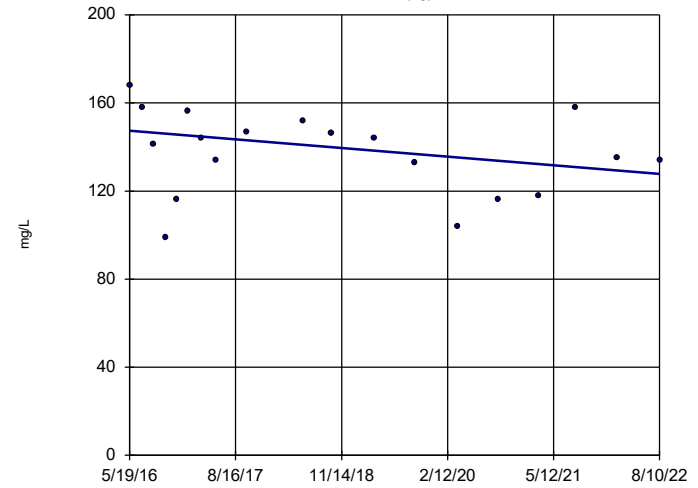


n = 8
 Slope = 59.96
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
 Plant Hammond Client: Southern Company Data: Hammond AP-2

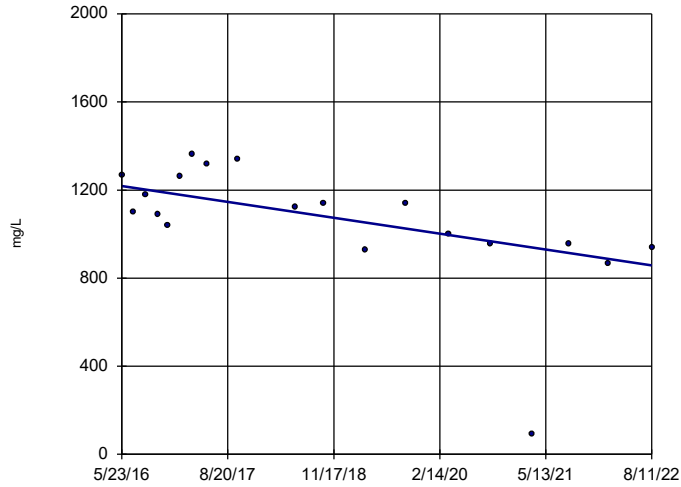
Sen's Slope Estimator

HGWA-5 (bg)



Sen's Slope Estimator

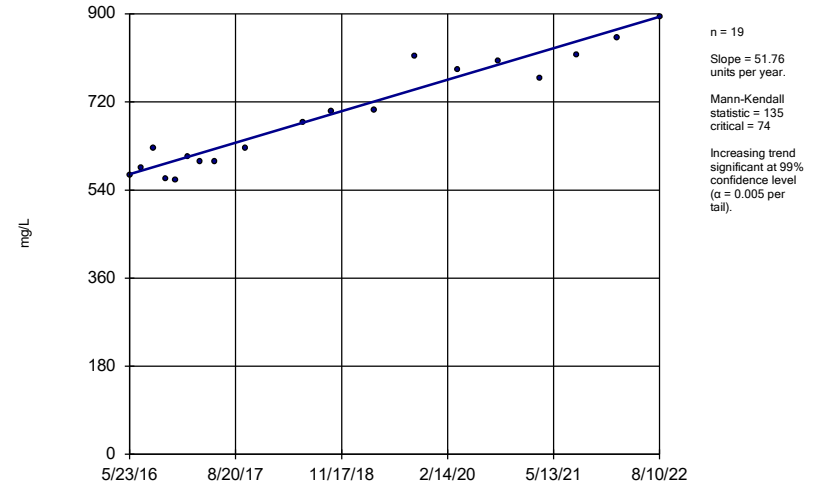
HGWC-15



Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

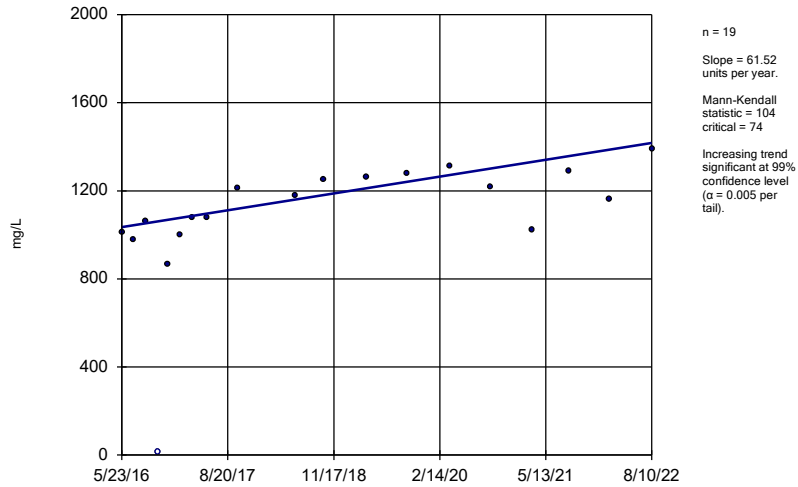
HGWC-16



Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

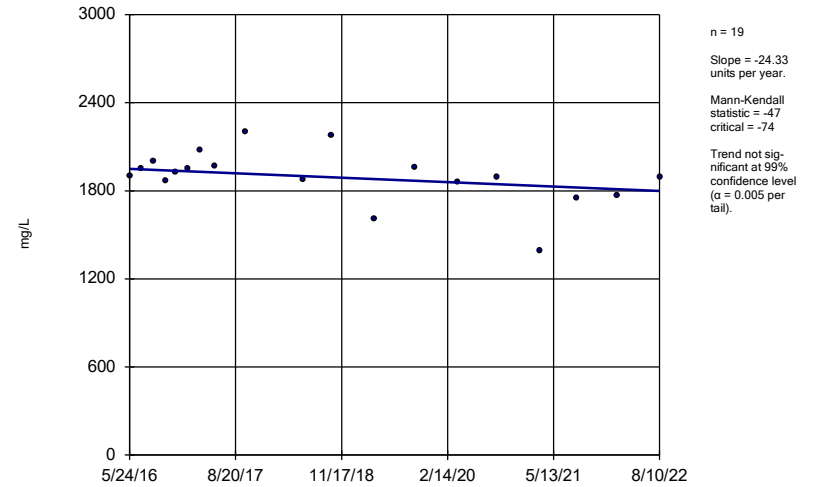
HGWC-17



Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18



Constituent: Total Dissolved Solids Analysis Run 10/26/2022 8:48 AM View: Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

FIGURE F.

Upper Tolerance Limits

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:55 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	126	n/a	81.75	n/a	n/a	0.00156	NP Inter(NDs)
Arsenic (mg/L)	0.005	159	n/a	80.5	n/a	n/a	0.0002871	NP Inter(NDs)
Barium (mg/L)	0.46	159	n/a	0	n/a	n/a	0.0002871	NP Inter(normality)
Beryllium (mg/L)	0.0005	147	n/a	82.99	n/a	n/a	0.0005313	NP Inter(NDs)
Cadmium (mg/L)	0.0005	159	n/a	92.45	n/a	n/a	0.0002871	NP Inter(NDs)
Chromium (mg/L)	0.019	147	n/a	84.35	n/a	n/a	0.0005313	NP Inter(NDs)
Cobalt (mg/L)	0.038	159	n/a	69.81	n/a	n/a	0.0002871	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	1.624	158	0.2746	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.96	165	n/a	32.73	n/a	n/a	0.0002111	NP Inter(normality)
Lead (mg/L)	0.001	147	n/a	73.47	n/a	n/a	0.0005313	NP Inter(normality)
Lithium (mg/L)	0.048	157	n/a	17.83	n/a	n/a	0.0003181	NP Inter(normality)
Mercury (mg/L)	0.0002	103	n/a	92.23	n/a	n/a	0.0005076	NP Inter(NDs)
Molybdenum (mg/L)	0.01	145	n/a	84.14	n/a	n/a	0.0005887	NP Inter(NDs)
Selenium (mg/L)	0.005	159	n/a	98.11	n/a	n/a	0.0002871	NP Inter(NDs)
Thallium (mg/L)	0.001	159	n/a	98.74	n/a	n/a	0.0002871	NP Inter(NDs)

FIGURE G.

PLANT HAMMOND AP-2 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		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0019	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.62	5
Fluoride, Total (mg/L)	4		0.96	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.048	0.048
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	HGWC-18	0.1858	0.1604	0.038	Yes	22	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05642	0.04802	0.038	Yes	9	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09723	0.08191	0.038	Yes	7	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-14	0.003	0.001	0.006	No	16	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-15	0.003	0.002	0.006	No	16	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-16	0.003	0.003	0.006	No	16	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-17	0.003	0.003	0.006	No	16	100	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-18	0.003	0.0008	0.006	No	16	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-21D	0.003	0.003	0.006	No	7	100	None	No	0.008	NP (NDs)
Antimony (mg/L)	MW-22	0.003	0.0016	0.006	No	7	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	MW-23D	0.003	0.003	0.006	No	7	100	None	No	0.008	NP (NDs)
Antimony (mg/L)	MW-33	0.003	0.00046	0.006	No	5	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	MW-35	0.003	0.00041	0.006	No	5	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	MW-37D	0.003	0.00079	0.006	No	5	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	HGWC-14	0.005935	0.004209	0.01	No	22	13.64	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-15	0.005	0.0008	0.01	No	22	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-16	0.005	0.0012	0.01	No	22	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-17	0.005	0.0017	0.01	No	22	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-18	0.006801	0.004876	0.01	No	22	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-21D	0.005	0.001	0.01	No	12	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-22	0.005	0.005	0.01	No	11	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-23D	0.005	0.001	0.01	No	11	81.82	None	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-33	0.007397	0.004228	0.01	No	8	12.5	None	No	0.01	Param.
Arsenic (mg/L)	MW-34D	0.006198	0.0004025	0.01	No	5	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-35	0.006195	0.003952	0.01	No	7	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	MW-37D	0.005	0.00095	0.01	No	7	57.14	Kaplan-Meier	No	0.008	NP (NDs)
Barium (mg/L)	HGWC-14	0.0228	0.019	2	No	22	4.545	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-15	0.02702	0.01785	2	No	22	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-16	0.1113	0.1002	2	No	22	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-17	0.02608	0.02341	2	No	22	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-18	0.0336	0.028	2	No	22	4.545	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21D	0.0682	0.04196	2	No	12	0	None	No	0.01	Param.
Barium (mg/L)	MW-22	0.03166	0.01579	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.06705	0.05168	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.02754	0.02096	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	MW-34D	0.04806	0.03314	2	No	5	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.03059	0.02227	2	No	7	0	None	No	0.01	Param.
Barium (mg/L)	MW-37D	0.1643	0.1039	2	No	7	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	HGWC-14	0.0005198	0.0004292	0.004	No	20	10	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-15	0.0005	0.0005	0.004	No	20	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-16	0.0005	0.0005	0.004	No	20	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-17	0.0005	0.000067	0.004	No	20	85	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-18	0.003411	0.002807	0.004	No	20	5	None	x^2	0.01	Param.
Beryllium (mg/L)	MW-21D	0.0005	0.0005	0.004	No	12	100	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-22	0.0005	0.000062	0.004	No	11	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-23D	0.0005	0.0005	0.004	No	11	100	None	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-33	0.001079	0.0008538	0.004	No	8	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-34D	0.0005	0.000065	0.004	No	5	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	MW-35	0.0007247	0.0003896	0.004	No	7	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-37D	0.0005	0.00012	0.004	No	7	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	HGWC-14	0.0005	0.00012	0.005	No	22	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-15	0.002134	0.001451	0.005	No	22	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	HGWC-16	0.0005	0.0005	0.005	No	22	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-17	0.0005	0.00007	0.005	No	22	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-18	0.002264	0.00165	0.005	No	22	4.545	None	No	0.01	Param.
Cadmium (mg/L)	MW-21D	0.0005	0.0005	0.005	No	12	100	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-22	0.002113	0.001658	0.005	No	11	0	None	x^5	0.01	Param.
Cadmium (mg/L)	MW-23D	0.0004778	0.000163	0.005	No	11	45.45	Kaplan-Meier	x^2	0.01	Param.
Cadmium (mg/L)	MW-33	0.0005	0.00013	0.005	No	8	12.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	MW-34D	0.0007001	0.00009987	0.005	No	5	40	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MW-35	0.001856	0.0008094	0.005	No	7	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-37D	0.0005	0.0005	0.005	No	7	100	None	No	0.008	NP (NDs)
Chromium (mg/L)	HGWC-14	0.005	0.00066	0.1	No	20	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-15	0.005	0.0012	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-16	0.005	0.0021	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-17	0.005	0.0018	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-18	0.005	0.00063	0.1	No	20	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-21D	0.005	0.00074	0.1	No	12	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-22	0.005	0.00075	0.1	No	11	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-23D	0.005	0.00086	0.1	No	11	81.82	None	No	0.006	NP (NDs)
Chromium (mg/L)	MW-33	0.005	0.00069	0.1	No	8	87.5	None	No	0.004	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-34D	0.0059	0.005	0.1	No	5	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	MW-35	0.005	0.00079	0.1	No	7	71.43	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-37D	0.005	0.0014	0.1	No	7	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	HGWC-14	0.0309	0.02482	0.038	No	22	4.545	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-15	0.04361	0.02544	0.038	No	22	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-16	0.005	0.00037	0.038	No	22	90.91	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-17	0.01588	0.01333	0.038	No	22	0	None	x^2	0.01	Param.
Cobalt (mg/L)	HGWC-18	0.1858	0.1604	0.038	Yes	22	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-21D	0.005	0.00034	0.038	No	12	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-22	0.03716	0.02284	0.038	No	11	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-23D	0.001153	0.0009394	0.038	No	11	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05642	0.04802	0.038	Yes	9	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-34D	0.01159	0.00401	0.038	No	5	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09723	0.08191	0.038	Yes	7	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-37D	0.005	0.00048	0.038	No	7	71.43	None	No	0.008	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	HGWC-14	1.581	1.095	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-15	0.8879	0.4543	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-16	0.9354	0.4974	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-17	1.005	0.656	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-18	2.188	1.629	5	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21D	1.074	0.4765	5	No	12	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.106	0.3733	5	No	11	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	1.072	0.5716	5	No	11	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-33	2.454	0.9906	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-34D	1.492	0.09339	5	No	5	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-35	3.014	0.6072	5	No	7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-37D	1.503	0.1049	5	No	7	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-14	0.1966	0.07897	4	No	23	21.74	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-15	0.12	0.097	4	No	23	43.48	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-16	0.23	0.059	4	No	23	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	HGWC-17	0.16	0.062	4	No	23	30.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-18	0.6201	0.3929	4	No	23	4.348	None	No	0.01	Param.
Fluoride (mg/L)	MW-21D	0.1	0.1	4	No	12	83.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-22	0.13	0.1	4	No	11	72.73	None	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-23D	0.14	0.1	4	No	11	72.73	None	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-33	0.2803	0.1377	4	No	9	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-34D	0.09123	0.04877	4	No	5	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-35	0.09925	0.05303	4	No	7	14.29	None	No	0.01	Param.
Fluoride (mg/L)	MW-37D	0.09129	0.04929	4	No	7	0	None	No	0.01	Param.
Lead (mg/L)	HGWC-14	0.001684	0.001358	0.015	No	20	10	None	No	0.01	Param.
Lead (mg/L)	HGWC-15	0.001	0.001	0.015	No	20	75	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-16	0.001	0.0001	0.015	No	20	55	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-17	0.001	0.000089	0.015	No	20	60	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-18	0.001416	0.001152	0.015	No	20	5	None	No	0.01	Param.
Lead (mg/L)	MW-21D	0.001	0.000048	0.015	No	12	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-22	0.001	0.000094	0.015	No	11	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	MW-23D	0.001	0.00016	0.015	No	11	81.82	None	No	0.006	NP (NDs)
Lead (mg/L)	MW-33	0.001785	0.001384	0.015	No	8	12.5	None	x^4	0.01	Param.
Lead (mg/L)	MW-34D	0.001	0.00087	0.015	No	5	80	None	No	0.031	NP (NDs)
Lead (mg/L)	MW-35	0.001	0.00016	0.015	No	7	42.86	None	No	0.008	NP (normality)
Lead (mg/L)	MW-37D	0.0017	0.000082	0.015	No	7	57.14	None	No	0.008	NP (NDs)
Lithium (mg/L)	HGWC-14	0.03	0.03	0.048	No	22	100	None	No	0.01	NP (NDs)
Lithium (mg/L)	HGWC-15	0.03	0.0021	0.048	No	22	27.27	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-16	0.0042	0.0029	0.048	No	21	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-17	0.03	0.0011	0.048	No	21	47.62	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-18	0.01439	0.01219	0.048	No	21	0	None	No	0.01	Param.
Lithium (mg/L)	MW-21D	0.02493	0.0214	0.048	No	12	0	None	No	0.01	Param.
Lithium (mg/L)	MW-22	0.0015	0.0011	0.048	No	11	0	None	No	0.006	NP (normality)
Lithium (mg/L)	MW-23D	0.0026	0.002127	0.048	No	11	0	None	No	0.01	Param.
Lithium (mg/L)	MW-33	0.001162	0.0008952	0.048	No	7	0	None	No	0.01	Param.
Lithium (mg/L)	MW-34D	0.003048	0.0001522	0.048	No	4	0	None	No	0.01	Param.
Lithium (mg/L)	MW-35	0.03	0.0036	0.048	No	7	14.29	None	No	0.008	NP (normality)
Lithium (mg/L)	MW-37D	0.03755	0.02812	0.048	No	6	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-14	0.0002	0.0002	0.002	No	14	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-15	0.0002	0.0002	0.002	No	14	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-16	0.0002	0.0002	0.002	No	13	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-17	0.0002	0.0002	0.002	No	13	100	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-18	0.0002	0.00006	0.002	No	13	61.54	None	No	0.01	NP (NDs)

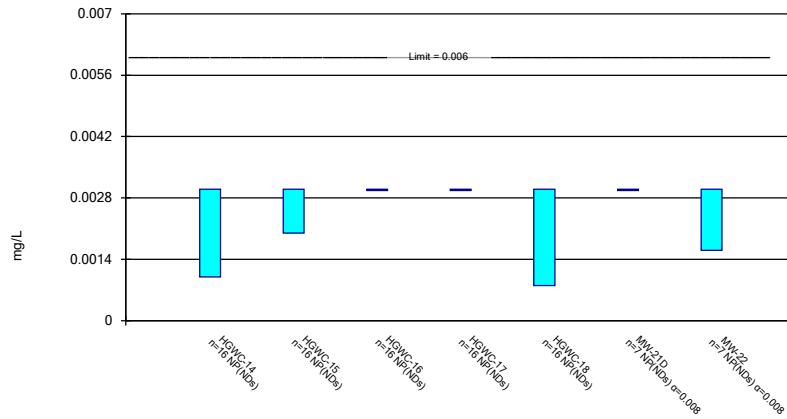
Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 11/1/2022, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	MW-21D	0.0002	0.0002	0.002	No	5	100	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-22	0.0002	0.00016	0.002	No	5	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00017	0.002	No	5	80	None	No	0.031	NP (NDs)
Molybdenum (mg/L)	HGWC-14	0.01	0.01	0.1	No	20	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-15	0.01	0.0007	0.1	No	20	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-16	0.01	0.01	0.1	No	19	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-17	0.01	0.01	0.1	No	19	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-18	0.01	0.01	0.1	No	19	100	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-21D	0.03062	0.017	0.1	No	12	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	MW-22	0.01	0.01	0.1	No	11	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.004878	0.002246	0.1	No	11	9.091	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-33	0.01	0.01	0.1	No	7	100	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MW-34D	0.01	0.01	0.1	No	4	100	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	MW-35	0.01	0.01	0.1	No	7	100	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	MW-37D	0.0228	0.005969	0.1	No	6	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-14	0.01222	0.006513	0.05	No	22	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-15	0.005	0.0041	0.05	No	22	81.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-16	0.005	0.000089	0.05	No	22	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-17	0.005	0.0023	0.05	No	22	86.36	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-18	0.03142	0.01619	0.05	No	22	4.545	None	No	0.01	Param.
Selenium (mg/L)	MW-21D	0.005	0.005	0.05	No	12	100	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-22	0.005	0.005	0.05	No	11	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	MW-23D	0.005	0.005	0.05	No	11	100	None	No	0.006	NP (NDs)
Selenium (mg/L)	MW-33	0.02786	0.006421	0.05	No	8	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	MW-34D	0.005	0.0025	0.05	No	5	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	MW-35	0.02485	0.007435	0.05	No	7	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	MW-37D	0.005	0.005	0.05	No	7	100	None	No	0.008	NP (NDs)
Thallium (mg/L)	HGWC-14	0.0003064	0.0002737	0.002	No	22	0	None	ln(x)	0.01	Param.
Thallium (mg/L)	HGWC-15	0.001	0.001	0.002	No	22	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-16	0.001	0.001	0.002	No	22	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-17	0.001	0.00013	0.002	No	22	68.18	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-18	0.001	0.00016	0.002	No	22	45.45	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-21D	0.001	0.001	0.002	No	12	100	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-22	0.001	0.001	0.002	No	11	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-23D	0.001	0.001	0.002	No	11	100	None	No	0.006	NP (NDs)
Thallium (mg/L)	MW-33	0.001	0.00025	0.002	No	8	12.5	None	No	0.004	NP (normality)
Thallium (mg/L)	MW-34D	0.001	0.00015	0.002	No	5	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	MW-35	0.001	0.00013	0.002	No	7	85.71	None	No	0.008	NP (NDs)
Thallium (mg/L)	MW-37D	0.001	0.001	0.002	No	7	100	None	No	0.008	NP (NDs)

Non-Parametric Confidence Interval

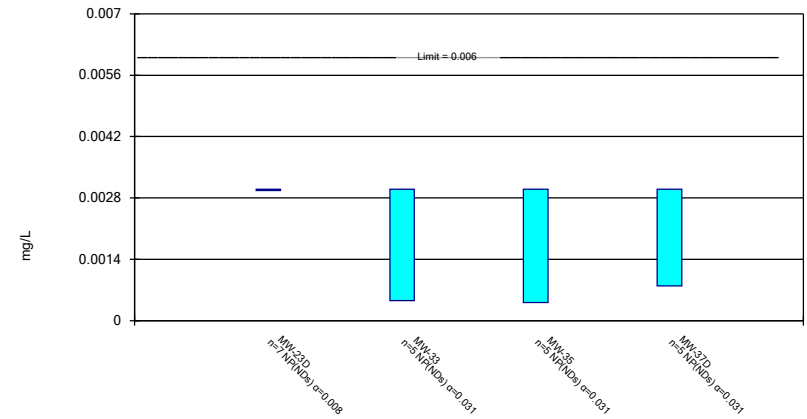
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

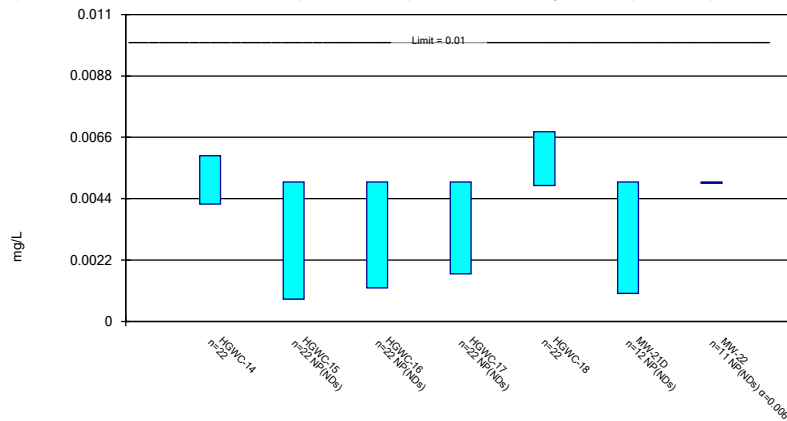
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

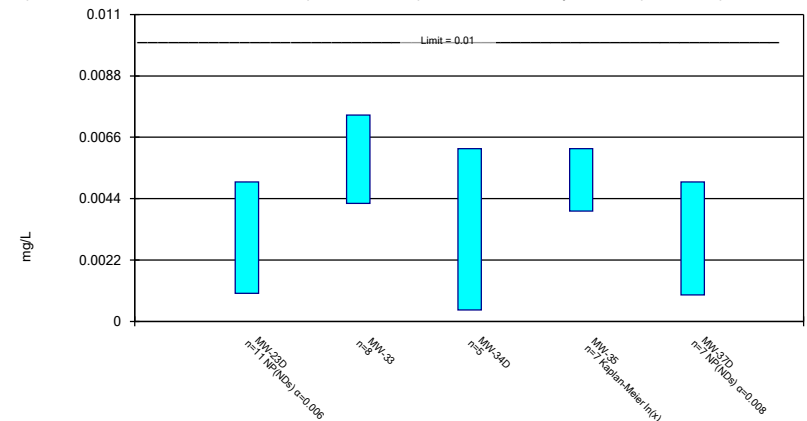
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Arsenic Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

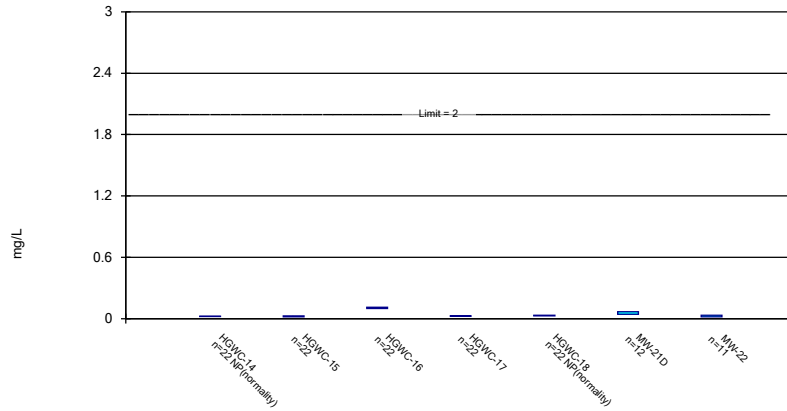
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Arsenic Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

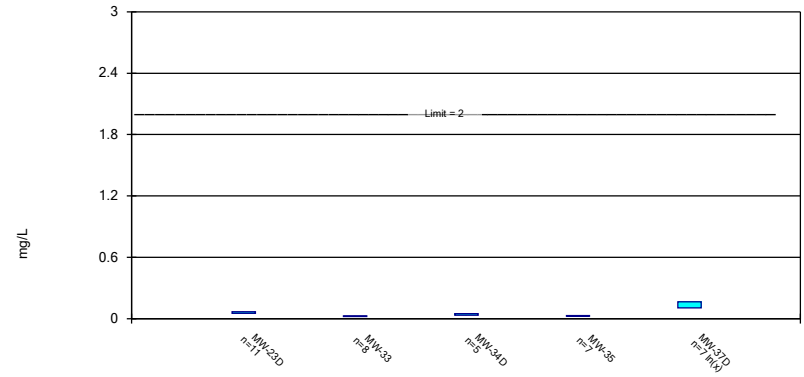
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/1/2022 2:39 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

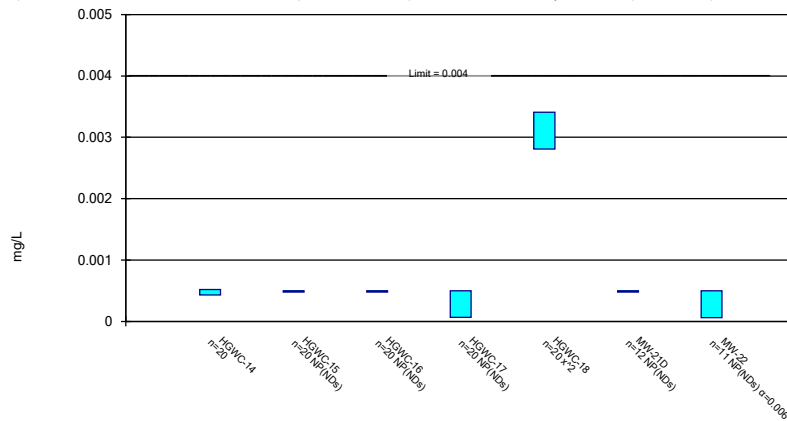
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/1/2022 2:39 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

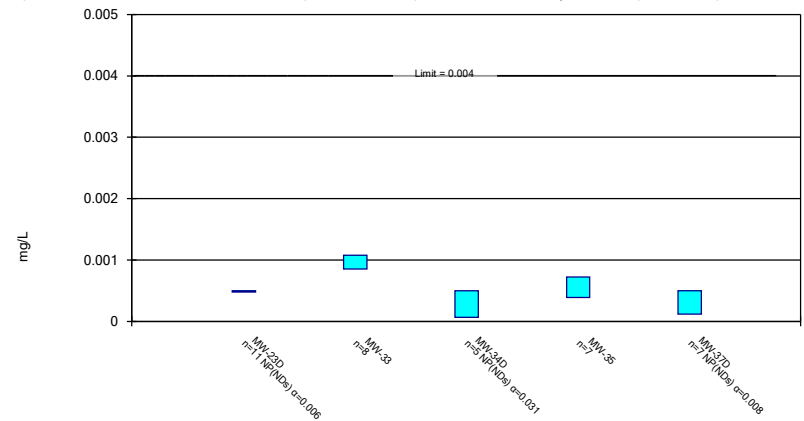
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Beryllium Analysis Run 11/1/2022 2:39 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

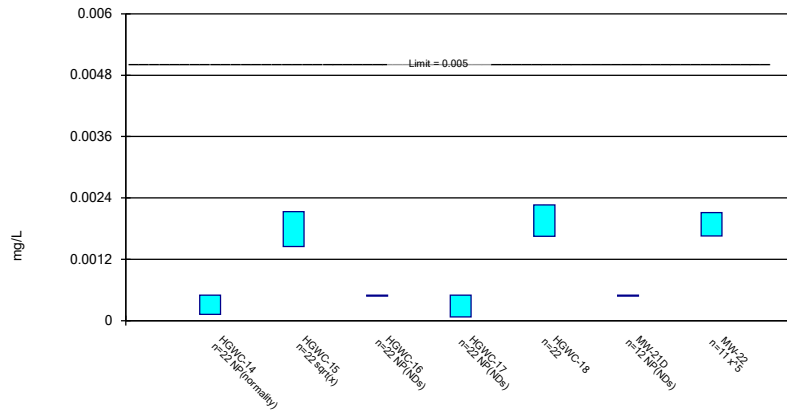
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Beryllium Analysis Run 11/1/2022 2:39 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

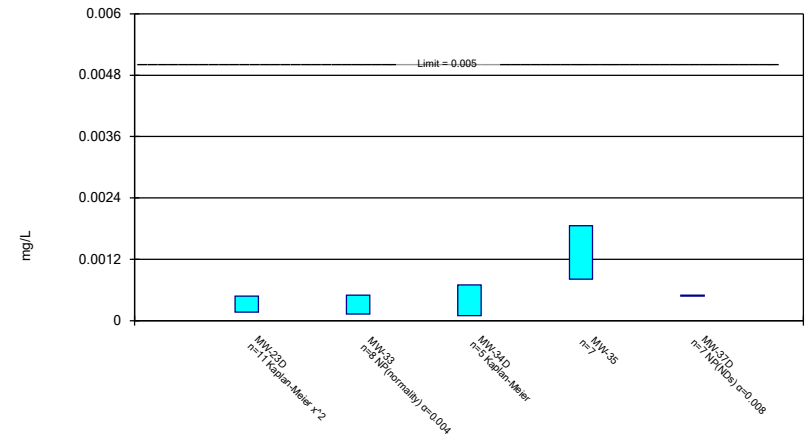
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

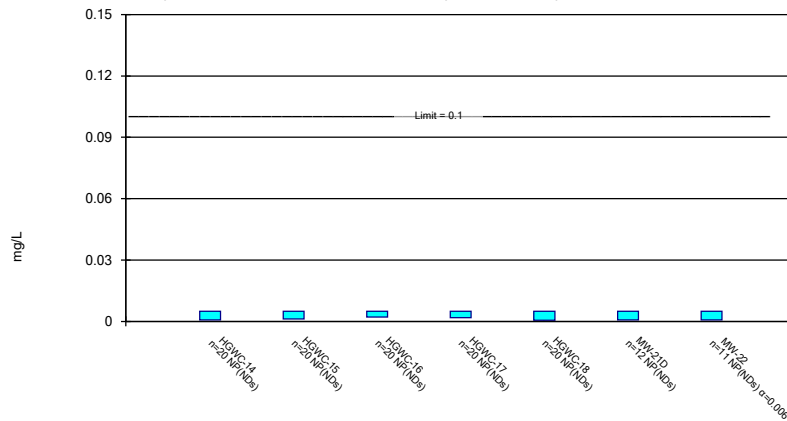
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Cadmium Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

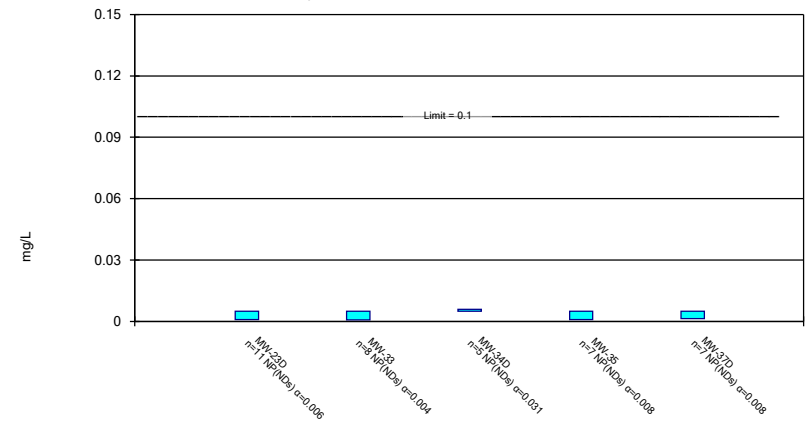
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

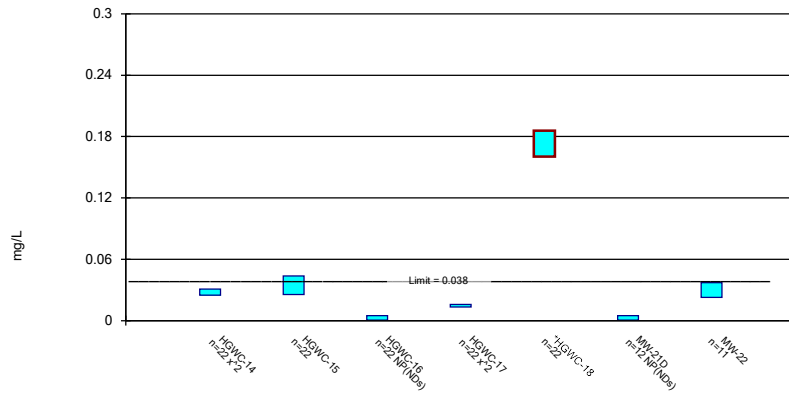
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/1/2022 2:39 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

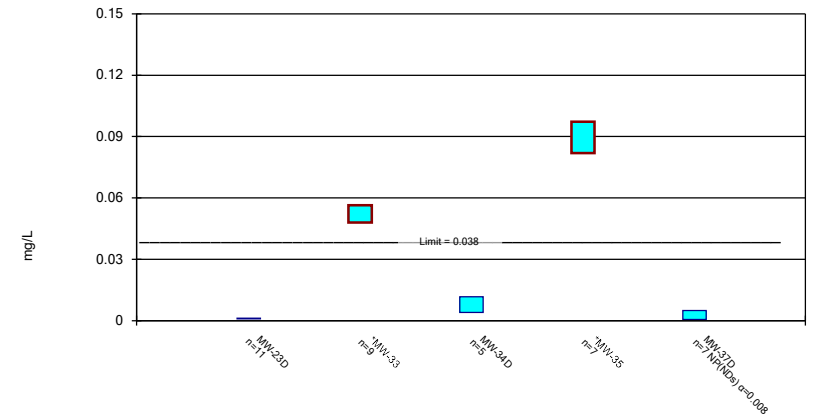
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/1/2022 2:39 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

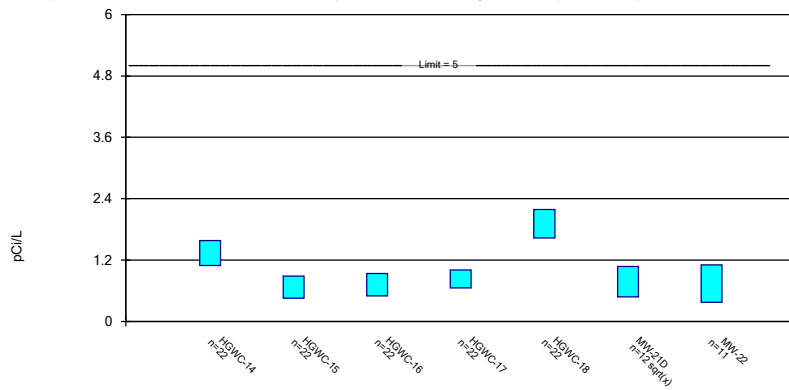
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Cobalt Analysis Run 11/1/2022 2:39 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

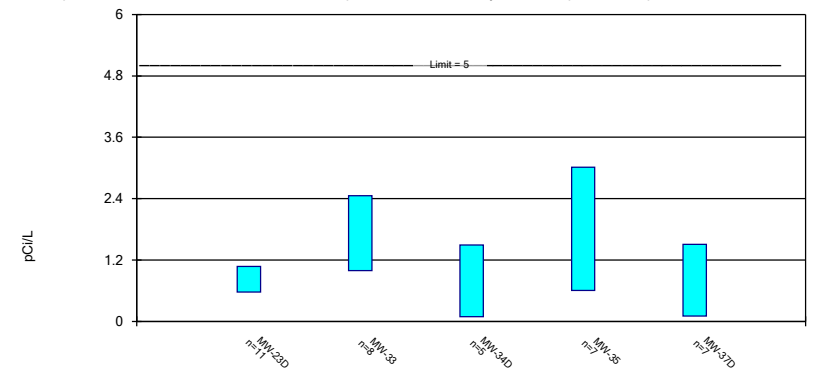
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

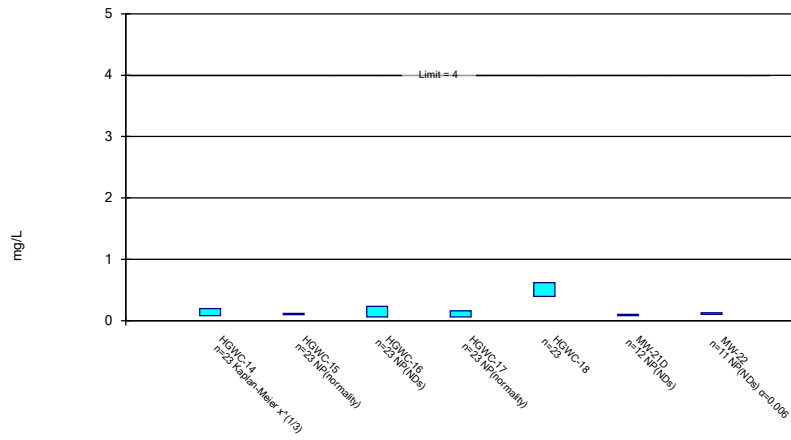
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

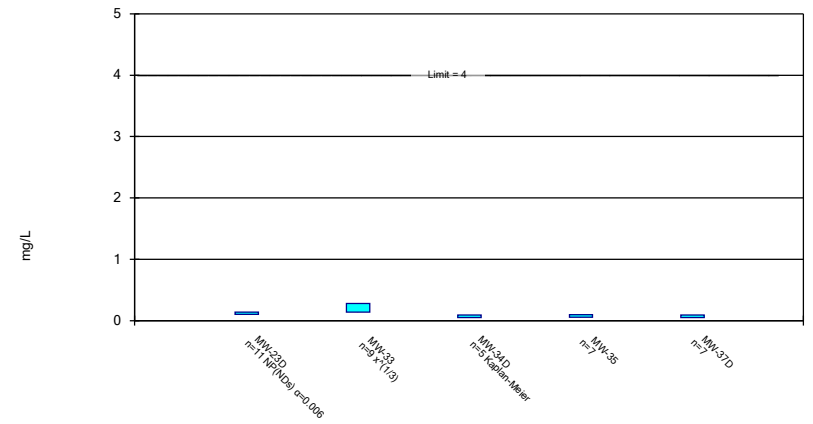
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Fluoride Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

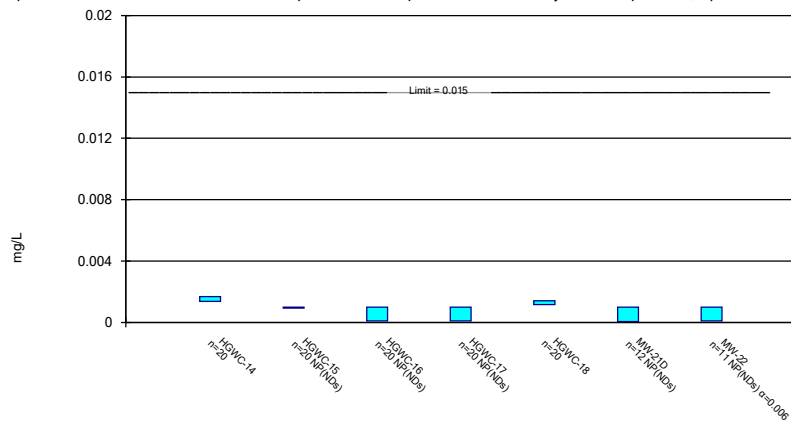
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Fluoride Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

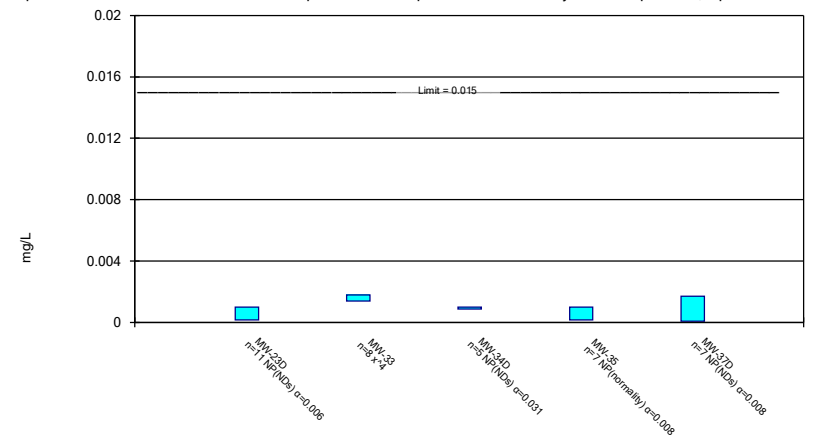
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Lead Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

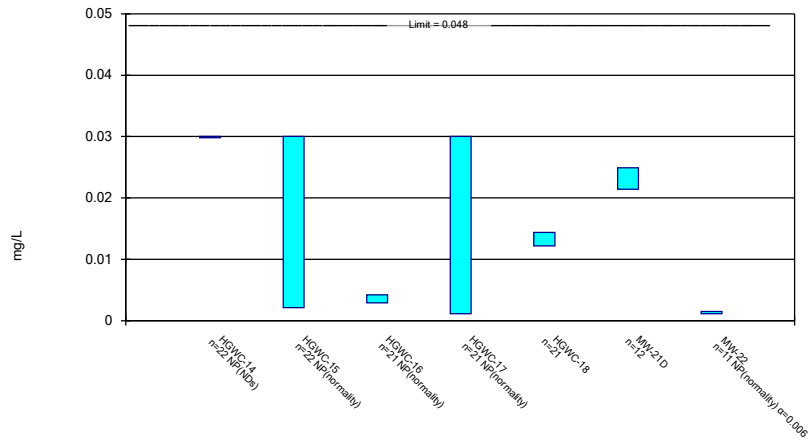
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Lead Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

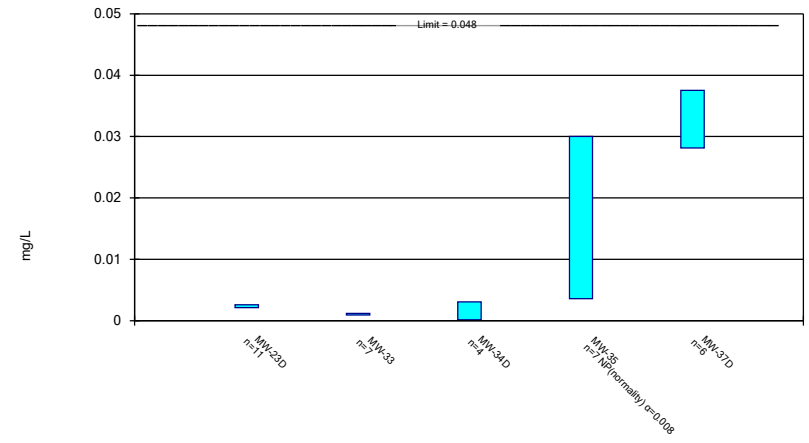
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Lithium Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

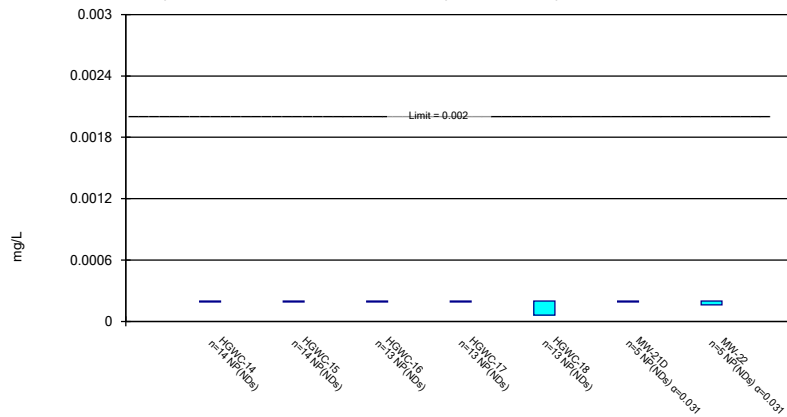
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Lithium Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

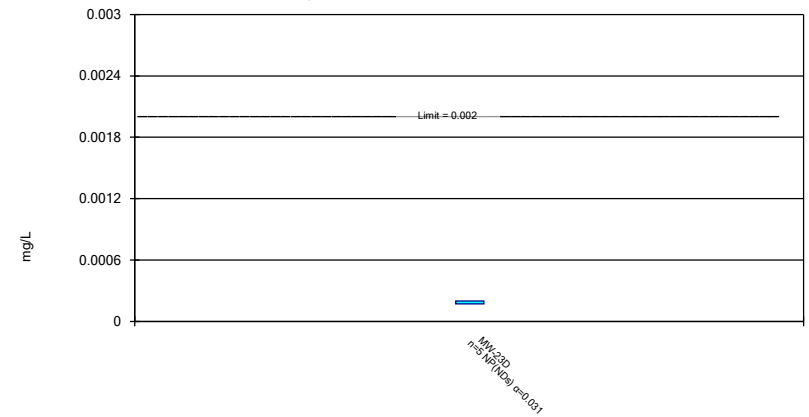
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

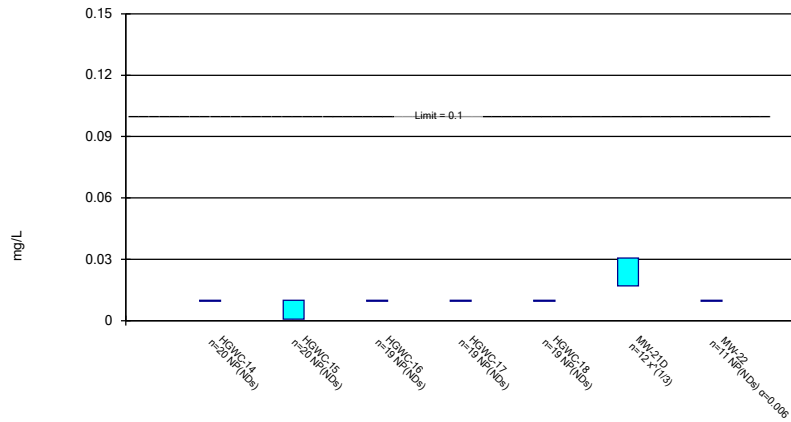
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

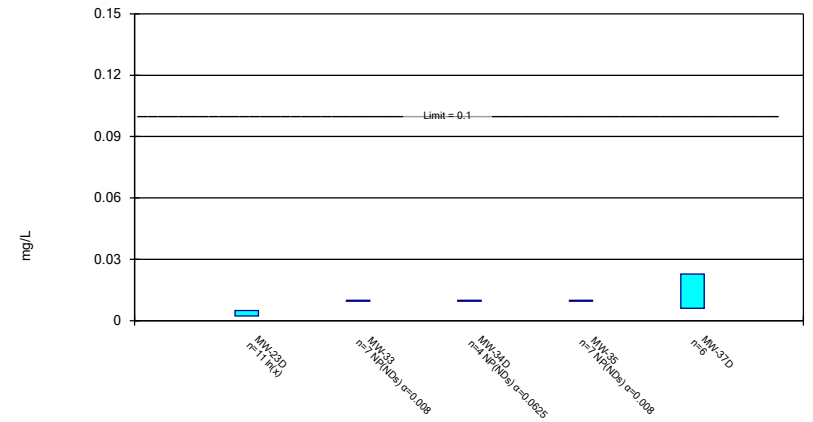
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Molybdenum Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

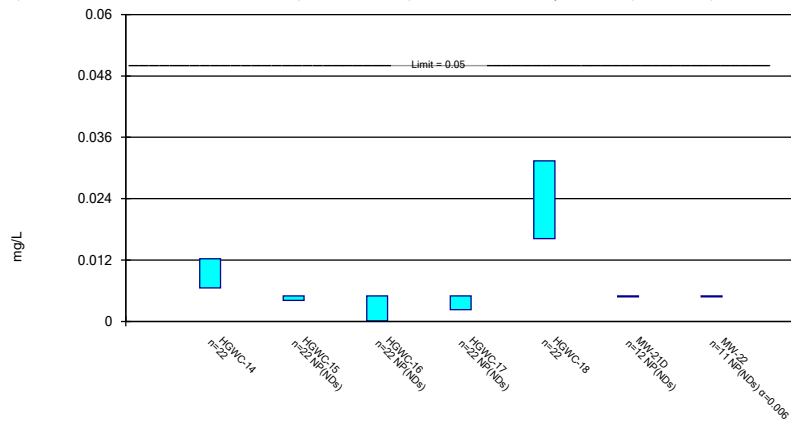
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Molybdenum Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

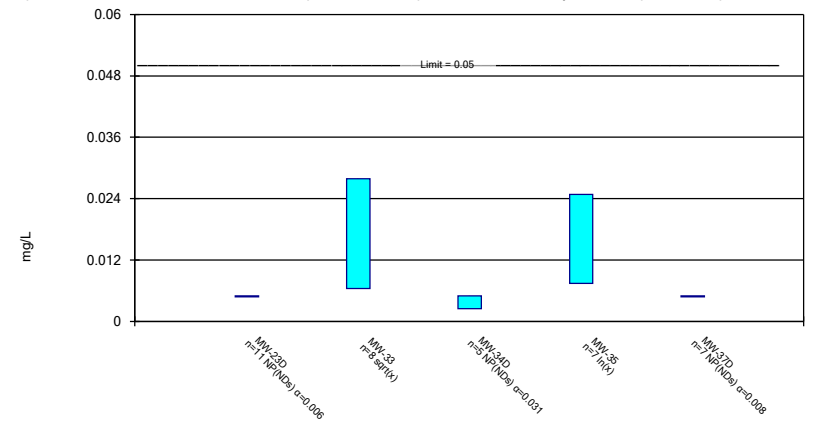
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Selenium Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

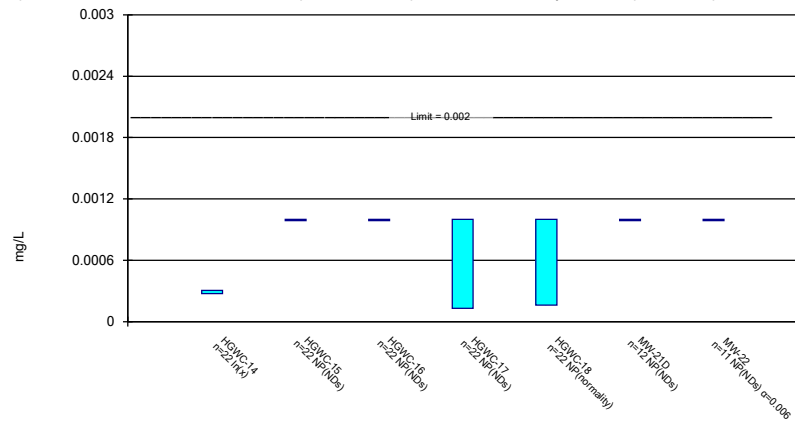
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Selenium Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

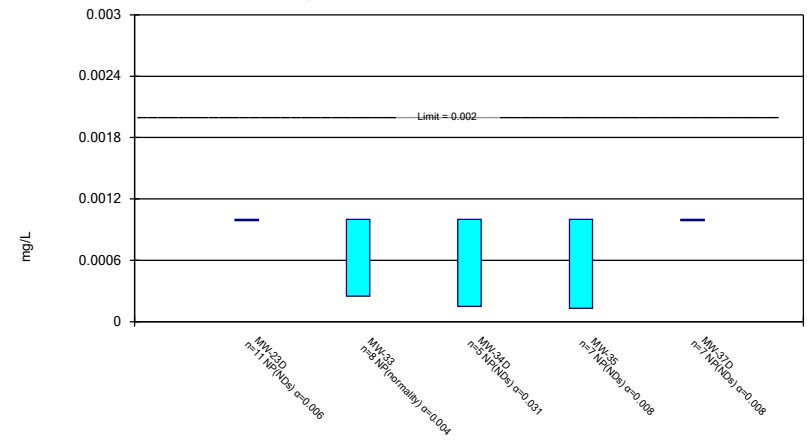
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Thallium Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 11/1/2022 2:40 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.003	<0.003	<0.003	<0.003			
5/24/2016					<0.003		
7/12/2016	0.0003 (J)	<0.003	<0.003	<0.003	<0.003		
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003		
10/24/2016	<0.003	<0.003					
10/25/2016			<0.003	<0.003	<0.003		
12/7/2016	<0.003	<0.003	<0.003	<0.003			
12/8/2016					<0.003		
1/26/2017	<0.003	<0.003	<0.003	<0.003	<0.003		
3/22/2017			<0.003	<0.003			
3/23/2017	<0.003	<0.003			<0.003		
5/24/2017	<0.003	<0.003	<0.003				
5/25/2017				<0.003	<0.003		
4/3/2018		<0.003	<0.003	<0.003	<0.003		
4/4/2018	<0.003						
3/14/2019	<0.003	<0.003			<0.003		
3/15/2019			<0.003	<0.003		<0.003	<0.003
3/2/2020							<0.003
3/3/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/10/2021			<0.003				
2/11/2021	0.00043 (J)			<0.003	<0.003	<0.003	
2/12/2021		<0.003					
2/15/2021							<0.003
3/16/2021		<0.003					
3/17/2021	<0.003		<0.003				<0.003
3/18/2021				<0.003	<0.003	<0.003	
8/18/2021	<0.003			<0.003			
8/19/2021		<0.003	<0.003		0.0008 (J)	<0.003	0.0016 (J)
2/8/2022		0.002 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
2/9/2022	<0.003						
8/10/2022			<0.003	<0.003	<0.003		
8/11/2022	0.001 (J)	0.0016 (J)				<0.003	<0.003
Mean	0.002546	0.00285	0.003	0.003	0.002863	0.003	0.0028
Std. Dev.	0.0009863	0.0004163	0	0	0.00055	0	0.0005292
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.002	0.003	0.003	0.0008	0.003	0.0016

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-35	MW-37D
3/14/2019	<0.003			
3/2/2020	<0.003			
2/11/2021				0.00079 (J)
2/12/2021	<0.003	0.00046 (J)		
2/15/2021			0.00041 (J)	
3/12/2021				<0.003
3/17/2021	<0.003			
3/18/2021		<0.003		
3/19/2021			<0.003	
8/18/2021		<0.003	<0.003	<0.003
8/19/2021	<0.003			
2/8/2022		<0.003	0.0029 (J)	<0.003
2/10/2022	<0.003			
8/10/2022		<0.003		<0.003
8/11/2022	<0.003		<0.003	
Mean	0.003	0.002492	0.002462	0.002558
Std. Dev.	0	0.001136	0.001148	0.0009883
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.00046	0.00041	0.00079

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	0.00268 (J)	<0.005	<0.005	<0.005			
5/24/2016					0.00294 (J)		
7/12/2016	0.0059	<0.005	<0.005	<0.005	0.0074		
9/1/2016	0.0056	<0.005	<0.005	<0.005	0.0073		
10/24/2016	0.0058	<0.005					
10/25/2016			<0.005	<0.005	0.006		
12/7/2016	<0.005	<0.005	<0.005	<0.005			
12/8/2016					0.007		
1/26/2017	0.0089	<0.005	<0.005	<0.005	0.0068		
3/22/2017			0.0005 (J)	0.0007 (J)			
3/23/2017	0.0069	0.0008 (J)			0.0082		
5/24/2017	0.0048 (J)	<0.005	<0.005				
5/25/2017				0.0007 (J)	0.006		
4/3/2018		<0.005	<0.005	<0.005	0.0062		
4/4/2018	0.0052						
6/5/2018					0.008		
6/6/2018	0.0059	<0.005	<0.005	0.00097 (J)			
10/3/2018	0.0032 (J)	<0.005	<0.005	<0.005	0.0039 (J)		
3/14/2019	0.0029 (J)	<0.005			0.0036 (J)		
3/15/2019			<0.005	<0.005		<0.005	<0.005
4/4/2019		0.00017 (J)	0.0001 (J)			0.00019 (J)	
4/5/2019	<0.005			<0.005	0.0015 (J)		<0.005
9/24/2019	0.0039 (J)	0.00037 (J)					
9/25/2019			<0.005	<0.005	0.0044 (J)	<0.005	
9/27/2019							0.00045 (J)
3/2/2020							<0.005
3/3/2020	0.0035 (J)	<0.005	<0.005	<0.005	0.0057	<0.005	
3/26/2020		<0.005					
3/27/2020							<0.005
3/30/2020	0.0051		0.0011 (J)				
3/31/2020				0.0008 (J)	0.0056		
4/1/2020						0.0013 (J)	
6/17/2020						<0.005	
9/15/2020					0.0074		
9/16/2020				<0.005			
9/17/2020		<0.005	<0.005				<0.005
9/18/2020	0.0029 (J)						
9/21/2020						<0.005	
2/10/2021			0.0012 (J)				
2/11/2021	0.0062			0.0012 (J)	0.0069 (B)	0.001 (J)	
2/12/2021		<0.005					
2/15/2021							<0.005
3/16/2021		<0.005					
3/17/2021	<0.005		<0.005				<0.005
3/18/2021				<0.005	0.0083 (J)	<0.005	
8/18/2021	0.0035 (J)			<0.005			
8/19/2021		<0.005	<0.005		0.0045 (J)	<0.005	<0.005
2/8/2022		<0.005	<0.005	0.0017 (J)	0.005 (J)	<0.005	<0.005
2/9/2022	0.0077						
8/10/2022			<0.005	<0.005	0.0058		
8/11/2022	0.006	<0.005				0.003 (J)	<0.005
Mean	0.005072	0.004379	0.004223	0.003912	0.005838	0.003791	0.004586

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	0.001608	0.001602	0.001699	0.001828	0.001793	0.00189	0.001372
Upper Lim.	0.005935	0.005	0.005	0.005	0.006801	0.005	0.005
Lower Lim.	0.004209	0.0008	0.0012	0.0017	0.004876	0.001	0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.005				
4/5/2019	<0.005				
9/26/2019	<0.005				
3/2/2020	<0.005				
4/1/2020	0.00082 (J)	0.0061			
6/17/2020		0.0031 (J)			
6/18/2020			0.0032 (J)	0.005 (J)	0.0021 (J)
9/17/2020	<0.005				
9/21/2020		0.0083		0.0059	
9/23/2020			0.001 (J)		0.00095 (J)
2/11/2021					0.0023 (J)
2/12/2021	0.001 (J)	0.0059			
2/15/2021				0.005	
3/12/2021					<0.005
3/17/2021	<0.005				
3/18/2021		0.0054 (J)			
3/19/2021				<0.005	
8/16/2021			0.0024 (J)		
8/18/2021		0.0058		0.0043 (J)	<0.005
8/19/2021	<0.005				
2/8/2022		0.0069		0.0072	<0.005
2/9/2022			0.0054		
2/10/2022	<0.005				
8/10/2022		<0.005	0.0045 (J)		<0.005
8/11/2022	<0.005			<0.005	
Mean	0.004256	0.005812	0.0033	0.005343	0.003621
Std. Dev.	0.001655	0.001495	0.001729	0.0009414	0.00177
Upper Lim.	0.005	0.007397	0.006198	0.006195	0.005
Lower Lim.	0.001	0.004228	0.0004025	0.003952	0.00095

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.2	0.0315 (J)	0.0841	0.0222 (J)			
5/24/2016					<0.2		
7/12/2016	0.0214	0.0372	0.0886	0.0221	0.0346		
9/1/2016	0.0208	0.0364	0.0934	0.0227	0.0336		
10/24/2016	0.0208	0.0326					
10/25/2016			0.0991	0.0225	0.0349		
12/7/2016	0.022	0.0301	0.101	0.0227			
12/8/2016					0.0339		
1/26/2017	0.0238	0.0287	0.105	0.0229	0.0293		
3/22/2017			0.11	0.0248			
3/23/2017	0.0244	0.0329			0.0313		
5/24/2017	0.0228	0.0283	0.106				
5/25/2017				0.0255	0.0336		
4/3/2018		0.019	0.099	0.025	0.028		
4/4/2018	0.021						
6/5/2018					0.03		
6/6/2018	0.022	0.022	0.11	0.028			
10/3/2018	0.02	0.025	0.11	0.028	0.032		
3/14/2019	0.019	0.021			0.029		
3/15/2019			0.13	0.029		0.09	0.044
4/4/2019		0.018	0.11			0.075	
4/5/2019	0.016			0.022	0.021		0.036
9/24/2019	0.021	0.019					
9/25/2019			0.11	0.025	0.03	0.066	
9/27/2019							0.028
3/2/2020							0.027
3/3/2020	0.018	0.018	0.12	0.026	0.026	0.058	
3/26/2020		0.016					
3/27/2020							0.025
3/30/2020	0.02		0.11				
3/31/2020				0.029	0.029		
4/1/2020						0.066	
6/17/2020						0.054	
9/15/2020					0.03		
9/16/2020				0.025			
9/17/2020		0.017	0.11				0.02
9/18/2020	0.019						
9/21/2020						0.049	
2/10/2021			0.11				
2/11/2021	0.02			0.025	0.03	0.044	
2/12/2021		0.014					
2/15/2021							0.017
3/16/2021		0.012					
3/17/2021	0.023		0.12				0.018
3/18/2021				0.027	0.031	0.047	
8/18/2021	0.018			0.022			
8/19/2021		0.01	0.1		0.031	0.042	0.018
2/8/2022		0.0098	0.1	0.021	0.02	0.033	0.014
2/9/2022	0.017						
8/10/2022			0.1	0.027	0.026		
8/11/2022	0.017	0.015				0.037	0.014
Mean	0.02395	0.02243	0.1057	0.02475	0.03292	0.05508	0.02373

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	0.01713	0.008543	0.01039	0.002482	0.01547	0.01672	0.009519
Upper Lim.	0.0228	0.02702	0.1113	0.02608	0.0336	0.0682	0.03166
Lower Lim.	0.019	0.01785	0.1002	0.02341	0.028	0.04196	0.01579

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	0.082				
4/5/2019	0.061				
9/26/2019	0.064				
3/2/2020	0.06				
4/1/2020	0.065	0.027			
6/17/2020		0.024			
6/18/2020			0.044	0.029	0.19
9/17/2020	0.057				
9/21/2020		0.024		0.028	
9/23/2020			0.038		0.14
2/11/2021					0.14
2/12/2021	0.056	0.025			
2/15/2021				0.026	
3/12/2021					0.12
3/17/2021	0.058				
3/18/2021		0.029			
3/19/2021				0.032	
8/16/2021			0.035		
8/18/2021		0.025		0.025	0.12
8/19/2021	0.05				
2/8/2022		0.02		0.023	0.11
2/9/2022			0.04		
2/10/2022	0.05				
8/10/2022		0.02 (J)	0.046		0.11
8/11/2022	0.05			0.022 (J)	
Mean	0.05936	0.02425	0.0406	0.02643	0.1329
Std. Dev.	0.009223	0.003105	0.00445	0.003505	0.02812
Upper Lim.	0.06705	0.02754	0.04806	0.03059	0.1643
Lower Lim.	0.05168	0.02096	0.03314	0.02227	0.1039

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.0005	<0.0005	<0.0005	<0.0005			
5/24/2016					0.00278 (J)		
7/12/2016	0.0005 (J)	<0.0005	<0.0005	<0.0005	0.0032		
9/1/2016	0.0005 (J)	<0.0005	<0.0005	<0.0005	0.0034		
10/24/2016	0.0005 (J)	<0.0005					
10/25/2016			<0.0005	<0.0005	0.0034		
12/7/2016	0.0006 (J)	<0.0005	<0.0005	<0.0005			
12/8/2016					0.0033		
1/26/2017	0.0005 (J)	<0.0005	<0.0005	<0.0005	0.0034		
3/22/2017			<0.0005	<0.0005			
3/23/2017	0.0006 (J)	<0.0005			0.0036		
5/24/2017	0.0005 (J)	<0.0005	<0.0005				
5/25/2017				<0.0005	0.0036		
4/3/2018		<0.0005	<0.0005	<0.0005	<0.0005		
4/4/2018	<0.0005						
3/14/2019	0.00043 (J)	<0.0005			0.0026 (J)		
3/15/2019			<0.0005	<0.0005		<0.0005	<0.0005
4/4/2019		<0.0005	<0.0005			<0.0005	
4/5/2019	0.00027 (J)			<0.0005	0.0022 (J)		<0.0005
9/24/2019	0.00044 (J)	<0.0005					
9/25/2019			<0.0005	<0.0005	0.0031	<0.0005	
9/27/2019							<0.0005
3/2/2020							<0.0005
3/3/2020	0.00043 (J)	<0.0005	<0.0005	<0.0005	0.0029 (J)	<0.0005	
3/26/2020		<0.0005					
3/27/2020							<0.0005
3/30/2020	0.00043 (J)		<0.0005				
3/31/2020				<0.0005	0.003		
4/1/2020						<0.0005	
6/17/2020						<0.0005	
9/15/2020					0.0033		
9/16/2020				<0.0005			
9/17/2020		<0.0005	<0.0005				4.7E-05 (J)
9/18/2020	0.00043 (J)						
9/21/2020						<0.0005	
2/10/2021			<0.0005				
2/11/2021	0.00044 (J)			6.7E-05 (J)	0.0036	<0.0005	
2/12/2021		<0.0005					
2/15/2021							6.2E-05 (J)
3/16/2021		<0.0005					
3/17/2021	0.00058		<0.0005				8.2E-05 (J)
3/18/2021				4.8E-05 (J)	0.0038	<0.0005	
8/18/2021	0.00039 (J)			<0.0005			
8/19/2021		<0.0005	<0.0005		0.0034	<0.0005	7E-05 (J)
2/8/2022		<0.0005	<0.0005	<0.0005	0.0026	<0.0005	7.9E-05 (J)
2/9/2022	0.00056						
8/10/2022			<0.0005	6E-05 (J)	0.0032		
8/11/2022	0.00039 (J)	<0.0005				<0.0005	<0.0005
Mean	0.0004745	0.0005	0.0005	0.0004338	0.003044	0.0005	0.0003036
Std. Dev.	7.977E-05	0	0	0.0001618	0.0007204	0	0.0002258
Upper Lim.	0.0005198	0.0005	0.0005	0.0005	0.003411	0.0005	0.0005
Lower Lim.	0.0004292	0.0005	0.0005	6.7E-05	0.002807	0.0005	6.2E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.0005				
4/5/2019	<0.0005				
9/26/2019	<0.0005				
3/2/2020	<0.0005				
4/1/2020	<0.0005	0.0011 (J)			
6/17/2020		0.00099 (J)			
6/18/2020			0.00015 (J)	0.00032 (J)	0.00012 (J)
9/17/2020	<0.0005				
9/21/2020		0.0009 (J)		0.0004 (J)	
9/23/2020			<0.0005		<0.0005
2/11/2021					<0.0005
2/12/2021	<0.0005	0.001 (J)			
2/15/2021				0.0006 (J)	
3/12/2021					<0.0005
3/17/2021	<0.0005				
3/18/2021		0.0011			
3/19/2021				0.00061	
8/16/2021			<0.0005		
8/18/2021		0.00097		0.00061	<0.0005
8/19/2021	<0.0005				
2/8/2022		0.00087 (J)		0.0007 (J)	<0.0005
2/9/2022			6.5E-05 (J)		
2/10/2022	<0.0005				
8/10/2022		0.0008	<0.0005		<0.0005
8/11/2022	<0.0005			0.00066 (J)	
Mean	0.0005	0.0009663	0.000343	0.0005571	0.0004457
Std. Dev.	0	0.0001061	0.0002171	0.000141	0.0001436
Upper Lim.	0.0005	0.001079	0.0005	0.0007247	0.0005
Lower Lim.	0.0005	0.0008538	6.5E-05	0.0003896	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/11/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	0.000139 (J)	0.00271 (J)	<0.0005	<0.0005			
5/24/2016					<0.0005		
7/12/2016	<0.0005	0.0019	<0.0005	<0.0005	0.0022		
9/1/2016	0.0001 (J)	0.0017	<0.0005	<0.0005	0.0024		
10/24/2016	0.0002 (J)	0.0018					
10/25/2016			<0.0005	<0.0005	0.0022		
12/7/2016	0.0001 (J)	0.0018	<0.0005	<0.0005			
12/8/2016					0.0024		
1/26/2017	0.0001 (J)	0.0013	<0.0005	<0.0005	0.0025		
3/22/2017			<0.0005	7E-05 (J)			
3/23/2017	0.0002 (J)	0.002			0.0025		
5/24/2017	0.0001 (J)	0.0041	<0.0005				
5/25/2017				<0.0005	0.0027		
4/3/2018		0.0022	<0.0005	<0.0005	0.0022		
4/4/2018	<0.0005						
6/5/2018					0.0022		
6/6/2018	0.00012 (J)	0.0021	<0.0005	<0.0005			
10/3/2018	0.0001 (J)	0.0026	<0.0005	<0.0005	0.0027		
3/14/2019	<0.0005	0.0024			0.0019		
3/15/2019			<0.0005	<0.0005		<0.0005	0.00082 (J)
4/4/2019		0.0018	<0.0005			<0.0005	
4/5/2019	7.9E-05 (J)			<0.0005	0.0017		0.00064 (J)
9/24/2019	<0.0005	0.0014 (J)					
9/25/2019			<0.0005	<0.0005	0.0023 (J)	<0.0005	
9/27/2019							0.0014 (J)
3/2/2020							0.0021 (J)
3/3/2020	<0.0005	0.0015 (J)	<0.0005	<0.0005	0.0021 (J)	<0.0005	
3/26/2020		0.0016 (J)					
3/27/2020							0.0019 (J)
3/30/2020	<0.0005		<0.0005				
3/31/2020				<0.0005	0.0017 (J)		
4/1/2020						<0.0005	
6/17/2020						<0.0005	
9/15/2020					0.0019 (J)		
9/16/2020				<0.0005			
9/17/2020		0.0016 (J)	<0.0005				0.0021 (J)
9/18/2020	<0.0005						
9/21/2020						<0.0005	
2/10/2021			<0.0005				
2/11/2021	<0.0005			<0.0005	0.0016 (J)	<0.0005	
2/12/2021		0.0014 (J)					
2/15/2021							0.002 (J)
3/16/2021		0.0011					
3/17/2021	<0.0005		<0.0005				0.0022
3/18/2021				<0.0005	0.0015	<0.0005	
8/18/2021	0.00013 (J)			<0.0005			
8/19/2021		0.0012	<0.0005		0.0014	<0.0005	0.0021
2/8/2022		0.0011	<0.0005	<0.0005	0.00076	<0.0005	0.002
2/9/2022	<0.0005						
8/10/2022			<0.0005	<0.0005	0.0017		
8/11/2022	<0.0005	0.00095				<0.0005	0.002
Mean	0.0003122	0.00183	0.0005	0.0004805	0.001957	0.0005	0.001751

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	0.0001943	0.0006973	0	9.168E-05	0.0005719	0	0.0005477
Upper Lim.	0.0005	0.002134	0.0005	0.0005	0.002264	0.0005	0.002113
Lower Lim.	0.00012	0.001451	0.0005	7E-05	0.00165	0.0005	0.001658

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.0005				
4/5/2019	<0.0005				
9/26/2019	<0.0005				
3/2/2020	<0.0005				
4/1/2020	<0.0005	0.00022 (J)			
6/17/2020		0.00021 (J)			
6/18/2020			<0.0005	0.00053 (J)	<0.0005
9/17/2020	0.0006 (J)				
9/21/2020		0.00016 (J)		0.001 (J)	
9/23/2020			<0.0005		<0.0005
2/11/2021					<0.0005
2/12/2021	0.00045 (J)	0.00017 (J)			
2/15/2021				0.0017 (J)	
3/12/2021					<0.0005
3/17/2021	0.00057				
3/18/2021		0.00019 (J)			
3/19/2021				0.0018	
8/16/2021			0.00023 (J)		
8/18/2021		0.00017 (J)		0.0015	<0.0005
8/19/2021	0.00012 (J)				
2/8/2022		0.00013 (J)		0.0015	<0.0005
2/9/2022			0.00072		
2/10/2022	0.00024 (J)				
8/10/2022		<0.0005	0.00041 (J)		<0.0005
8/11/2022	0.00021 (J)			0.0013 (J)	
Mean	0.0004264	0.0002188	0.000472	0.001333	0.0005
Std. Dev.	0.0001593	0.0001172	0.0001771	0.0004407	0
Upper Lim.	0.0004778	0.0005	0.0007001	0.001856	0.0005
Lower Lim.	0.000163	0.00013	9.987E-05	0.0008094	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.005	<0.005	<0.005	<0.005			
5/24/2016					<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005		
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005		
10/24/2016	<0.005	<0.005					
10/25/2016			<0.005	<0.005	<0.005		
12/7/2016	<0.005	<0.005	<0.005	<0.005			
12/8/2016					<0.005		
1/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005		
3/22/2017			0.0021 (J)	<0.005			
3/23/2017	<0.005	0.0005 (J)			0.0005 (J)		
5/24/2017	<0.005	<0.005	<0.005				
5/25/2017				<0.005	<0.005		
4/3/2018		<0.005	<0.005	<0.005	<0.005		
4/4/2018	<0.005						
3/14/2019	<0.005	<0.005			<0.005		
3/15/2019			<0.005	<0.005		<0.005	<0.005
4/4/2019		<0.005	<0.005			<0.005	
4/5/2019	<0.005			<0.005	<0.005		<0.005
9/24/2019	<0.005	0.00041 (J)					
9/25/2019			<0.005	<0.005	<0.005	<0.005	
9/27/2019							0.0004 (J)
3/2/2020							<0.005
3/3/2020	0.00042 (J)	<0.005	0.00071 (J)	0.0018 (J)	0.0004 (J)	<0.005	
3/26/2020		<0.005					
3/27/2020							<0.005
3/30/2020	0.00066 (J)		0.0004 (J)				
3/31/2020				<0.005	<0.005		
4/1/2020						<0.005	
6/17/2020						0.00057 (J)	
9/15/2020					0.00063 (J)		
9/16/2020				<0.005			
9/17/2020		<0.005	<0.005				<0.005
9/18/2020	<0.005						
9/21/2020					<0.005		
2/10/2021			<0.005				
2/11/2021	<0.005			0.00074 (J)	<0.005	<0.005	
2/12/2021		<0.005					
2/15/2021							<0.005
3/16/2021		0.0012 (J)					
3/17/2021	<0.005		<0.005				0.00075 (J)
3/18/2021				0.00069 (J)	<0.005	0.00074 (J)	
8/18/2021	<0.005			<0.005			
8/19/2021		<0.005	<0.005		<0.005	<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/9/2022	<0.005						
8/10/2022			<0.005	<0.005	<0.005		
8/11/2022	<0.005	<0.005				<0.005	<0.005
Mean	0.004554	0.004355	0.00441	0.004411	0.004326	0.004276	0.004195
Std. Dev.	0.001373	0.00158	0.001469	0.001452	0.001645	0.001692	0.001792
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00066	0.0012	0.0021	0.0018	0.00063	0.00074	0.00075

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.005				
4/5/2019	<0.005				
9/26/2019	<0.005				
3/2/2020	<0.005				
4/1/2020	0.00086 (J)	0.00069 (J)			
6/17/2020		<0.005			
6/18/2020			0.0059 (J)	<0.005	0.0048 (J)
9/17/2020	<0.005				
9/21/2020		<0.005		0.00079 (J)	
9/23/2020			<0.005		<0.005
2/11/2021					0.0014 (J)
2/12/2021	<0.005	<0.005			
2/15/2021				<0.005	
3/12/2021					<0.005
3/17/2021	0.00083 (J)				
3/18/2021		<0.005			
3/19/2021				0.00083 (J)	
8/16/2021			<0.005		
8/18/2021		<0.005		<0.005	<0.005
8/19/2021	<0.005				
2/8/2022		<0.005		<0.005	<0.005
2/9/2022			<0.005		
2/10/2022	<0.005				
8/10/2022		<0.005	<0.005		<0.005
8/11/2022	<0.005			<0.005	
Mean	0.004245	0.004461	0.00518	0.003803	0.004457
Std. Dev.	0.001681	0.001524	0.0004025	0.002045	0.00135
Upper Lim.	0.005	0.005	0.0059	0.005	0.005
Lower Lim.	0.00086	0.00069	0.005	0.00079	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.005	0.0419 (J)	<0.005	0.0167			
5/24/2016					0.17 (J)		
7/12/2016	0.0232	0.0393	<0.005	0.0148		0.168	
9/1/2016	0.0248	0.045	<0.005	0.0151		0.18	
10/24/2016	0.0253	0.0557					
10/25/2016			<0.005	0.0141		0.188	
12/7/2016	0.0269	0.0536	<0.005	0.0141			
12/8/2016						0.206	
1/26/2017	0.0294	0.055	<0.005	0.0154		0.195	
3/22/2017			<0.005	0.0169			
3/23/2017	0.0311	0.0715				0.223	
5/24/2017	0.0279	0.0446	<0.005				
5/25/2017				0.0154		0.209	
4/3/2018		0.032	<0.005	0.016		0.19	
4/4/2018	0.025						
6/5/2018						0.19	
6/6/2018	0.027	0.032	<0.005	0.018			
10/3/2018	0.023	0.051	<0.005	0.016		0.19	
3/14/2019	0.025	0.038				0.16	
3/15/2019			<0.005	0.017		<0.005	0.028
4/4/2019		0.035	0.00028 (J)			0.00034 (J)	
4/5/2019	0.021			0.016		0.14	0.022
9/24/2019	0.026	0.022					
9/25/2019			<0.005	0.015		0.18	<0.005
9/27/2019							0.035
3/2/2020							0.043
3/3/2020	0.029	0.03	0.00037 (J)	0.016		0.15	<0.005
3/26/2020		0.022					
3/27/2020							0.025
3/30/2020	0.028		<0.005				
3/31/2020				0.016		0.16	
4/1/2020						<0.005	
6/17/2020						<0.005	
9/15/2020						0.16	
9/16/2020				0.013			
9/17/2020		0.026	<0.005				0.029
9/18/2020	0.027						
9/21/2020						<0.005	
2/10/2021			<0.005				
2/11/2021	0.033			0.012		0.14	<0.005
2/12/2021		0.019					
2/15/2021							0.038
3/16/2021		0.018					
3/17/2021	0.034		<0.005				0.039
3/18/2021				0.012		0.14	<0.005
8/18/2021	0.033			0.009			
8/19/2021		0.011	<0.005			0.15	<0.005
2/8/2022		0.0081	<0.005	0.0066		0.16	<0.005
2/9/2022	0.038						0.034
8/10/2022			<0.005	0.012		0.16	
8/11/2022	0.037	0.0088				<0.005	0.015
Mean	0.02725	0.03452	0.004575	0.01441	0.1731	0.004612	0.03

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	0.006677	0.01693	0.001376	0.00273	0.02367	0.001345	0.008591
Upper Lim.	0.0309	0.04361	0.005	0.01588	0.1858	0.005	0.03716
Lower Lim.	0.02482	0.02544	0.00037	0.01333	0.1604	0.00034	0.02284

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	0.0013 (J)				
4/5/2019	0.0012 (J)				
9/26/2019	0.00098 (J)				
1/22/2020		0.052			
3/2/2020	0.0011 (J)				
4/1/2020	0.0011 (J)	0.058			
6/17/2020		0.053			
6/18/2020			0.011	0.091	0.0015 (J)
9/17/2020	0.00096 (J)				
9/21/2020		0.047		0.084	
9/23/2020			0.0056		<0.005
2/11/2021					0.00048 (J)
2/12/2021	0.001 (J)	0.055			
2/15/2021				0.095	
3/12/2021					<0.005
3/17/2021	0.0011 (J)				
3/18/2021		0.057			
3/19/2021				0.1	
8/16/2021			0.0093		
8/18/2021		0.054		0.085	<0.005
8/19/2021	0.00089 (J)				
2/8/2022		0.048		0.09	<0.005
2/9/2022			0.0065		
2/10/2022	0.001 (J)				
8/10/2022		0.046	0.0066		<0.005
8/11/2022	0.00088 (J)			0.082	
Mean	0.001046	0.05222	0.0078	0.08957	0.003854
Std. Dev.	0.0001284	0.004353	0.002262	0.006451	0.001979
Upper Lim.	0.001153	0.05642	0.01159	0.09723	0.005
Lower Lim.	0.0009394	0.04802	0.00401	0.08191	0.00048

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	0.568 (U)	0.171 (U)		0.618 (U)			
5/24/2016					1.82		
7/1/2016			0 (U)				
7/12/2016	1.31	0.611 (U)	0.182 (U)	0.867	1.76		
9/1/2016	1.64	0.766 (U)	1.23	0.857 (U)	1.51		
10/24/2016	1.88	0.969					
10/25/2016			1.05 (U)	1.11 (U)	2.69		
12/7/2016	1.35	0.302 (U)	1.11 (U)	0.964 (U)			
12/8/2016					2.21		
1/26/2017	2.1	0.626 (U)	1.29 (U)	0.612 (U)	2.26		
3/22/2017			0.453 (U)	0.437 (U)			
3/23/2017	1.17	0.662 (U)				1.81	
5/24/2017	1 (U)	0.202 (U)	1.05 (U)				
5/25/2017				1.21 (U)	1.63		
4/3/2018		0.384 (U)	0.783 (U)	0.409 (U)	2.53		
4/4/2018	1.72						
6/5/2018					1.91		
6/6/2018	1.31 (U)	1.32 (U)	0.595 (U)	0.772 (U)			
10/3/2018	1.48	0.858 (U)	1.03 (U)	1.08 (U)	2.22		
3/14/2019	1.5	0.462 (U)			1.37 (U)		
3/15/2019			0.591 (U)	0.917 (U)		0.972 (U)	0.977
4/4/2019		0.512 (U)	0.96 (U)			0.791 (U)	
4/5/2019	1.43 (U)			1.07 (U)	2.22		1.06 (U)
9/24/2019	1.17	0.582 (U)					
9/25/2019			0.643 (U)	1.54	2.77	0.751 (U)	
9/27/2019							1.44 (U)
3/2/2020							0.872 (U)
3/3/2020	1.84	1.43	1.32 (U)	1.33	2.35	1.94	
3/26/2020		0.855 (U)					
3/27/2020							0.96 (U)
3/30/2020	1.08 (U)		0.288 (U)				
3/31/2020				0.591 (U)	2.7		
4/1/2020						0.758 (U)	
6/17/2020						0.691 (U)	
9/15/2020					1.65		
9/16/2020				0.295 (U)			
9/17/2020		0.395 (U)	1.1 (U)				0.0879 (U)
9/18/2020	1.8 (U)						
9/21/2020						0.436 (U)	
2/10/2021			0.773 (U)				
2/11/2021	0.73 (U)			0.831 (U)	1.11	0.317 (U)	
2/12/2021		1.65					
2/15/2021							0.215 (U)
3/16/2021		0.801 (U)					
3/17/2021	1.84		0.228 (U)				0.981 (U)
3/18/2021				0.856 (U)	1.63	0.5 (U)	
8/18/2021	0.858 (U)			0.548 (U)			
8/19/2021		0.527 (U)	0.668 (U)		1.45	1.17	0.689 (U)
2/8/2022		0.0242 (U)	0.168 (U)	1 (U)	0.93 (U)	0.463 (U)	0.0657 (U)
2/9/2022	0.346 (U)						
8/11/2022	1.31	0.656 (U)	0.249 (U)	0.361 (U)	1.46	0.691 (U)	0.789 (U)
Mean	1.338	0.6711	0.7164	0.8307	1.909	0.79	0.7397

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	0.4525	0.4039	0.4079	0.3255	0.5203	0.433	0.4397
Upper Lim.	1.581	0.8879	0.9354	1.005	2.188	1.074	1.106
Lower Lim.	1.095	0.4543	0.4974	0.656	1.629	0.4765	0.3733

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/1/2022 2:41 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	0.872 (U)				
4/5/2019	0.932 (U)				
9/26/2019	1.25				
3/2/2020	0.964 (U)				
4/1/2020	0.914 (U)	2.57			
6/17/2020		1.43 (U)			
6/18/2020			1.36	2.02	1.79
9/17/2020	0.32 (U)				
9/21/2020		2.53		3.85	
9/23/2020			0.563 (U)		0.98 (U)
2/11/2021					0.12 (U)
2/12/2021	1.21 (U)	2.26			
2/15/2021				1.52	
3/12/2021					0.578 (U)
3/17/2021	0.579 (U)				
3/18/2021		0.733 (U)			
3/19/2021				0.524 (U)	
8/16/2021			0.693 (U)		
8/18/2021		1.77		1.67	1.31
8/19/2021	0.69 (U)				
2/8/2022		0.967 (U)		1.38	0.345 (U)
2/9/2022			0.297 (U)		
2/10/2022	0.919 (U)				
8/11/2022	0.39 (U)	1.52	1.05	1.71	0.505 (U)
Mean	0.8218	1.723	0.7926	1.811	0.804
Std. Dev.	0.3002	0.6905	0.4173	1.013	0.5885
Upper Lim.	1.072	2.454	1.492	3.014	1.503
Lower Lim.	0.5716	0.9906	0.09339	0.6072	0.1049

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.1	<0.1	0.038 (J)	<0.1			
5/24/2016					<0.1		
7/12/2016	0.2 (J)	0.09 (J)	0.26 (J)	0.09 (J)	0.54		
9/1/2016	0.08 (J)	0.22 (J)	0.42	0.03 (J)	0.49		
10/24/2016	0.04 (J)	0.07 (J)					
10/25/2016			0.25 (J)	0.07 (J)	0.58		
12/7/2016	0.11 (J)	0.23 (J)	0.23 (J)	0.54			
12/8/2016					0.63		
1/26/2017	0.13 (J)	<0.1	0.02 (J)	<0.1	0.71		
3/22/2017			0.3	0.07 (J)			
3/23/2017	0.28 (J)	0.12 (J)			0.57		
5/24/2017	0.32	0.31	0.46				
5/25/2017				0.42	0.54		
10/4/2017	0.52	0.6	<0.1	0.93	0.95		
4/3/2018		<0.1	<0.1	<0.1	0.33		
4/4/2018	<0.1						
6/5/2018					0.66		
6/6/2018	0.25 (J)	0.17 (J)	<0.1	0.23 (J)			
10/3/2018	0.21 (J)	<0.1	<0.1	<0.1	0.32		
3/14/2019	0.24 (J)	<0.1			0.88		
3/15/2019			<0.1	<0.1		<0.1	<0.1
4/4/2019		0.066 (J)	<0.1			0.1 (J)	
4/5/2019	0.66			0.16 (J)	0.37		0.13 (J)
9/24/2019	0.053 (J)	0.12 (J)					
9/25/2019			<0.1	0.081 (J)	0.73	<0.1	
9/27/2019							0.28 (J)
3/2/2020							<0.1
3/3/2020	<0.1	0.064 (J)	<0.1	<0.1	0.34	<0.1	
3/26/2020		<0.1					
3/27/2020							<0.1
3/30/2020	0.092 (J)		0.059 (J)				
3/31/2020				<0.1	0.45		
4/1/2020						<0.1	
6/17/2020						<0.1	
9/15/2020					0.31		
9/16/2020				0.058 (J)			
9/17/2020		<0.1	<0.1				<0.1
9/18/2020	<0.1						
9/21/2020						<0.1	
2/10/2021			0.21				
2/11/2021	0.059 (J)			0.058 (J)	0.71	<0.1	
2/12/2021		0.053 (J)					
2/15/2021							<0.1
3/16/2021		<0.1					
3/17/2021	0.076 (J)		<0.1				<0.1
3/18/2021				0.057 (J)	0.64	<0.1	
8/18/2021	<0.1			0.062 (J)			
8/19/2021		<0.1	<0.1		0.31	<0.1	<0.1
2/8/2022		<0.1	<0.1	0.055 (J)	0.19	<0.1	<0.1
2/9/2022	0.053 (J)						
8/10/2022			0.054 (J)	0.086 (J)	0.3		
8/11/2022	0.085 (J)	0.097 (J)				0.056 (J)	0.063 (J)

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Mean	0.1721	0.1396	0.1522	0.1607	0.5065	0.09633	0.1157
Std. Dev.	0.1548	0.1169	0.1169	0.2063	0.2172	0.0127	0.05652
Upper Lim.	0.1966	0.12	0.23	0.16	0.6201	0.1	0.13
Lower Lim.	0.07897	0.097	0.059	0.062	0.3929	0.1	0.1

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.1				
4/5/2019	0.14 (J)				
9/26/2019	0.16 (J)				
1/22/2020		0.18 (J)			
3/2/2020	<0.1				
4/1/2020	<0.1	0.15 (J)			
6/17/2020		0.25			
6/18/2020			0.082 (J)	0.053 (J)	0.1
9/17/2020	<0.1				
9/21/2020		0.14		<0.1	
9/23/2020			<0.1		0.065 (J)
2/11/2021					0.077 (J)
2/12/2021	<0.1	0.25			
2/15/2021				0.093 (J)	
3/12/2021					0.061 (J)
3/17/2021	<0.1				
3/18/2021		0.4			
3/19/2021				0.082 (J)	
8/16/2021			0.066 (J)		
8/18/2021		0.16		0.052 (J)	0.05 (J)
8/19/2021	<0.1				
2/8/2022		0.14		0.065 (J)	0.055 (J)
2/9/2022			0.051 (J)		
2/10/2022	<0.1				
8/10/2022		0.21	0.081 (J)		0.084 (J)
8/11/2022	0.06 (J)			0.088 (J)	
Mean	0.1055	0.2089	0.076	0.07614	0.07029
Std. Dev.	0.02544	0.08373	0.01845	0.01945	0.01768
Upper Lim.	0.14	0.2803	0.09123	0.09925	0.09129
Lower Lim.	0.1	0.1377	0.04877	0.05303	0.04929

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	0.00182 (J)	<0.001	<0.001	<0.001			
5/24/2016					0.00154 (J)		
7/12/2016	0.0015 (J)	<0.001	<0.001	<0.001	0.0012 (J)		
9/1/2016	0.0016 (J)	<0.001	<0.001	<0.001	0.0014 (J)		
10/24/2016	0.0016 (J)	<0.001					
10/25/2016			<0.001	<0.001	0.0015 (J)		
12/7/2016	0.0018 (J)	<0.001	<0.001	<0.001			
12/8/2016					0.0017 (J)		
1/26/2017	0.002 (J)	<0.001	0.0001 (J)	<0.001	0.0013 (J)		
3/22/2017			0.0002 (J)	0.0001 (J)			
3/23/2017	0.0019 (J)	0.001 (J)			0.001 (J)		
5/24/2017	0.0016 (J)	0.0001 (J)	0.0001 (J)				
5/25/2017				<0.001	0.0012 (J)		
4/3/2018		<0.001	<0.001	<0.001	<0.001		
4/4/2018	<0.001						
3/14/2019	0.0014 (J)	<0.001			0.0015 (J)		
3/15/2019			<0.001	<0.001		<0.001	<0.001
4/4/2019		7.2E-05 (J)	0.00016 (J)			<0.001	
4/5/2019	0.0012 (J)			7.6E-05 (J)	0.0015 (J)		<0.001
9/24/2019	0.0013 (J)	0.0002 (J)					
9/25/2019			<0.001	8.9E-05 (J)	0.0015 (J)	<0.001	
9/27/2019							0.0001 (J)
3/2/2020							9.4E-05 (J)
3/3/2020	0.0017 (J)	5.3E-05 (J)	0.00016 (J)	0.00013 (J)	0.0013 (J)	4.7E-05 (J)	
3/26/2020		<0.001					
3/27/2020							<0.001
3/30/2020	0.0015 (J)		7.3E-05 (J)				
3/31/2020				7.7E-05 (J)	0.0014 (J)		
4/1/2020						4.8E-05 (J)	
6/17/2020						<0.001	
9/15/2020					0.0014 (J)		
9/16/2020				6.5E-05 (J)			
9/17/2020		<0.001	7.8E-05 (J)				<0.001
9/18/2020	0.0012 (J)						
9/21/2020						<0.001	
2/10/2021			9.4E-05 (J)				
2/11/2021	0.0015 (J)			0.00018 (J)	0.00098 (J)	0.00066 (J)	
2/12/2021		<0.001					
2/15/2021							3.6E-05 (J)
3/16/2021		<0.001					
3/17/2021	0.0019		5.8E-05 (J)				<0.001
3/18/2021				8.8E-05 (J)	0.00096 (J)	7.3E-05 (J)	
8/18/2021	0.0015			<0.001			
8/19/2021		<0.001	<0.001		0.0013	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001	0.0009 (J)	<0.001	<0.001
2/9/2022	0.0014						
8/10/2022			<0.001	<0.001	0.0011		
8/11/2022	<0.001	<0.001				<0.001	<0.001
Mean	0.001521	0.0008213	0.0006012	0.0006403	0.001284	0.0007357	0.0007482
Std. Dev.	0.0002869	0.0003677	0.0004535	0.0004526	0.0002318	0.0004211	0.0004316
Upper Lim.	0.001684	0.001	0.001	0.001	0.001416	0.001	0.001
Lower Lim.	0.001358	0.001	0.0001	8.9E-05	0.001152	4.8E-05	9.4E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.001				
4/5/2019	<0.001				
9/26/2019	<0.001				
3/2/2020	5.1E-05 (J)				
4/1/2020	<0.001	0.0017 (J)			
6/17/2020		0.0017 (J)			
6/18/2020			0.00087 (J)	0.00016 (J)	0.0017 (J)
9/17/2020	0.00016 (J)				
9/21/2020		0.0017 (J)		0.00099 (J)	
9/23/2020			<0.001		8.2E-05 (J)
2/11/2021					0.00039 (J)
2/12/2021	<0.001	0.0018 (J)			
2/15/2021				0.00055 (J)	
3/12/2021					<0.001
3/17/2021	<0.001				
3/18/2021		0.0017			
3/19/2021				0.00066 (J)	
8/16/2021			<0.001		
8/18/2021		0.0016		<0.001	<0.001
8/19/2021	<0.001				
2/8/2022		0.0014		<0.001	<0.001
2/9/2022			<0.001		
2/10/2022	<0.001				
8/10/2022		<0.001	<0.001		<0.001
8/11/2022	<0.001			<0.001	
Mean	0.0008374	0.001575	0.000974	0.0007657	0.0008817
Std. Dev.	0.0003627	0.0002605	5.814E-05	0.0003265	0.0005175
Upper Lim.	0.001	0.001785	0.001	0.001	0.0017
Lower Lim.	0.00016	0.001384	0.00087	0.00016	8.2E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.03	<0.03	<0.03	<0.03			
5/24/2016					0.0142 (J)		
7/12/2016	<0.03	<0.03	0.0037 (J)	<0.03	0.0141 (J)		
9/1/2016	<0.03	0.0021 (J)	0.0033 (J)	<0.03	0.0158 (J)		
10/24/2016	<0.03	<0.03					
10/25/2016			0.0029 (J)	<0.03	0.016 (J)		
12/7/2016	<0.03	<0.03	0.0029 (J)	<0.03			
12/8/2016					0.0144 (J)		
1/26/2017	<0.03	<0.03	0.0028 (J)	<0.03	0.0136 (J)		
3/22/2017			0.0025 (J)	<0.03			
3/23/2017	<0.03	0.0016 (J)			0.0151 (J)		
5/24/2017	<0.03	0.0029 (J)	0.0029 (J)				
5/25/2017				0.0011 (J)	0.0154 (J)		
4/3/2018		0.0026 (J)	0.0028 (J)	<0.03	0.013 (J)		
4/4/2018	<0.03						
6/5/2018					0.013 (J)		
6/6/2018	<0.03	0.0013 (J)	0.0031 (J)	<0.03			
10/3/2018	<0.03	0.0017 (J)	0.0026 (J)	<0.03	0.015 (J)		
3/14/2019	<0.03	<0.03			0.011 (J)		
3/15/2019			0.0041 (J)	0.0011 (J)		0.025 (J)	0.002 (J)
4/4/2019		0.0009 (J)	0.0032 (J)			0.019 (J)	
4/5/2019	<0.03			0.00074 (J)	0.0084 (J)		0.0013 (J)
9/24/2019	<0.03	0.0012 (J)					
9/25/2019			0.0038 (J)	0.0011 (J)	0.015 (J)	0.024 (J)	
9/27/2019							0.0013 (J)
3/2/2020							0.0015 (J)
3/3/2020	<0.03	0.0084 (J)	0.0047 (J)	0.0012 (J)	0.012 (J)	0.026 (J)	
3/26/2020		0.0061 (J)					
3/27/2020							0.0013 (J)
3/30/2020	<0.03		0.0041 (J)				
3/31/2020				0.0009 (J)	0.012 (J)		
4/1/2020						0.026 (J)	
6/17/2020						0.023 (J)	
9/15/2020					0.014 (J)		
9/16/2020				0.0012 (J)			
9/17/2020		0.0094 (J)	0.0043 (J)				0.0011 (J)
9/18/2020	<0.03						
9/21/2020						0.022 (J)	
2/10/2021			0.0038 (J)				
2/11/2021	<0.03			0.0013 (J)	0.011 (J)	0.021 (J)	
2/12/2021		0.036					
2/15/2021							0.0011 (J)
3/16/2021		0.032					
3/17/2021	<0.03		0.0048 (J)				0.0012 (J)
3/18/2021				0.0014 (J)	0.013 (J)	0.026 (J)	
8/18/2021	<0.03			0.0012 (J)			
8/19/2021		0.0058 (J)	0.0042 (J)		0.013 (J)	0.022 (J)	0.0012 (J)
2/8/2022		0.014 (J)	0.0034 (J)	0.0014 (J)	0.01 (J)	0.022 (J)	0.0011 (J)
2/9/2022	<0.03						
8/11/2022	<0.03	0.0025 (J)				0.022 (J)	0.0011 (J)
Mean	0.03	0.01402	0.004757	0.01489	0.01329	0.02317	0.001291
Std. Dev.	0	0.01355	0.005824	0.01477	0.001993	0.00225	0.0002663

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Upper Lim.	0.03	0.03	0.0042	0.03	0.01439	0.02493	0.0015
Lower Lim.	0.03	0.0021	0.0029	0.0011	0.01219	0.0214	0.0011

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	0.0028 (J)				
4/5/2019	0.0021 (J)				
9/26/2019	0.0023 (J)				
3/2/2020	0.0025 (J)				
4/1/2020	0.0024 (J)	0.0011 (J)			
6/17/2020		0.00097 (J)			
6/18/2020			0.0021 (J)	0.0046 (J)	0.038 (J)
9/17/2020	0.0021 (J)				
9/21/2020		0.00086 (J)		0.0036 (J)	
9/23/2020			0.0011 (J)		0.031
2/11/2021					0.034
2/12/2021	0.0023 (J)	0.0011 (J)			
2/15/2021				0.0043 (J)	
3/12/2021					0.035
3/17/2021	0.0024 (J)				
3/18/2021		0.0012 (J)			
3/19/2021				0.0045 (J)	
8/16/2021			0.001 (J)		
8/18/2021		0.00097 (J)		0.0036 (J)	0.03
8/19/2021	0.0022 (J)				
2/8/2022		0.001 (J)		0.0039 (J)	0.029 (J)
2/9/2022			0.0022 (J)		
2/10/2022	0.0029 (J)				
8/11/2022	0.002 (J)			<0.03	
Mean	0.002364	0.001029	0.0016	0.007786	0.03283
Std. Dev.	0.0002838	0.0001123	0.0006377	0.009804	0.00343
Upper Lim.	0.0026	0.001162	0.003048	0.03	0.03755
Lower Lim.	0.002127	0.0008952	0.0001522	0.0036	0.02812

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002			
5/24/2016					<0.0002		
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002		6E-05 (J)	
10/24/2016	<0.0002	<0.0002					
10/25/2016			<0.0002	<0.0002	4E-05 (J)		
12/7/2016	<0.0002	<0.0002	<0.0002	<0.0002			
12/8/2016					<0.0002		
1/26/2017	<0.0002	<0.0002	<0.0002	<0.0002	8E-05 (J)		
3/22/2017			<0.0002	<0.0002			
3/23/2017	<0.0002	<0.0002			9E-05 (J)		
5/24/2017	<0.0002	<0.0002	<0.0002				
5/25/2017				<0.0002	8E-05 (J)		
4/3/2018		<0.0002	<0.0002	<0.0002	<0.0002		
4/4/2018	<0.0002						
3/14/2019	<0.0002	<0.0002			<0.0002		
3/15/2019			<0.0002	<0.0002		<0.0002	<0.0002
3/2/2020							<0.0002
3/3/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021			<0.0002				
2/11/2021	<0.0002			<0.0002	<0.0002	<0.0002	
2/12/2021		<0.0002					
2/15/2021							<0.0002
2/8/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/9/2022	<0.0002						
8/11/2022	<0.0002	<0.0002				<0.0002	0.00016 (J)
Mean	0.0002	0.0002	0.0002	0.0002	0.00015	0.0002	0.000192
Std. Dev.	0	0	0	0	6.683E-05	0	1.789E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.0002	0.0002	0.0002	0.0002	6E-05	0.0002	0.00016

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D
3/14/2019	<0.0002
3/2/2020	<0.0002
2/12/2021	<0.0002
2/10/2022	<0.0002
8/11/2022	0.00017 (J)
Mean	0.000194
Std. Dev.	1.342E-05
Upper Lim.	0.0002
Lower Lim.	0.00017

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.01	<0.01	<0.01	<0.01			
5/24/2016					<0.01		
7/12/2016	<0.01	0.0007 (J)	<0.01	<0.01	<0.01		
9/1/2016	<0.01	<0.01	<0.01	<0.01	<0.01		
10/24/2016	<0.01	<0.01					
10/25/2016			<0.01	<0.01	<0.01		
12/7/2016	<0.01	<0.01	<0.01	<0.01			
12/8/2016					<0.01		
1/26/2017	<0.01	<0.01	<0.01	<0.01	<0.01		
3/22/2017			<0.01	<0.01			
3/23/2017	<0.01	<0.01			<0.01		
5/24/2017	<0.01	<0.01	<0.01				
5/25/2017				<0.01	<0.01		
4/3/2018		<0.01	<0.01	<0.01	<0.01		
4/4/2018	<0.01						
3/14/2019	<0.01	<0.01			<0.01		
3/15/2019			<0.01	<0.01		0.045	<0.01
4/4/2019		<0.01	<0.01			0.033	
4/5/2019	<0.01			<0.01	<0.01		0.00013 (J)
9/24/2019	<0.01	<0.01					
9/25/2019			<0.01	<0.01	<0.01	0.038	
9/27/2019							<0.01
3/2/2020							<0.01
3/3/2020	<0.01	<0.01	<0.01	<0.01	<0.01	0.025	
3/26/2020		<0.01					
3/27/2020							<0.01
3/30/2020	<0.01		<0.01				
3/31/2020				<0.01	<0.01		
4/1/2020						0.024	
6/17/2020						0.019	
9/15/2020					<0.01		
9/16/2020				<0.01			
9/17/2020		<0.01	<0.01				<0.01
9/18/2020	<0.01						
9/21/2020						0.017	
2/10/2021			<0.01				
2/11/2021	<0.01			<0.01	<0.01	0.016	
2/12/2021		<0.01					
2/15/2021							<0.01
3/16/2021		<0.01					
3/17/2021	<0.01		<0.01				<0.01
3/18/2021				<0.01	<0.01	0.016	
8/18/2021	<0.01			<0.01			
8/19/2021		<0.01	<0.01		<0.01	0.018	<0.01
2/8/2022		<0.01	<0.01	<0.01	<0.01	0.016	<0.01
2/9/2022	<0.01						
8/11/2022	<0.01	<0.01				0.023	<0.01
Mean	0.01	0.009535	0.01	0.01	0.01	0.02417	0.009103
Std. Dev.	0	0.00208	0	0	0	0.009637	0.002976
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.03062	0.01
Lower Lim.	0.01	0.0007	0.01	0.01	0.01	0.017	0.01

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.01				
4/5/2019	0.0014 (J)				
9/26/2019	0.0025 (J)				
3/2/2020	0.003 (J)				
4/1/2020	0.0032 (J)	<0.01			
6/17/2020		<0.01			
6/18/2020			<0.01	<0.01	0.023
9/17/2020	0.0026 (J)				
9/21/2020		<0.01		<0.01	
9/23/2020			<0.01		0.015
2/11/2021					0.019
2/12/2021	0.0039 (J)	<0.01			
2/15/2021				<0.01	
3/12/2021					0.014
3/17/2021	0.0034 (J)				
3/18/2021		<0.01			
3/19/2021				<0.01	
8/16/2021			<0.01		
8/18/2021		<0.01		<0.01	0.0083 (J)
8/19/2021	0.0034 (J)				
2/8/2022		<0.01		<0.01	0.007 (J)
2/9/2022			<0.01		
2/10/2022	0.0034 (J)				
8/11/2022	0.0039 (J)			<0.01	
Mean	0.0037	0.01	0.01	0.01	0.01438
Std. Dev.	0.002207	0	0	0	0.006125
Upper Lim.	0.004878	0.01	0.01	0.01	0.0228
Lower Lim.	0.002246	0.01	0.01	0.01	0.005969

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	0.017	<0.005	<0.005	<0.005			
5/24/2016					<0.005		
7/12/2016	0.0146	<0.005	<0.005	<0.005	0.036		
9/1/2016	0.0137	<0.005	<0.005	0.0014 (J)	0.0347		
10/24/2016	0.0135	0.0012 (J)					
10/25/2016			<0.005	<0.005	0.0282		
12/7/2016	0.01 (J)	0.0041 (J)	<0.005	0.0023 (J)			
12/8/2016					0.0373		
1/26/2017	0.0214	<0.005	<0.005	<0.005	0.0385		
3/22/2017			<0.005	<0.005			
3/23/2017	0.0167	0.0016 (J)			0.0414		
5/24/2017	0.0083 (J)	<0.005	<0.005				
5/25/2017				<0.005	0.019		
4/3/2018		<0.005	<0.005	<0.005	0.029		
4/4/2018	0.012						
6/5/2018					0.038		
6/6/2018	0.014	<0.005	<0.005	<0.005			
10/3/2018	0.0056 (J)	<0.005	<0.005	<0.005	0.017		
3/14/2019	0.0048 (J)	<0.005			0.016		
3/15/2019			<0.005	<0.005		<0.005	<0.005
4/4/2019		0.00021 (J)	8.9E-05 (J)			<0.005	
4/5/2019	0.00091 (J)			9.3E-05 (J)	0.0018 (J)		<0.005
9/24/2019	0.0064 (J)	<0.005					
9/25/2019			<0.005	<0.005	0.02	<0.005	
9/27/2019							<0.005
3/2/2020							<0.005
3/3/2020	0.0045 (J)	<0.005	<0.005	<0.005	0.014	<0.005	
3/26/2020		<0.005					
3/27/2020							<0.005
3/30/2020	0.0049 (J)		<0.005				
3/31/2020				<0.005	0.019		
4/1/2020						<0.005	
6/17/2020						<0.005	
9/15/2020					0.059		
9/16/2020				<0.005			
9/17/2020		<0.005	<0.005				0.002 (J)
9/18/2020	0.0045 (J)						
9/21/2020						<0.005	
2/10/2021			<0.005				
2/11/2021	0.0072 (J)			<0.005	0.023	<0.005	
2/12/2021		<0.005					
2/15/2021							<0.005
3/16/2021		<0.005					
3/17/2021	0.01 (J)		<0.005				<0.005
3/18/2021				<0.005	0.019 (J)	<0.005	
8/18/2021	0.0077			<0.005			
8/19/2021		<0.005	<0.005		0.01	<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005	0.0082	<0.005	<0.005
2/9/2022	0.0047 (J)						
8/10/2022			<0.005	<0.005	0.0096		
8/11/2022	0.0037 (J)	<0.005				<0.005	<0.005
Mean	0.009369	0.004414	0.004777	0.004491	0.0238	0.005	0.004727

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	0.005321	0.001418	0.001047	0.001356	0.01418	0	0.0009045
Upper Lim.	0.01222	0.005	0.005	0.005	0.03142	0.005	0.005
Lower Lim.	0.006513	0.0041	8.9E-05	0.0023	0.01619	0.005	0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.005				
4/5/2019	<0.005				
9/26/2019	<0.005				
3/2/2020	<0.005				
4/1/2020	<0.005	0.011			
6/17/2020		0.014			
6/18/2020			0.0025 (J)	0.014	<0.005
9/17/2020	<0.005				
9/21/2020		0.041		0.037	
9/23/2020			<0.005		<0.005
2/11/2021					<0.005
2/12/2021	<0.005	0.011			
2/15/2021				0.01	
3/12/2021					<0.005
3/17/2021	<0.005				
3/18/2021		0.028			
3/19/2021				0.016 (J)	
8/16/2021			<0.005		
8/18/2021		0.014		0.014	<0.005
8/19/2021	<0.005				
2/8/2022		0.0078		0.0083	<0.005
2/9/2022			<0.005		
2/10/2022	<0.005				
8/10/2022		0.007 (J)	<0.005		<0.005
8/11/2022	<0.005			0.0089 (J)	
Mean	0.005	0.01673	0.0045	0.01546	0.005
Std. Dev.	0	0.01178	0.001118	0.009938	0
Upper Lim.	0.005	0.02786	0.005	0.02485	0.005
Lower Lim.	0.005	0.006421	0.0025	0.007435	0.005

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	0.000306 (J)	<0.001	<0.001	<0.001			
5/24/2016					<0.001		
7/12/2016	0.0003 (J)	<0.001	<0.001	0.0001 (J)	0.0002 (J)		
9/1/2016	0.0003 (J)	<0.001	<0.001	<0.001	<0.001		
10/24/2016	0.0004	<0.001					
10/25/2016			<0.001	<0.001	<0.001		
12/7/2016	0.0003 (J)	<0.001	<0.001	<0.001			
12/8/2016					<0.001		
1/26/2017	0.0003 (J)	<0.001	<0.001	<0.001	<0.001		
3/22/2017			<0.001	0.0001 (J)			
3/23/2017	0.0003 (J)	<0.001			0.0002 (J)		
5/24/2017	0.0003 (J)	<0.001	<0.001				
5/25/2017				0.0001 (J)	0.0002 (J)		
4/3/2018		<0.001	<0.001	<0.001	0.00014 (J)		
4/4/2018	0.00028 (J)						
6/5/2018					0.00016 (J)		
6/6/2018	0.00029 (J)	<0.001	<0.001	<0.001			
10/3/2018	0.00029 (J)	<0.001	<0.001	<0.001	<0.001		
3/14/2019	0.00028 (J)	<0.001			<0.001		
3/15/2019			<0.001	<0.001		<0.001	<0.001
4/4/2019		<0.001	<0.001			<0.001	
4/5/2019	0.00028 (J)			0.00013 (J)	0.00014 (J)		<0.001
9/24/2019	0.0003 (J)	<0.001					
9/25/2019			<0.001	0.00012 (J)	0.00019 (J)	<0.001	
9/27/2019							<0.001
3/2/2020							<0.001
3/3/2020	0.00026 (J)	<0.001	<0.001	0.00011 (J)	0.00013 (J)	<0.001	
3/26/2020		<0.001					
3/27/2020							<0.001
3/30/2020	0.00028 (J)		<0.001				
3/31/2020				0.00014 (J)	0.00015 (J)		
4/1/2020						<0.001	
6/17/2020						<0.001	
9/15/2020					0.00016 (J)		
9/16/2020				<0.001			
9/17/2020		<0.001	<0.001				<0.001
9/18/2020	0.00028 (J)						
9/21/2020						<0.001	
2/10/2021			<0.001				
2/11/2021	0.00026 (J)			<0.001	<0.001	<0.001	
2/12/2021		<0.001					
2/15/2021							<0.001
3/16/2021		<0.001					
3/17/2021	0.00034 (J)		<0.001				<0.001
3/18/2021				<0.001	0.00016 (J)	<0.001	
8/18/2021	0.00027 (J)			<0.001			
8/19/2021		<0.001	<0.001		0.0002 (J)	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2022	0.00025 (J)						
8/10/2022			<0.001	<0.001	<0.001		
8/11/2022	0.00024 (J)	<0.001				<0.001	<0.001
Mean	0.0002912	0.001	0.001	0.0007182	0.0005468	0.001	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Std. Dev.	3.261E-05	0	0	0.0004223	0.0004239	0	0
Upper Lim.	0.0003064	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0002737	0.001	0.001	0.00013	0.00016	0.001	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/1/2022 2:41 PM View: AIV

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019	<0.001				
4/5/2019	<0.001				
9/26/2019	<0.001				
3/2/2020	<0.001				
4/1/2020	<0.001	0.00029 (J)			
6/17/2020		0.00028 (J)			
6/18/2020			0.00015 (J)	0.00013 (J)	<0.001
9/17/2020	<0.001				
9/21/2020		0.00029 (J)		<0.001	
9/23/2020			<0.001		<0.001
2/11/2021					<0.001
2/12/2021	<0.001	0.00025 (J)			
2/15/2021				<0.001	
3/12/2021					<0.001
3/17/2021	<0.001				
3/18/2021		0.00031 (J)			
3/19/2021				<0.001	
8/16/2021			<0.001		
8/18/2021		0.0004 (J)		<0.001	<0.001
8/19/2021	<0.001				
2/8/2022		0.00025 (J)		<0.001	<0.001
2/9/2022			<0.001		
2/10/2022	<0.001				
8/10/2022		<0.001	<0.001		<0.001
8/11/2022	<0.001			<0.001	
Mean	0.001	0.0003838	0.00083	0.0008757	0.001
Std. Dev.	0	0.0002534	0.0003801	0.0003288	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.00025	0.00015	0.00013	0.001

FIGURE I.

Appendix IV Trend Test - Confidence Interval Exceedances - Significant Results

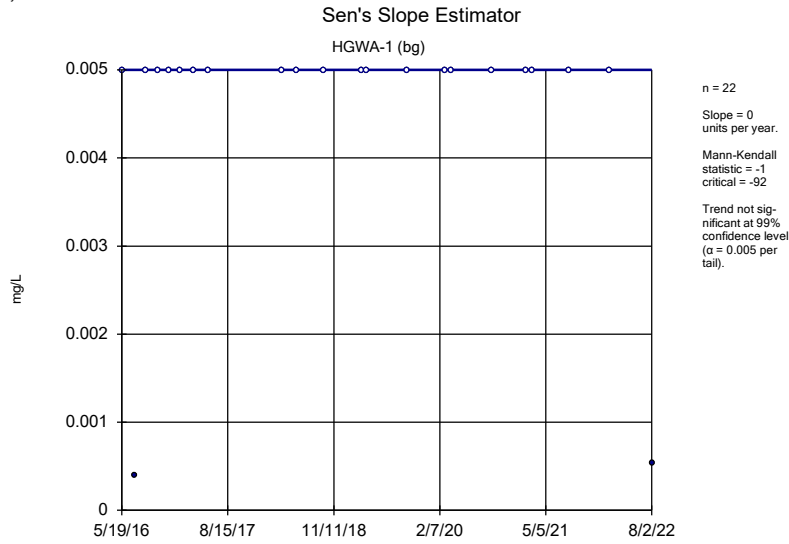
Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:53 AM

<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>
Cobalt (mg/L)	HGWA-4 (bg)	0	-96	-92	Yes	22	68.18	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.007213	-95	-92	Yes	22	0	n/a	n/a	0.01	NP

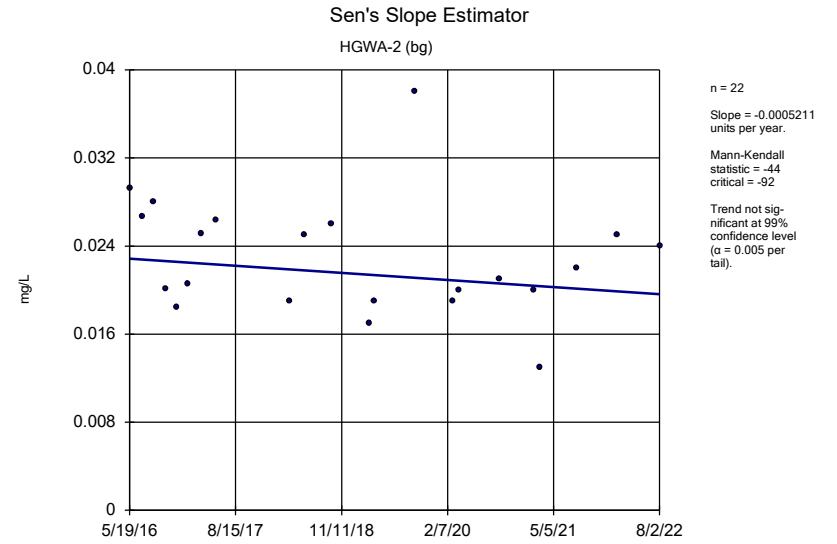
Appendix IV Trend Test - Confidence Interval Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 10/26/2022, 8:53 AM

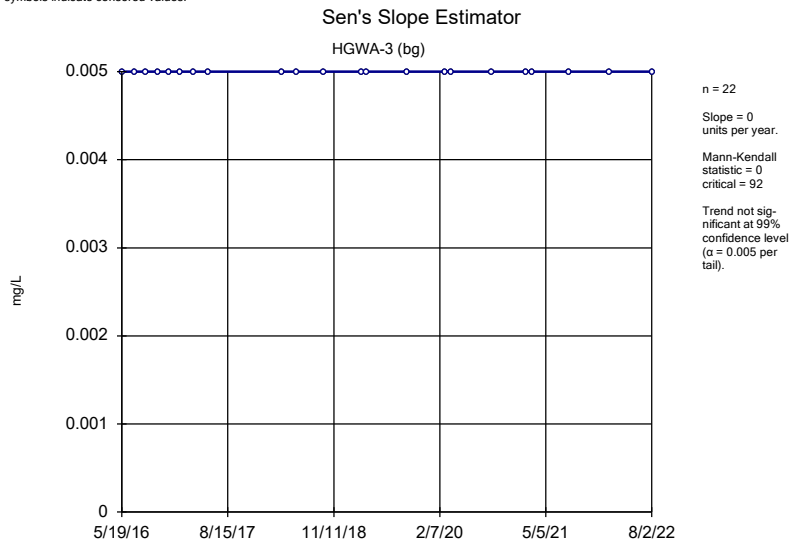
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-1 (bg)	0	-1	-92	No	22	90.91	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-2 (bg)	-0.0005211	-44	-92	No	22	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-3 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-4 (bg)	0	-96	-92	Yes	22	68.18	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-42D (bg)	0	4	25	No	9	88.89	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-43D (bg)	0	0	25	No	9	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-44D (bg)	0	0	25	No	9	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-5 (bg)	0	2	92	No	22	27.27	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-6 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.007213	-95	-92	Yes	22	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-33	-0.002625	-10	-25	No	9	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-35	-0.003059	-5	-18	No	7	0	n/a	n/a	0.01	NP



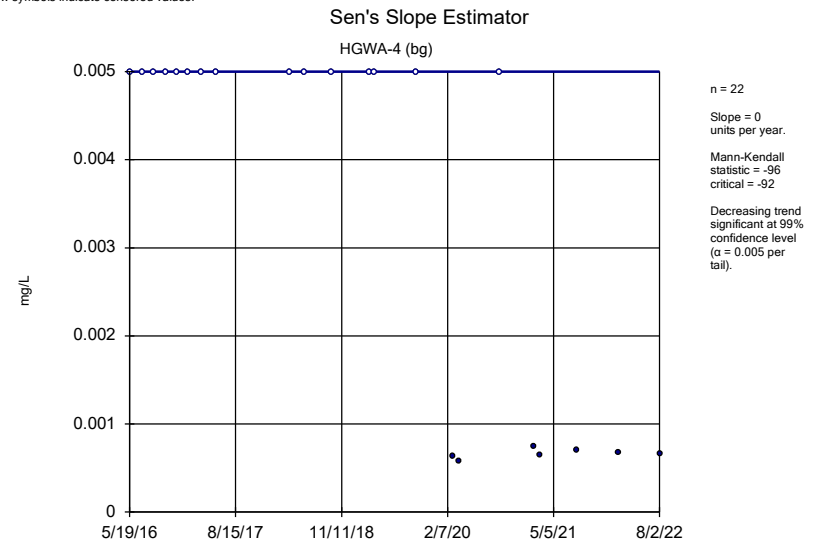
Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



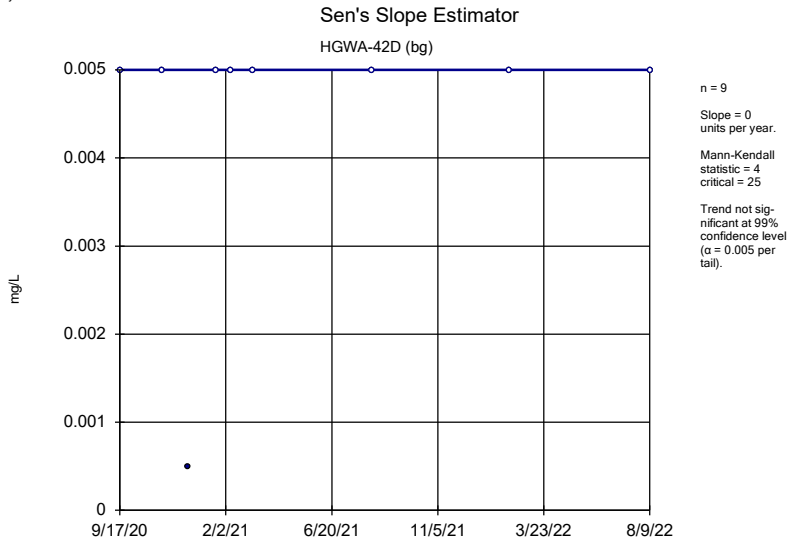
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Plant Hammond Client: Southern Company Data: Hammond AP-2



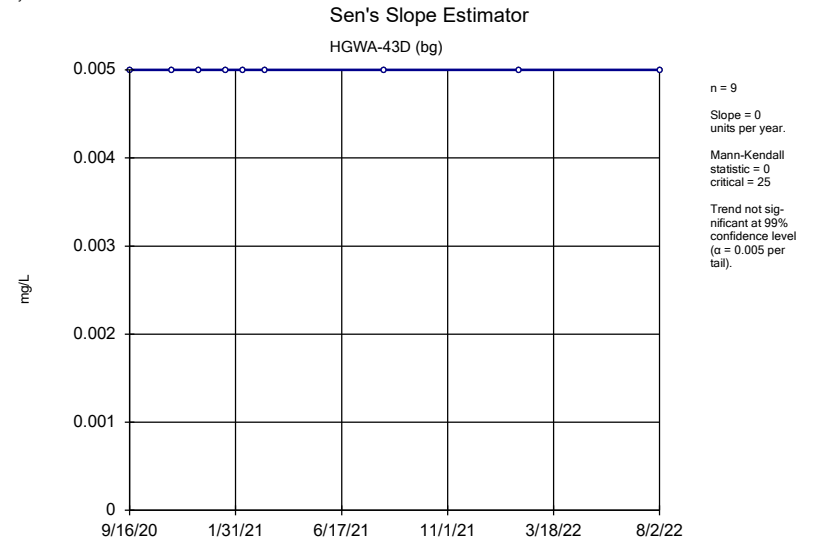
Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



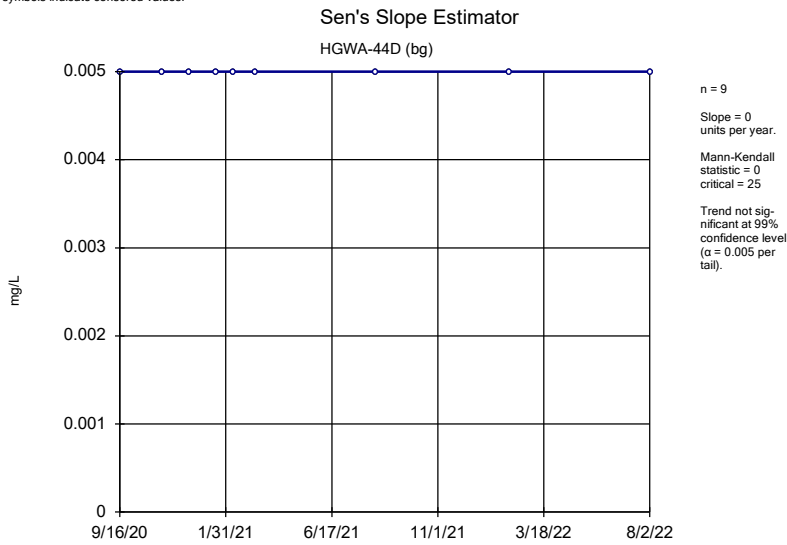
Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



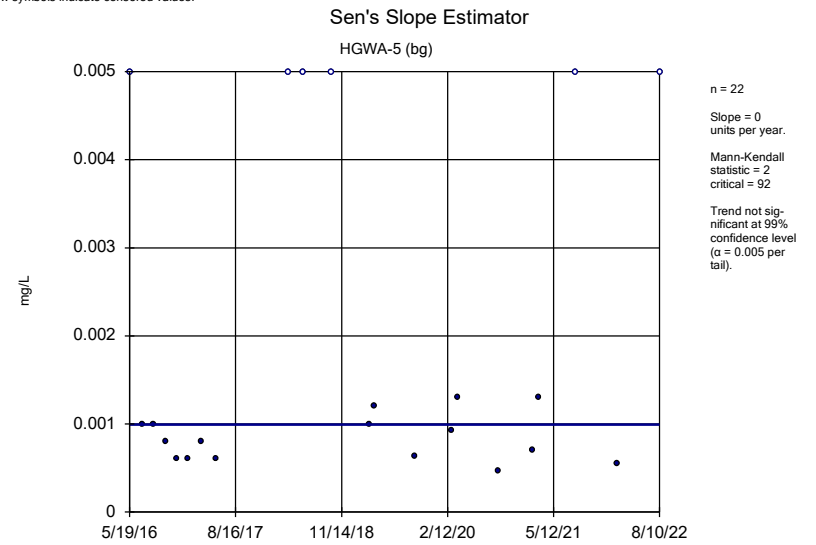
Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



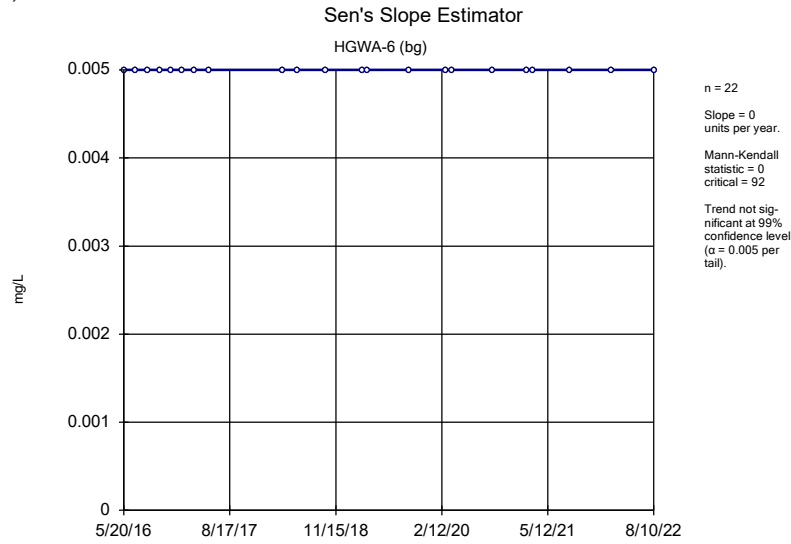
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Plant Hammond Client: Southern Company Data: Hammond AP-2



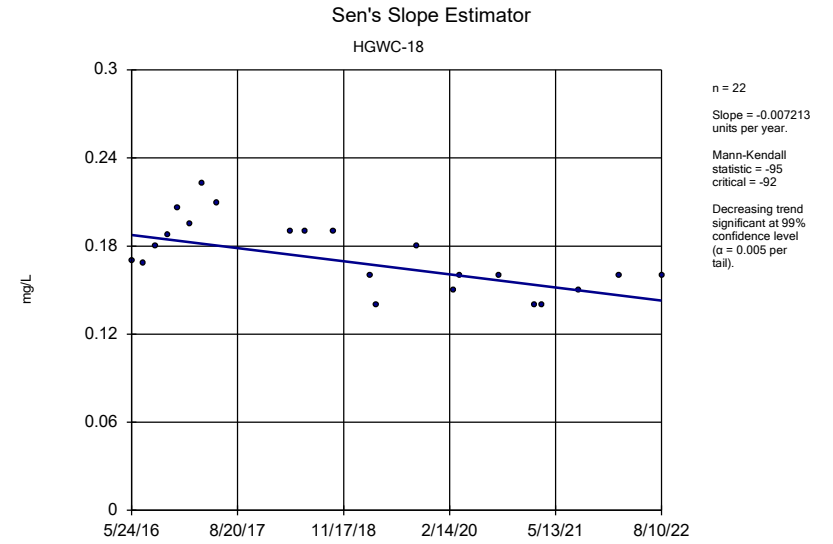
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Plant Hammond Client: Southern Company Data: Hammond AP-2



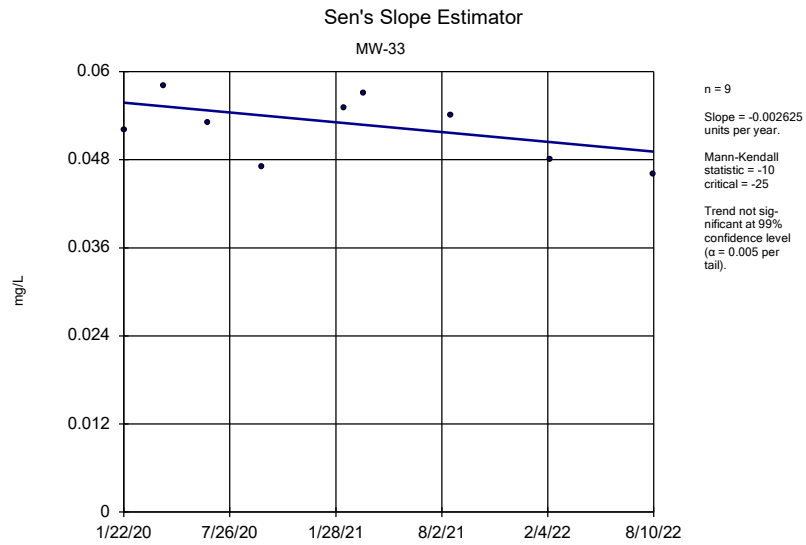
Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



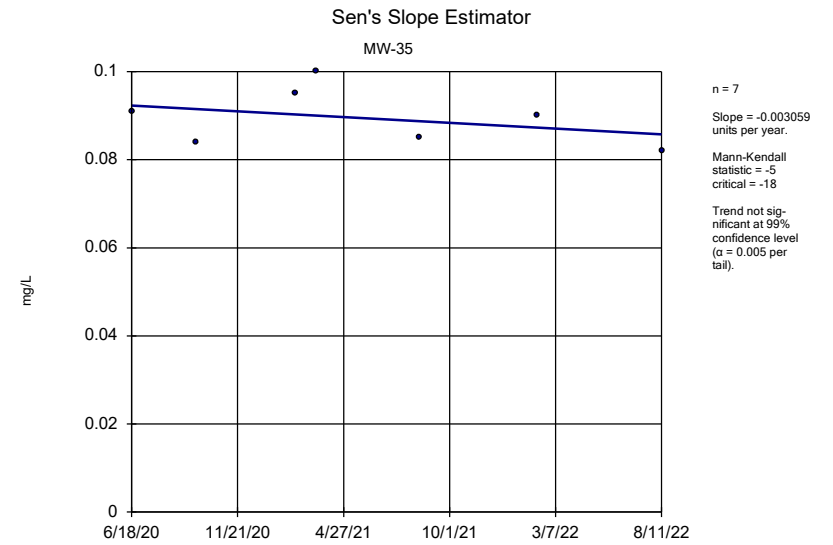
Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2



Constituent: Cobalt Analysis Run 10/26/2022 8:50 AM View: AIV Trend
Plant Hammond Client: Southern Company Data: Hammond AP-2

APPENDIX E

Potable Well Survey Report

Plant Hammond
5963 Alabama Hwy
Rome, GA 30165

Inquiry Number: 07178735.1r
November 15, 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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Physical Setting Source Records Searched	PSGR-1

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 HAMMOND
5963 ALABAMA HWY
ROME, GA 30165

TARGET PROPERTY COORDINATES

Latitude (North): 34.252719 - 34° 15' 9.79"
Longitude (West): 85.345991 - 85° 20' 45.57"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 652301.6
UTM Y (Meters): 3791219.8
Elevation: 587 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 34085-C3 ROCK MOUNTAIN, GA
Version Date: 1985

South Map: 34085-B3 LIVINGSTON, GA
Version Date: 1982

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).

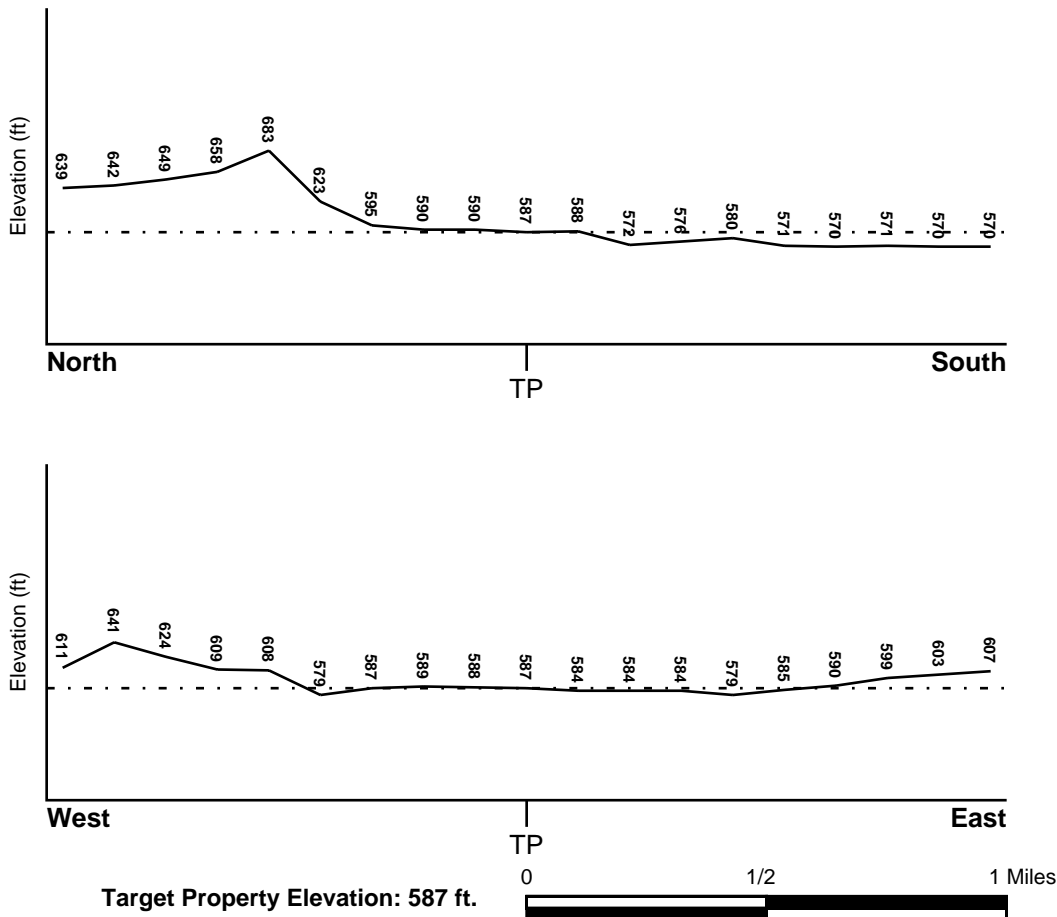
TOPOGRAPHIC INFORMATION

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 South

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>
13115C0163E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
13115C0164E	FEMA FIRM Flood data
13115C0252E	FEMA FIRM Flood data
13115C0251E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
ROCK MOUNTAIN	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:	Paleozoic
System:	Cambrian
Series:	Cambrian
Code:	C (decoded above as Era, System & Series)

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	ETOWAH
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
2	7 inches	38 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	38 inches	70 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
clay loam

Surficial Soil Types: silt loam
clay loam

Shallow Soil Types: sandy clay loam
clay loam
silty clay loam
silty clay

Deeper Soil Types: clay loam
stratified
clay
cherty - clay loam
weathered bedrock
loam

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000266956	1/8 - 1/4 Mile NNE
B3	USGS40000266955	1/8 - 1/4 Mile WNW
A5	USGS40000266957	1/4 - 1/2 Mile NE
C7	USGS40000266962	1/4 - 1/2 Mile NNW
C12	USGS40000266965	1/4 - 1/2 Mile NNW
E13	USGS40000266972	1/4 - 1/2 Mile North
E16	USGS40000266968	1/4 - 1/2 Mile NNE
F17	USGS40000266981	1/2 - 1 Mile North
G21	USGS40000266978	1 - 2 Miles NE
H22	USGS40000266969	1 - 2 Miles ENE
H25	USGS40000266975	1 - 2 Miles ENE
I27	USGS40000266890	1 - 2 Miles South
J29	USGS40000266958	1 - 2 Miles East
K31	USGS40000266966	1 - 2 Miles ENE
L33	USGS40000266908	1 - 2 Miles SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

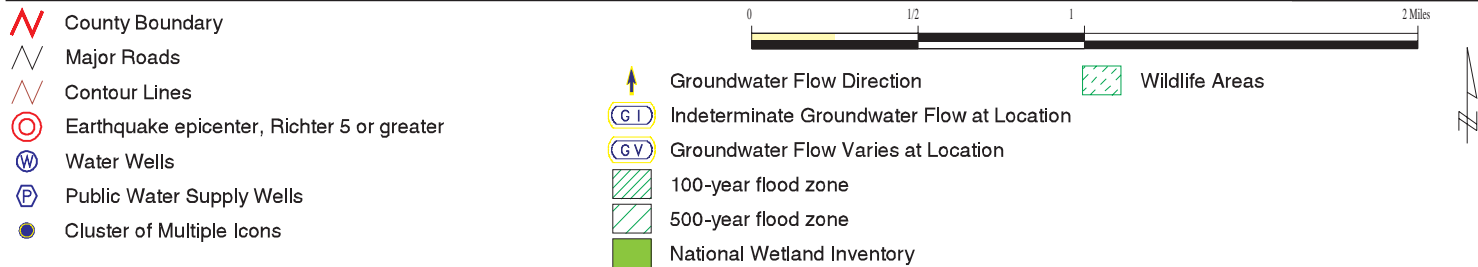
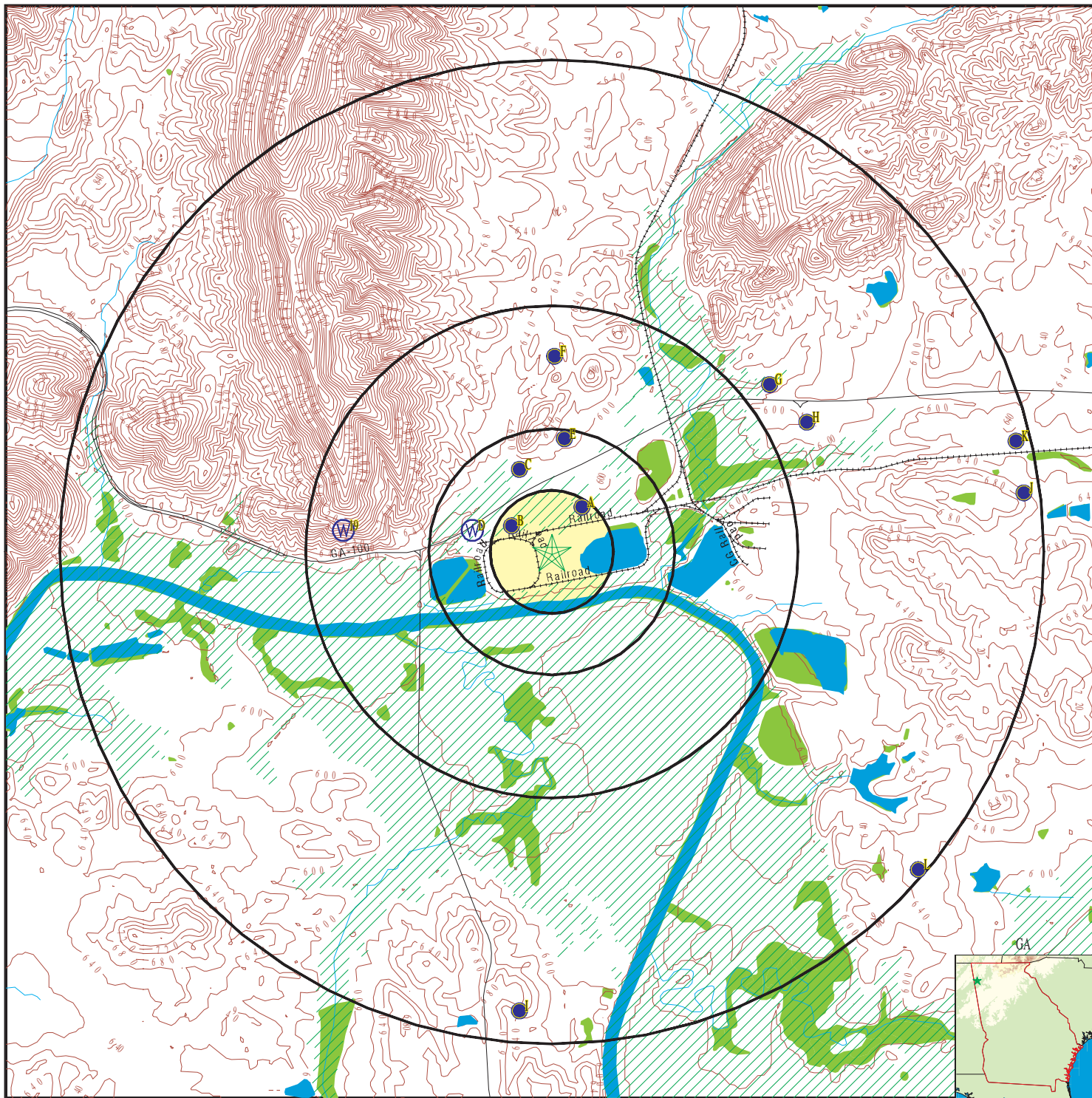
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	0000004172	1/8 - 1/4 Mile NNE
B4	0000004171	1/8 - 1/4 Mile WNW
A6	0000004173	1/4 - 1/2 Mile NE
C8	0000004175	1/4 - 1/2 Mile NNW
D9	0000004168	1/4 - 1/2 Mile WNW
D10	0000004169	1/4 - 1/2 Mile WNW
C11	0000004177	1/4 - 1/2 Mile NNW
E14	0000004181	1/4 - 1/2 Mile North
E15	0000004179	1/4 - 1/2 Mile NNE
F18	0000004188	1/2 - 1 Mile North
19	0000004170	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
G20	0000004185	1 - 2 Miles NE
H23	0000004180	1 - 2 Miles ENE
H24	0000004183	1 - 2 Miles ENE
I26	0000004144	1 - 2 Miles South
J28	0000004174	1 - 2 Miles East
K30	0000004178	1 - 2 Miles ENE
L32	0000004151	1 - 2 Miles SE

PHYSICAL SETTING SOURCE MAP - 07178735.1r



SITE NAME: Plant Hammond
 ADDRESS: 5963 Alabama Hwy
 Rome GA 30165
 LAT/LONG: 34.252719 / 85.345991

CLIENT: Geosyntec Consultants
 CONTACT: Christine Hug
 INQUIRY #: 07178735.1r
 DATE: November 15, 2022 11:09 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NNE
1/8 - 1/4 Mile
Higher

FED USGS USGS40000266956

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ35	Type:	Well
Description:	GA. POWER CO. WELL NO.3	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	195111
Well Depth:	405	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

A2
NNE
1/8 - 1/4 Mile
Higher

GA WELLS 0000004172

County code:	115	Well num:	03JJ35
Remarks:	GA. POWER CO. WELL NO.3	Lat:	341518
Lon:	0852041	Latlon datum:	NAD27
Alt:	590.0	Alt datum:	NGVD29
Depth:	405.0	Depth to casing:	22.0
Casing dia:	12.0	Casing matl:	Not Reported
Depth to top:	22.0	Depth to bot:	405.0
Opening type:	X	Constr date:	195111
Discharge:	Not Reported	Prim use:	Not Reported
Aquifer code:	371CNSG	Edr id:	0000004172

B3
WNW
1/8 - 1/4 Mile
Higher

FED USGS USGS40000266955

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ41	Type:	Well
Description:	GA POWER, PLANT HAMMOND	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	19511101
Well Depth:	411	Well Depth Units:	ft
Well Hole Depth:	411	Well Hole Depth Units:	ft

B4
WNW
1/8 - 1/4 Mile
Higher

GA WELLS 0000004171

County code:	115	Well num:	03JJ41
Remarks:	GA POWER, PLANT HAMMOND	Lat:	341515
Lon:	0852056	Latlon datum:	NAD27
Alt:	586.00	Alt datum:	NGVD29

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth: 411	Depth to casing: 44.5
Casing dia: 12.	Casing matl: Not Reported
Depth to top: 44.5	Depth to bot: 411.
Opening type: X	Constr date: 19551101
Discharge: 69.60	Prim use: N
Aquifer code: 371CNSG	Edr id: 0000004171

**A5
NE
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000266957

Organization ID: USGS-GA	Organization Name: USGS Georgia Water Science Center
Monitor Location: 03JJ40	Type: Well
Description: GA POWER CO, HAMMOND PLNT	HUC: 03150105
Drainage Area: Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported	Contrib Drainage Area Unts: Not Reported
Aquifer: Valley and Ridge aquifers	Formation Type: Conasauga Formation
Aquifer Type: Not Reported	Construction Date: 195111
Well Depth: 405	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: 1951-11
Feet below surface: 15	Feet to sea level: Not Reported
Note: Not Reported	

**A6
NE
1/4 - 1/2 Mile
Higher**

GA WELLS 0000004173

County code: 115	Well num: 03JJ40
Remarks: GA POWER CO, HAMMOND PLNT	Lat: 341520
Lon: 0852035	Latlon datum: NAD27
Alt: 590	Alt datum: NGVD29
Depth: 405	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: 195111
Discharge: 40.	Prim use: N
Aquifer code: 371CNSG	Edr id: 0000004173

**C7
NNW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000266962

Organization ID: USGS-GA	Organization Name: USGS Georgia Water Science Center
Monitor Location: 03JJ31	Type: Well
Description: RUTH BRIDGES	HUC: 03150105
Drainage Area: Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported	Contrib Drainage Area Unts: Not Reported
Aquifer: Valley and Ridge aquifers	Formation Type: Floyd Shale
Aquifer Type: Not Reported	Construction Date: 1949
Well Depth: 96	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:	1961-11-07
Feet below surface:	20	Feet to sea level:	Not Reported
Note:	Not Reported		

**C8
NNW
1/4 - 1/2 Mile
Higher**

GA WELLS 000004175

County code:	115	Well num:	03JJ31
Remarks:	RUTH BRIDGES	Lat:	341524
Lon:	0852052	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	96	Depth to casing:	20
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	20	Depth to bot:	96
Opening type:	X	Constr date:	1949
Discharge:	10	Prim use:	H
Aquifer code:	331FLYD	Edr id:	000004175

**D9
WNW
1/4 - 1/2 Mile
Higher**

GA WELLS 000004168

County code:	115	Well num:	03JJS2
Remarks:	JOE EARLY	Lat:	341514
Lon:	0852106	Latlon datum:	NAD27
Alt:	590	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:	208.3	Prim use:	Not Reported
Aquifer code:	Not Reported	Edr id:	000004168

**D10
WNW
1/4 - 1/2 Mile
Higher**

GA WELLS 000004169

County code:	115	Well num:	03JJS2
Remarks:	JOE EARLY	Lat:	341514
Lon:	0852106	Latlon datum:	NAD27
Alt:	590	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:	208.3	Prim use:	Not Reported
Aquifer code:	Not Reported	Edr id:	000004169

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C11
NNW
1/4 - 1/2 Mile
Higher

GA WELLS 0000004177

County code:	115	Well num:	03JJ14
Remarks:	MRS. ARTHUR L. LLOYD	Lat:	341530
Lon:	0852056	Latlon datum:	NAD27
Alt:	595	Alt datum:	NGVD29
Depth:	87	Depth to casing:	21
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	21	Depth to bot:	87
Opening type:	X	Constr date:	1948
Discharge:	16.7	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004177

C12
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000266965

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ14	Type:	Well
Description:	MRS. ARTHUR L. LLOYD	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1948
Well Depth:	87	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:	1948
Feet below surface:	4	Feet to sea level:	Not Reported
Note:	Not Reported		

E13
North
1/4 - 1/2 Mile
Higher

FED USGS USGS40000266972

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ13	Type:	Well
Description:	ARTHUR W. LLOYD	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1955
Well Depth:	72	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:	1955
Feet below surface:	15.0	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E14
North
1/4 - 1/2 Mile
Higher

GA WELLS 0000004181

County code:	115	Well num:	03JJ13
Remarks:	ARTHUR W. LLOYD	Lat:	341533
Lon:	0852047	Latlon datum:	NAD27
Alt:	625	Alt datum:	NGVD29
Depth:	72	Depth to casing:	28
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	28	Depth to bot:	72
Opening type:	X	Constr date:	1955
Discharge:	15	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004181

E15
NNE
1/4 - 1/2 Mile
Higher

GA WELLS 0000004179

County code:	115	Well num:	03JJ12
Remarks:	DEWEY H. WORTHY JR.	Lat:	341534
Lon:	0852038	Latlon datum:	NAD27
Alt:	600	Alt datum:	NGVD29
Depth:	60	Depth to casing:	55
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	55	Depth to bot:	60
Opening type:	X	Constr date:	196106
Discharge:	10	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004179

E16
NNE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000266968

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ12	Type:	Well
Description:	DEWEY H. WORTHY JR.	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	196106
Well Depth:	60	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:	1961-11-07
Feet below surface:	15.35	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
North
1/2 - 1 Mile
Higher

FED USGS USGS40000266981

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ15	Type:	Well
Description:	ROME CRAFT	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1958
Well Depth:	205	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:	1958
Feet below surface:	40.0	Feet to sea level:	Not Reported
Note:	Not Reported		

F18
North
1/2 - 1 Mile
Higher

GA WELLS 0000004188

County code:	115	Well num:	03JJ15
Remarks:	ROME CRAFT	Lat:	341551
Lon:	0852045	Latlon datum:	NAD27
Alt:	640	Alt datum:	NGVD29
Depth:	205	Depth to casing:	179
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	179	Depth to bot:	205
Opening type:	X	Constr date:	1958
Discharge:	6.5	Prim use:	C
Aquifer code:	331FLYD	Edr id:	0000004188

19
West
1/2 - 1 Mile
Higher

GA WELLS 0000004170

County code:	115	Well num:	03JJ47
Remarks:	A.A. LOONEY	Lat:	341514
Lon:	0852139	Latlon datum:	NAD27
Alt:	800	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:	Not Reported	Edr id:	0000004170

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

G20
NE
1 - 2 Miles
Lower

GA WELLS 0000004185

County code:	115	Well num:	03JJ16
Remarks:	C.W. AKRIDGE	Lat:	341545
Lon:	0851950	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	89	Depth to casing:	7
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	7	Depth to bot:	89
Opening type:	X	Constr date:	1941
Discharge:	5	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004185

G21
NE
1 - 2 Miles
Lower

FED USGS USGS40000266978

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ16	Type:	Well
Description:	C.W. AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1941
Well Depth:	89	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

H22
ENE
1 - 2 Miles
Higher

FED USGS USGS40000266969

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ17	Type:	Well
Description:	C.W. AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1945
Well Depth:	157	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

H23
ENE
1 - 2 Miles
Higher

GA WELLS 0000004180

County code:	115	Well num:	03JJ17
Remarks:	C.W. AKRIDGE	Lat:	341535
Lon:	0851942	Latlon datum:	NAD27
Alt:	605	Alt datum:	NGVD29

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth:	157	Depth to casing:	Not Reported
Casing dia:	6.0	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1945
Discharge:	5	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004180

**H24
ENE
1 - 2 Miles
Higher**

GA WELLS 0000004183

County code:	115	Well num:	03JJ18
Remarks:	C.H. JOHNSON	Lat:	341539
Lon:	0851939	Latlon datum:	NAD27
Alt:	600	Alt datum:	NGVD29
Depth:	96	Depth to casing:	35
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	35	Depth to bot:	96
Opening type:	X	Constr date:	1959
Discharge:	Not Reported	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004183

**H25
ENE
1 - 2 Miles
Higher**

FED USGS USGS40000266975

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ18	Type:	Well
Description:	C.H. JOHNSON	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1959
Well Depth:	96	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:	1961-11-07
Feet below surface:	33.28	Feet to sea level:	Not Reported
Note:	Not Reported		

**I26
South
1 - 2 Miles
Higher**

GA WELLS 0000004144

County code:	115	Well num:	03HH27
Remarks:	SIDNEY EVANS	Lat:	341332
Lon:	0852054	Latlon datum:	NAD27
Alt:	660.0	Alt datum:	NGVD29
Depth:	129.0	Depth to casing:	50.0
Casing dia:	6.0	Casing matl:	Not Reported
Depth to top:	50.0	Depth to bot:	129.0
Opening type:	X	Constr date:	1956
Discharge:	9.0	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004144

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

I27
South
1 - 2 Miles
Higher

FED USGS USGS40000266890

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03HH27	Type:	Well
Description:	SIDNEY EVANS	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1956
Well Depth:	129	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

J28
East
1 - 2 Miles
Higher

GA WELLS 0000004174

County code:	115	Well num:	03JJ20
Remarks:	JACK AKRIDGE	Lat:	341522
Lon:	0851845	Latlon datum:	NAD27
Alt:	670	Alt datum:	NGVD29
Depth:	65	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:	1955
Discharge:	11.7	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004174

J29
East
1 - 2 Miles
Higher

FED USGS USGS40000266958

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ20	Type:	Well
Description:	JACK AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1955
Well Depth:	65	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

K30
ENE
1 - 2 Miles
Higher

GA WELLS 0000004178

County code:	115	Well num:	03JJ19
Remarks:	C.W. AKRIDGE	Lat:	341533
Lon:	0851847	Latlon datum:	NAD27
Alt:	635	Alt datum:	NGVD29

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth:	359	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:	1945
Discharge:	Not Reported	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004178

K31
ENE
1 - 2 Miles
Higher

FED USGS USGS40000266966

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ19	Type:	Well
Description:	C.W. AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1945
Well Depth:	359	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:	1946-10-22
Feet below surface:	29.2	Feet to sea level:	Not Reported
Note:	Not Reported		

L32
SE
1 - 2 Miles
Higher

GA WELLS 0000004151

County code:	115	Well num:	03HH03
Remarks:	L.L. PUCKETT	Lat:	341402
Lon:	0851912	Latlon datum:	NAD27
Alt:	650.0	Alt datum:	NGVD29
Depth:	125.0	Depth to casing:	31.0
Casing dia:	6.0	Casing matl:	Not Reported
Depth to top:	31.0	Depth to bot:	125.0
Opening type:	X	Constr date:	1960
Discharge:	4.5	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004151

L33
SE
1 - 2 Miles
Higher

FED USGS USGS40000266908

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03HH03	Type:	Well
Description:	L.L. PUCKETT	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1960
Well Depth:	125	Well Depth Units:	ft
Well Hole Depth:	125	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1960
Feet below surface:	27.0	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for FLOYD County: 2

- 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 FLOYD COUNTY, GA

Number of sites tested: 14

<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	1.586 pCi/L	93%	7%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.767 pCi/L	100%	0%	0%

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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